

## **Appendix C      Air Quality /GHG Emissions Data**

## Appendices

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# 1. Criteria Air Pollutant and GHG Emissions Worksheets

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# Regional Construction Emissions Worksheet - Unmitigated

\*CalEEMod, Version 2020.4.0

	Distance (mi)	Percent of Haul Route (%)
Total Haul Route Length: <sup>1</sup>	75	100%
Haul Route in the MDAB: <sup>2</sup>	21.9	29%
Haul Route in the SoCAB:	53.1	71%

<sup>1</sup> Based on distance between the project site and Soil Safe of California at 12328 Hibiscus Road in the City of Adelanto.

<sup>2</sup> Based on the distance at the MDAB and SoCAB border along to the haul route to Soil Safe of California.

## Western Remediation Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2023 Summer</b>					
Onsite	Fugitive Dust					8.4034	4.3188
	Off-Road	2.6595	27.5242	18.2443	0.0381	1.266	1.1647
	<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>9.6694</b>	<b>5.4835</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0162	0.5607	0.2325	2.88E-03	0.0986	3.06E-02
	Worker	0.0507	0.0325	0.5512	1.70E-03	0.1865	0.0504
	<b>Total</b>	<b>0.0669</b>	<b>0.5932</b>	<b>0.7837</b>	<b>4.58E-03</b>	<b>0.2851</b>	<b>0.081</b>
<b>TOTAL</b>		<b>2.73</b>	<b>28.12</b>	<b>19.03</b>	<b>0.04</b>	<b>9.95</b>	<b>5.56</b>

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2023 Winter</b>					
Onsite	Fugitive Dust					8.4034	4.3188
	Off-Road	2.6595	27.5242	18.2443	0.0381	1.266	1.1647
	<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>9.6694</b>	<b>5.4835</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0156	0.5857	0.2399	2.88E-03	0.0986	3.06E-02
	Worker	0.0554	0.0356	0.5135	1.62E-03	0.1865	0.0504
	<b>Total</b>	<b>0.071</b>	<b>0.6214</b>	<b>0.7534</b>	<b>4.50E-03</b>	<b>0.2851</b>	<b>0.081</b>
<b>TOTAL</b>		<b>2.73</b>	<b>28.15</b>	<b>19.00</b>	<b>0.04</b>	<b>9.95</b>	<b>5.53</b>

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2023</b>					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	2.66	27.52	18.24	0.04	1.27	1.16
	<b>Total</b>	<b>2.66</b>	<b>27.52</b>	<b>18.24</b>	<b>0.04</b>	<b>9.67</b>	<b>5.48</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.59	0.24	0.00	0.10	0.03
	Worker	0.06	0.04	0.55	0.00	0.19	0.05
	<b>Total</b>	<b>0.07</b>	<b>0.62</b>	<b>0.78</b>	<b>0.00</b>	<b>0.29</b>	<b>0.08</b>
<b>TOTAL</b>		<b>2.73</b>	<b>28.15</b>	<b>19.03</b>	<b>0.04</b>	<b>9.95</b>	<b>5.56</b>

## Western Remediation Rough Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2023 Summer</b>					
Onsite	Fugitive Dust					3.9862	1.5698
	Off-Road	3.3217	34.5156	28.0512	0.0621	1.4245	1.3105
	<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>5.4107</b>	<b>2.8803</b>

Offsite	Hauling <sup>1</sup>	0.491352	37.7811456	11.0091168	0.19293	6.0249384	1.845402
	Vendor	0.0323	1.1215	0.465	5.75E-03	0.1972	6.12E-02
	Worker	0.0564	0.0361	0.6124	1.89E-03	0.2072	0.0561
	Total	0.580052	38.9387456	12.0865168	2.01E-01	6.4293384	1.962702
<b>TOTAL</b>		<b>3.90</b>	<b>73.45</b>	<b>40.14</b>	<b>0.26</b>	<b>11.84</b>	<b>4.84</b>

Onsite	<b>2023 Winter</b>						
	Fugitive Dust					3.9862	1.5698
	Off-Road	3.3217	34.5156	28.0512	0.0621	1.4245	1.3105
	Total	3.3217	34.5156	28.0512	0.0621	5.4107	2.8803

Offsite	Hauling <sup>1</sup>	0.4797408	39.2694324	11.0441628	0.19293	6.0251508	1.8456144
	Vendor	0.0312	1.1715	0.4798	5.76E-03	0.1973	6.12E-02
	Worker	0.0616	0.0396	0.5705	1.80E-03	0.2072	0.0561
	Total	0.5725408	40.4805324	12.0944628	2.00E-01	6.4296508	1.9629144
<b>TOTAL</b>		<b>3.89</b>	<b>75.00</b>	<b>40.15</b>	<b>0.26</b>	<b>11.84</b>	<b>2.94</b>

Onsite	<b>2023</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.99	1.57
	Off-Road	3.32	34.52	28.05	0.06	1.42	1.31
	Total	3.32	34.52	28.05	0.06	5.41	2.88

Offsite	Hauling	0.49	39.27	11.04	0.19	6.03	1.85
	Vendor	0.03	1.17	0.48	0.01	0.20	0.06
	Worker	0.06	0.04	0.61	0.00	0.21	0.06
	Total	0.58	40.48	12.09	0.20	6.43	1.96
<b>TOTAL</b>		<b>3.90</b>	<b>75.00</b>	<b>40.15</b>	<b>0.26</b>	<b>11.84</b>	<b>4.84</b>

<sup>1</sup> Proportioned based on the segment of the haul route within the South Coast Air Basin compared to the total haul route between the project site and Soil Safe of California at 12328 Hibiscus Road in the City of Adelanto.

**Phase 1 Site Preparation**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2023 Summer</b>						
	Fugitive Dust					8.4034	4.3188
	Off-Road	2.6595	27.5242	18.2443	0.0381	1.266	1.1647
	Total	2.6595	27.5242	18.2443	0.0381	9.6694	5.4835

Offsite	Hauling	0	0	0	0	0	0
	Vendor	8.08E-03	0.2804	0.1162	1.44E-03	0.0493	1.53E-02
	Worker	0.0507	0.0325	0.5512	1.70E-03	0.1865	0.0504
	Total	0.0588	0.3128	0.6674	3.14E-03	0.2358	0.0657
<b>TOTAL</b>		<b>2.72</b>	<b>27.84</b>	<b>18.91</b>	<b>0.04</b>	<b>9.91</b>	<b>5.55</b>

Onsite	<b>2023 Winter</b>						
	Fugitive Dust					8.4034	4.3188
	Off-Road	2.6595	27.5242	18.2443	0.0381	1.266	1.1647
	Total	2.6595	27.5242	18.2443	0.0381	9.6694	5.4835

Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.80E-03	0.2929	0.12	1.44E-03	0.0493	1.53E-02
	Worker	0.0554	0.0356	0.5135	1.62E-03	0.1865	0.0504
	Total	0.0632	0.3285	0.6334	3.06E-03	0.2358	0.0657
<b>TOTAL</b>		<b>2.72</b>	<b>27.85</b>	<b>18.88</b>	<b>0.04</b>	<b>9.91</b>	<b>5.53</b>

Onsite	<b>2023</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	2.66	27.52	18.24	0.04	1.27	1.16
	Total	2.66	27.52	18.24	0.04	9.67	5.48

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.29	0.12	0.00	0.05	0.02
	Worker	0.06	0.04	0.55	0.00	0.19	0.05
	Total	<b>0.06</b>	<b>0.33</b>	<b>0.67</b>	<b>0.00</b>	<b>0.24</b>	<b>0.07</b>
<b>TOTAL</b>		<b>2.72</b>	<b>27.85</b>	<b>18.91</b>	<b>0.04</b>	<b>9.91</b>	<b>5.55</b>

<b>2023 West Remediation Site Preparation &amp; P1 Site Preparation</b>	<b>5.45</b>	<b>56.00</b>	<b>37.94</b>	<b>0.08</b>	<b>19.86</b>	<b>11.11</b>
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<b>2023 West Remediation Grading &amp; P1 Site Preparation</b>	<b>6.62</b>	<b>102.85</b>	<b>59.06</b>	<b>0.30</b>	<b>21.75</b>	<b>10.39</b>
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**Phase 1 Rough Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2023 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	3.3217	34.5156	28.0512	0.0621	1.4245	1.3105
	Total	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>5.359</b>	<b>2.8725</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0162	0.5607	0.2325	2.88E-03	0.0986	3.06E-02
	Worker	0.0564	0.0361	0.6124	1.89E-03	0.2072	0.0561
	Total	<b>0.0725</b>	<b>0.5968</b>	<b>0.8449</b>	<b>4.77E-03</b>	<b>0.3058</b>	<b>0.0866</b>
<b>TOTAL</b>		<b>3.39</b>	<b>35.11</b>	<b>28.90</b>	<b>0.07</b>	<b>5.66</b>	<b>2.96</b>

Onsite	<b>2023 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	3.3217	34.5156	28.0512	0.0621	1.4245	1.3105
	Total	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>5.359</b>	<b>2.8725</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0156	0.5857	0.2399	2.88E-03	0.0986	3.06E-02
	Worker	0.0616	0.0396	0.5705	1.80E-03	0.2072	0.0561
	Total	<b>0.0772</b>	<b>0.6253</b>	<b>0.8104</b>	<b>4.68E-03</b>	<b>0.3058</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>3.40</b>	<b>35.14</b>	<b>28.86</b>	<b>0.07</b>	<b>5.66</b>	<b>2.93</b>

Onsite	<b>2023</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	3.32	34.52	28.05	0.06	1.42	1.31
	Total	<b>3.32</b>	<b>34.52</b>	<b>28.05</b>	<b>0.06</b>	<b>5.36</b>	<b>2.87</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.59	0.24	0.00	0.10	0.03
	Worker	0.06	0.04	0.61	0.00	0.21	0.06
	Total	<b>0.08</b>	<b>0.63</b>	<b>0.84</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>		<b>3.40</b>	<b>35.14</b>	<b>28.90</b>	<b>0.07</b>	<b>5.66</b>	<b>2.96</b>

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2024 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	3.2181	32.377	27.7228	0.0621	1.3354	1.2286
	Total	<b>3.2181</b>	<b>32.377</b>	<b>27.7228</b>	<b>0.0621</b>	<b>5.2699</b>	<b>2.7906</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0159	0.5591	0.2308	2.83E-03	0.0988	3.07E-02
	Worker	0.053	0.0324	0.5708	1.83E-03	0.2072	0.056
	Total	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.66E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>3.29</b>	<b>32.97</b>	<b>28.52</b>	<b>0.07</b>	<b>5.58</b>	<b>2.88</b>

Onsite	<b>2024 Winter</b>						
	Fugitive Dust				3.9345	1.562	
	Off-Road	3.2181	32.377	27.7228	0.0621	1.3354	1.2286
	Total	<b>3.2181</b>	<b>32.377</b>	<b>27.7228</b>	<b>0.0621</b>	<b>5.2699</b>	<b>2.7906</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0154	0.5841	0.238	2.83E-03	0.0988	3.07E-02
	Worker	0.0581	0.0356	0.5323	1.74E-03	0.2072	0.056
	Total	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.57E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>	<b>3.29</b>	<b>33.00</b>	<b>28.49</b>	<b>0.07</b>	<b>5.58</b>	<b>2.85</b>	

Onsite	<b>2024</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	3.22	32.38	27.72	0.06	1.34	1.23
	Total	<b>3.22</b>	<b>32.38</b>	<b>27.72</b>	<b>0.06</b>	<b>5.27</b>	<b>2.79</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.06	0.04	0.57	0.00	0.21	0.06
	Total	<b>0.07</b>	<b>0.62</b>	<b>0.80</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>	<b>3.29</b>	<b>33.00</b>	<b>28.52</b>	<b>0.07</b>	<b>5.58</b>	<b>2.88</b>	

**Phase 1 Utility Trenching**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2023 Summer</b>						
	Off-Road	0.5854	5.1948	6.6976	9.88E-03	0.3207	0.295
	Total	<b>0.5854</b>	<b>5.1948</b>	<b>6.6976</b>	<b>9.88E-03</b>	<b>0.3207</b>	<b>0.295</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0225	0.0144	0.245	7.50E-04	0.0829	0.0224
	Total	<b>0.0225</b>	<b>0.0144</b>	<b>0.245</b>	<b>7.50E-04</b>	<b>0.0829</b>	<b>0.0224</b>
<b>TOTAL</b>	<b>0.61</b>	<b>5.21</b>	<b>6.94</b>	<b>0.01</b>	<b>0.40</b>	<b>0.32</b>	

Onsite	<b>2023 Winter</b>						
	Off-Road	0.5854	5.1948	6.6976	9.88E-03	0.3207	0.295
	Total	<b>0.5854</b>	<b>5.1948</b>	<b>6.6976</b>	<b>9.88E-03</b>	<b>0.3207</b>	<b>0.295</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0246	0.0158	0.2282	7.20E-04	0.0829	0.0224
	Total	<b>0.0246</b>	<b>0.0158</b>	<b>0.2282</b>	<b>7.20E-04</b>	<b>0.0829</b>	<b>0.0224</b>
<b>TOTAL</b>	<b>0.61</b>	<b>5.21</b>	<b>6.93</b>	<b>0.01</b>	<b>0.40</b>	<b>0.32</b>	

Onsite	<b>2023</b>						
	Off-Road	0.59	5.19	6.70	0.01	0.32	0.30
	Total	<b>0.59</b>	<b>5.19</b>	<b>6.70</b>	<b>0.01</b>	<b>0.32</b>	<b>0.30</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.02	0.25	0.00	0.08	0.02
	Total	<b>0.02</b>	<b>0.02</b>	<b>0.25</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>	<b>0.61</b>	<b>5.21</b>	<b>6.94</b>	<b>0.01</b>	<b>0.40</b>	<b>0.32</b>	

<b>2023 P1 Rough Grading &amp; P1 Utility Trenching</b>		<b>4.01</b>	<b>40.35</b>	<b>35.84</b>	<b>0.08</b>	<b>6.07</b>	<b>3.28</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2024 Summer</b>					
Onsite	Off-Road	0.5681	4.9375	6.7068	9.89E-03	0.3065	0.282
	Total	<b>0.5681</b>	<b>4.9375</b>	<b>6.7068</b>	<b>9.89E-03</b>	<b>0.3065</b>	<b>0.282</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0212	0.013	0.2283	7.30E-04	0.0829	0.0224
	Total	<b>0.0212</b>	<b>0.013</b>	<b>0.2283</b>	<b>7.30E-04</b>	<b>0.0829</b>	<b>0.0224</b>
<b>TOTAL</b>		<b>0.59</b>	<b>4.95</b>	<b>6.94</b>	<b>0.01</b>	<b>0.39</b>	<b>0.30</b>
		<b>2024 Winter</b>					
Onsite	Off-Road	0.5681	4.9375	6.7068	9.89E-03	0.3065	0.282
	Total	<b>0.5681</b>	<b>4.9375</b>	<b>6.7068</b>	<b>9.89E-03</b>	<b>0.3065</b>	<b>0.282</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0232	0.0142	0.2129	7.00E-04	0.0829	0.0224
	Total	<b>0.0232</b>	<b>0.0142</b>	<b>0.2129</b>	<b>7.00E-04</b>	<b>0.0829</b>	<b>0.0224</b>
<b>TOTAL</b>		<b>0.59</b>	<b>4.95</b>	<b>6.92</b>	<b>0.01</b>	<b>0.39</b>	<b>0.30</b>
		<b>2024</b>					
Onsite	Off-Road	0.57	4.94	6.71	0.01	0.31	0.28
	Total	<b>0.57</b>	<b>4.94</b>	<b>6.71</b>	<b>0.01</b>	<b>0.31</b>	<b>0.28</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.23	0.00	0.08	0.02
	Total	<b>0.02</b>	<b>0.01</b>	<b>0.23</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>		<b>0.59</b>	<b>4.95</b>	<b>6.94</b>	<b>0.01</b>	<b>0.39</b>	<b>0.30</b>
<b>2024 P1 Rough Grading &amp; P1 Utility Trenching</b>		<b>3.88</b>	<b>37.95</b>	<b>35.46</b>	<b>0.08</b>	<b>5.97</b>	<b>3.18</b>

**Phase 1 Fine Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2024 Summer</b>					
Onsite	Fugitive Dust					3.9345	1.562
	Off-Road	3.2181	32.377	27.7228	0.0621	1.3354	1.2286
	Total	<b>3.2181</b>	<b>32.377</b>	<b>27.7228</b>	<b>0.0621</b>	<b>5.2699</b>	<b>2.7906</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0159	0.5591	0.2308	2.83E-03	0.0988	3.07E-02
	Worker	0.053	0.0324	0.5708	1.83E-03	0.2072	0.056
	Total	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.66E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>3.29</b>	<b>32.97</b>	<b>28.52</b>	<b>0.07</b>	<b>5.58</b>	<b>2.88</b>
		<b>2024 Winter</b>					
Onsite	Fugitive Dust					3.9345	1.562
	Off-Road	3.2181	32.377	27.7228	0.0621	1.3354	1.2286
	Total	<b>3.2181</b>	<b>32.377</b>	<b>27.7228</b>	<b>0.0621</b>	<b>5.2699</b>	<b>2.7906</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0154	0.5841	0.238	2.83E-03	0.0988	3.07E-02
	Worker	0.0581	0.0356	0.5323	1.74E-03	0.2072	0.056
	Total	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.57E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>3.29</b>	<b>33.00</b>	<b>28.49</b>	<b>0.07</b>	<b>5.58</b>	<b>2.85</b>

Onsite		<b>2024</b>						
	Fugitive Dust		0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road		3.22	32.38	27.72	0.06	1.34	1.23
	Total		<b>3.22</b>	<b>32.38</b>	<b>27.72</b>	<b>0.06</b>	<b>5.27</b>	<b>2.79</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.02	0.58	0.24	0.00	0.10	0.03
	Worker		0.06	0.04	0.57	0.00	0.21	0.06
	Total		<b>0.07</b>	<b>0.62</b>	<b>0.80</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>			<b>3.29</b>	<b>33.00</b>	<b>28.52</b>	<b>0.07</b>	<b>5.58</b>	<b>2.88</b>

<b>2024 P1 Rough Grading, P1 Utility Trenching, &amp; P1 Fine Grading</b>	<b>7.17</b>	<b>70.94</b>	<b>63.98</b>	<b>0.14</b>	<b>11.54</b>	<b>6.06</b>
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<b>2024 P1 Utility Trenching &amp; P1 Fine Grading</b>	<b>3.88</b>	<b>37.95</b>	<b>35.46</b>	<b>0.08</b>	<b>5.97</b>	<b>3.18</b>
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**Phase 1 Asphalt Paving**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2024 Summer</b>					
	Off-Road	0.9882	9.5246	14.6258	0.0228	0.4685	0.431
	Paving	3.02E-02				0	0
	Total	<b>1.0184</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>	<b>0.4685</b>	<b>0.431</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0397	0.0243	0.4281	1.37E-03	0.1554	0.042
	Total	<b>0.0397</b>	<b>0.0243</b>	<b>0.4281</b>	<b>1.37E-03</b>	<b>0.1554</b>	<b>0.042</b>
<b>TOTAL</b>		<b>1.06</b>	<b>9.55</b>	<b>15.05</b>	<b>0.02</b>	<b>0.62</b>	<b>0.47</b>

Onsite		<b>2024 Winter</b>					
	Off-Road	0.9882	9.5246	14.6258	0.0228	0.4685	0.431
	Paving	3.02E-02				0	0
	Total	<b>1.0184</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>	<b>0.4685</b>	<b>0.431</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0436	0.0267	0.3993	1.30E-03	0.1554	0.042
	Total	<b>0.0436</b>	<b>0.0267</b>	<b>0.3993</b>	<b>1.30E-03</b>	<b>0.1554</b>	<b>0.042</b>
<b>TOTAL</b>		<b>1.06</b>	<b>9.55</b>	<b>15.03</b>	<b>0.02</b>	<b>0.62</b>	<b>0.47</b>

Onsite		<b>2024</b>						
	Off-Road		0.99	9.52	14.63	0.02	0.47	0.43
	Paving		0.03	0.00	0.00	0.00	0.00	0.00
	Total		<b>1.02</b>	<b>9.52</b>	<b>14.63</b>	<b>0.02</b>	<b>0.47</b>	<b>0.43</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.04	0.03	0.43	0.00	0.16	0.04
	Total		<b>0.04</b>	<b>0.03</b>	<b>0.43</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>			<b>1.06</b>	<b>9.55</b>	<b>15.05</b>	<b>0.02</b>	<b>0.62</b>	<b>0.47</b>

<b>2024 P1 Fine Grading &amp; P1 Asphalt Paving</b>	<b>4.35</b>	<b>42.55</b>	<b>43.58</b>	<b>0.09</b>	<b>6.20</b>	<b>3.35</b>
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**Phase 1 Finishing/Landscaping**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2024 Summer</b>					
	Off-Road	0.1433	1.4424	2.2265	3.10E-03	0.0662	0.0609
	Total	<b>0.1433</b>	<b>1.4424</b>	<b>2.2265</b>	<b>3.10E-03</b>	<b>0.0662</b>	<b>0.0609</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.95E-03	4.86E-03	0.0856	2.70E-04	0.0311	8.40E-03
	Total	7.95E-03	4.86E-03	0.0856	2.70E-04	0.0311	8.40E-03
<b>TOTAL</b>		<b>0.15</b>	<b>1.45</b>	<b>2.31</b>	<b>0.00</b>	<b>0.10</b>	<b>0.07</b>

Onsite	<b>2024 Winter</b>						
Off-Road	0.1433	1.4424	2.2265	3.10E-03	0.0662	0.0609	
Total	0.1433	1.4424	2.2265	3.10E-03	0.0662	0.0609	

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	8.71E-03	5.33E-03	0.0799	2.60E-04	0.0311	8.40E-03
	Total	8.71E-03	5.33E-03	0.0799	2.60E-04	0.0311	8.40E-03
<b>TOTAL</b>		<b>0.15</b>	<b>1.45</b>	<b>2.31</b>	<b>0.00</b>	<b>0.10</b>	<b>0.07</b>

Onsite	<b>2024</b>						
Off-Road	0.14	1.44	2.23	0.00	0.07	0.06	
Total	0.14	1.44	2.23	0.00	0.07	0.06	

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.09	0.00	0.03	0.01
	Total	0.01	0.01	0.09	0.00	0.03	0.01
<b>TOTAL</b>		<b>0.15</b>	<b>1.45</b>	<b>2.31</b>	<b>0.00</b>	<b>0.10</b>	<b>0.07</b>

<b>2024 P1 Fine Grading, P1 Asphalt Paving, &amp; P1 Finish/Landscape</b>							
		<b>4.51</b>	<b>44.00</b>	<b>45.89</b>	<b>0.09</b>	<b>6.30</b>	<b>3.42</b>

**Phase 1 Building Construction**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2024 Summer</b>						
Off-Road	1.4716	13.4438	16.1668	0.027	0.6133	0.5769	
Total	1.4716	13.4438	16.1668	0.027	0.6133	0.5769	

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0597	2.0966	0.8654	1.06E-02	0.3703	0.1152
	Worker	0.6251	0.3822	6.7356	0.0216	2.4444	0.6607
	Total	0.6848	2.4788	7.601	0.0322	2.8147	0.7759
<b>TOTAL</b>		<b>2.16</b>	<b>15.92</b>	<b>23.77</b>	<b>0.06</b>	<b>3.43</b>	<b>1.35</b>

Onsite	<b>2024 Winter</b>						
Off-Road	1.4716	13.4438	16.1668	0.027	0.6133	0.5769	
Total	1.4716	13.4438	16.1668	0.027	0.6133	0.5769	

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0576	2.1903	0.8926	1.06E-02	0.3704	0.1152
	Worker	0.6855	0.4196	6.2816	0.0205	2.4444	0.6607
	Total	0.7431	2.6099	7.1742	0.0311	2.8147	0.776
<b>TOTAL</b>		<b>2.21</b>	<b>16.05</b>	<b>23.34</b>	<b>0.06</b>	<b>3.43</b>	<b>1.35</b>

Onsite	<b>2024</b>						
Off-Road	1.47	13.44	16.17	0.03	0.61	0.58	
Total	1.47	13.44	16.17	0.03	0.61	0.58	

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.06	2.19	0.89	0.01	0.37	0.12
	Worker	0.69	0.42	6.74	0.02	2.44	0.66
	Total	<b>0.74</b>	<b>2.61</b>	<b>7.60</b>	<b>0.03</b>	<b>2.81</b>	<b>0.78</b>
<b>TOTAL</b>		<b>2.21</b>	<b>16.05</b>	<b>23.77</b>	<b>0.06</b>	<b>3.43</b>	<b>1.35</b>

<b>2024 P1 Asphalt Paving, P1 Finish/Landscape, &amp; P1 Building</b>		<b>3.43</b>	<b>27.05</b>	<b>41.13</b>	<b>0.09</b>	<b>4.15</b>	<b>1.90</b>
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<b>2024 P1 Finish/Landscape &amp; P1 Building</b>		<b>2.37</b>	<b>17.50</b>	<b>26.08</b>	<b>0.06</b>	<b>3.53</b>	<b>1.42</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>						
Off-Road		1.3674	12.4697	16.0847	0.027	0.5276	0.4963
Total		<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0588	2.0863	0.8619	1.04E-02	0.3704	0.1152
	Worker	0.5904	0.3464	6.336	0.0208	2.4438	0.6602
	Total	<b>0.6492</b>	<b>2.4327</b>	<b>7.1978</b>	<b>0.0312</b>	<b>2.8142</b>	<b>0.7755</b>
<b>TOTAL</b>		<b>2.02</b>	<b>14.90</b>	<b>23.28</b>	<b>0.06</b>	<b>3.34</b>	<b>1.27</b>

Onsite	<b>2025 Winter</b>						
Off-Road		1.3674	12.4697	16.0847	0.027	0.5276	0.4963
Total		<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0567	2.1797	0.8885	1.04E-02	0.3704	0.1153
	Worker	0.6493	0.3802	5.9128	0.0198	2.4438	0.6602
	Total	<b>0.706</b>	<b>2.5599</b>	<b>6.8013</b>	<b>0.0302</b>	<b>2.8142</b>	<b>0.7755</b>
<b>TOTAL</b>		<b>2.07</b>	<b>15.03</b>	<b>22.89</b>	<b>0.06</b>	<b>3.34</b>	<b>1.27</b>

Onsite	<b>2025</b>						
Off-Road		1.37	12.47	16.08	0.03	0.53	0.50
Total		<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.06	2.18	0.89	0.01	0.37	0.12
	Worker	0.65	0.38	6.34	0.02	2.44	0.66
	Total	<b>0.71</b>	<b>2.56</b>	<b>7.20</b>	<b>0.03</b>	<b>2.81</b>	<b>0.78</b>
<b>TOTAL</b>		<b>2.07</b>	<b>15.03</b>	<b>23.28</b>	<b>0.06</b>	<b>3.34</b>	<b>1.27</b>

**Phase 1 Architectural Coating**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>						
Archit. Coating		36.3648				0	0
Off-Road		0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
Total		<b>36.5357</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.1176	0.069	1.2618	4.15E-03	0.4867	0.1315
	Total	<b>0.1176</b>	<b>0.069</b>	<b>1.2618</b>	<b>4.15E-03</b>	<b>0.4867</b>	<b>0.1315</b>
<b>TOTAL</b>		<b>36.65</b>	<b>1.21</b>	<b>3.07</b>	<b>0.01</b>	<b>0.54</b>	<b>0.18</b>



Onsite	<b>2025 Winter</b>						
	Archit. Coating	36.3648				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	<b>Total</b>	<b>36.5357</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.1293	0.0757	1.1776	3.95E-03	0.4867	0.1315
	<b>Total</b>	<b>0.1293</b>	<b>0.0757</b>	<b>1.1776</b>	<b>3.95E-03</b>	<b>0.4867</b>	<b>0.1315</b>
<b>TOTAL</b>		<b>36.67</b>	<b>1.22</b>	<b>2.99</b>	<b>0.01</b>	<b>0.54</b>	<b>0.18</b>

Onsite	<b>2025</b>						
	Archit. Coating	36.36	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	<b>Total</b>	<b>36.54</b>	<b>1.15</b>	<b>1.81</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.13	0.08	1.26	0.00	0.49	0.13
	<b>Total</b>	<b>0.13</b>	<b>0.08</b>	<b>1.26</b>	<b>0.00</b>	<b>0.49</b>	<b>0.13</b>
<b>TOTAL</b>		<b>36.67</b>	<b>1.22</b>	<b>3.07</b>	<b>0.01</b>	<b>0.54</b>	<b>0.18</b>

**Eastern Remediation Site Preparation**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2024 Summer</b>						
	Fugitive Dust					8.4034	4.3188
	Off-Road	2.6609	27.176	18.3356	0.0381	1.2294	1.131
	<b>Total</b>	<b>2.6609</b>	<b>27.176</b>	<b>18.3356</b>	<b>0.0381</b>	<b>9.6327</b>	<b>5.4498</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0318	1.1182	0.4615	5.65E-03	0.1975	6.14E-02
	Worker	0.0477	0.0292	0.5137	1.64E-03	0.1864	0.0504
	<b>Total</b>	<b>0.0795</b>	<b>1.1473</b>	<b>0.9753</b>	<b>7.29E-03</b>	<b>0.3839</b>	<b>0.1118</b>
<b>TOTAL</b>		<b>2.74</b>	<b>28.32</b>	<b>19.31</b>	<b>0.05</b>	<b>10.02</b>	<b>5.56</b>

Onsite	<b>2024 Winter</b>						
	Fugitive Dust					8.4034	4.3188
	Off-Road	2.6609	27.176	18.3356	0.0381	1.2294	1.131
	<b>Total</b>	<b>2.6609</b>	<b>27.176</b>	<b>18.3356</b>	<b>0.0381</b>	<b>9.6327</b>	<b>5.4498</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0307	1.1681	0.4761	5.66E-03	0.1975	6.15E-02
	Worker	0.0523	0.032	0.4791	1.57E-03	0.1864	0.0504
	<b>Total</b>	<b>0.083</b>	<b>1.2002</b>	<b>0.9552</b>	<b>7.23E-03</b>	<b>0.384</b>	<b>0.1119</b>
<b>TOTAL</b>		<b>2.74</b>	<b>28.38</b>	<b>19.29</b>	<b>0.05</b>	<b>10.02</b>	<b>5.50</b>

Onsite	<b>2024</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	2.66	27.18	18.34	0.04	1.23	1.13
	<b>Total</b>	<b>2.66</b>	<b>27.18</b>	<b>18.34</b>	<b>0.04</b>	<b>9.63</b>	<b>5.45</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	1.17	0.48	0.01	0.20	0.06
	Worker	0.05	0.03	0.51	0.00	0.19	0.05
	<b>Total</b>	<b>0.08</b>	<b>1.20</b>	<b>0.98</b>	<b>0.01</b>	<b>0.38</b>	<b>0.11</b>
<b>TOTAL</b>		<b>2.74</b>	<b>28.38</b>	<b>19.31</b>	<b>0.05</b>	<b>10.02</b>	<b>5.56</b>

**Eastern Remediation Rough Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2024 Summer</b>						
	Fugitive Dust					3.9843	1.5695
	Off-Road	3.2181	32.377	27.7228	0.0621	1.3354	1.2286
	<b>Total</b>	<b>3.2181</b>	<b>32.377</b>	<b>27.7228</b>	<b>0.0621</b>	<b>5.3197</b>	<b>2.7981</b>
Offsite							
	Hauling <sup>1</sup>	0.4660764	36.1350456	10.915236	0.1828764	5.8157244	1.7886912
	Vendor	0.0159	0.5591	0.2308	2.83E-03	0.0988	3.07E-02
	Worker	0.053	0.0324	0.5708	1.83E-03	0.2072	0.056
<b>Total</b>	<b>0.5349764</b>	<b>36.7265456</b>	<b>11.716836</b>	<b>1.88E-01</b>	<b>6.1217244</b>	<b>1.8753912</b>	
<b>TOTAL</b>	<b>3.75</b>	<b>69.10</b>	<b>39.44</b>	<b>0.25</b>	<b>11.44</b>	<b>4.67</b>	
Onsite	<b>2024 Winter</b>						
	Fugitive Dust					3.9843	1.5695
	Off-Road	3.2181	32.377	27.7228	0.0621	1.3354	1.2286
	<b>Total</b>	<b>3.2181</b>	<b>32.377</b>	<b>27.7228</b>	<b>0.0621</b>	<b>5.3197</b>	<b>2.7981</b>
Offsite							
	Hauling <sup>1</sup>	0.45489	37.5581256	10.9479456	0.1828764	5.815866	1.7888328
	Vendor	0.0154	0.5841	0.238	2.83E-03	0.0988	3.07E-02
	Worker	0.0581	0.0356	0.5323	1.74E-03	0.2072	0.056
<b>Total</b>	<b>0.52839</b>	<b>38.1778256</b>	<b>11.7182456</b>	<b>1.87E-01</b>	<b>6.121866</b>	<b>1.8755328</b>	
<b>TOTAL</b>	<b>3.75</b>	<b>70.55</b>	<b>39.44</b>	<b>0.25</b>	<b>11.44</b>	<b>2.85</b>	
Onsite	<b>2024</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.98	1.57
	Off-Road	3.22	32.38	27.72	0.06	1.34	1.23
	<b>Total</b>	<b>3.22</b>	<b>32.38</b>	<b>27.72</b>	<b>0.06</b>	<b>5.32</b>	<b>2.80</b>
Offsite							
	Hauling	0.47	37.56	10.95	0.18	5.82	1.79
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.06	0.04	0.57	0.00	0.21	0.06
<b>Total</b>	<b>0.53</b>	<b>38.18</b>	<b>11.72</b>	<b>0.19</b>	<b>6.12</b>	<b>1.88</b>	
<b>TOTAL</b>	<b>3.75</b>	<b>70.55</b>	<b>39.44</b>	<b>0.25</b>	<b>11.44</b>	<b>4.67</b>	

<sup>1</sup> Proportioned based on the segment of the haul route within the South Coast Air Basin compared to the total haul route between the project site and Soil Safe of California at 12328 Hibiscus Road in the City of Adelanto.

**Phase 2 Site Preparation**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2024 Summer</b>						
	Fugitive Dust					8.4034	4.3188
	Off-Road	2.6609	27.176	18.3356	0.0381	1.2294	1.131
	<b>Total</b>	<b>2.6609</b>	<b>27.176</b>	<b>18.3356</b>	<b>0.0381</b>	<b>9.6327</b>	<b>5.4498</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	7.96E-03	0.2795	0.1154	1.41E-03	0.0494	1.54E-02
	Worker	0.0477	0.0292	0.5137	1.64E-03	0.1864	0.0504
<b>Total</b>	<b>0.0556</b>	<b>0.3087</b>	<b>0.6291</b>	<b>3.05E-03</b>	<b>0.2358</b>	<b>0.0658</b>	
<b>TOTAL</b>	<b>2.72</b>	<b>27.48</b>	<b>18.96</b>	<b>0.04</b>	<b>9.87</b>	<b>5.52</b>	
Onsite	<b>2024 Winter</b>						
	Fugitive Dust					8.4034	4.3188
	Off-Road	2.6609	27.176	18.3356	0.0381	1.2294	1.131
	<b>Total</b>	<b>2.6609</b>	<b>27.176</b>	<b>18.3356</b>	<b>0.0381</b>	<b>9.6327</b>	<b>5.4498</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.68E-03	0.292	0.119	1.42E-03	0.0494	1.54E-02
	Worker	0.0523	0.032	0.4791	1.57E-03	0.1864	0.0504
	Total	<b>0.06</b>	<b>0.324</b>	<b>0.5981</b>	<b>2.99E-03</b>	<b>0.2358</b>	<b>0.0658</b>
<b>TOTAL</b>		<b>2.72</b>	<b>27.50</b>	<b>18.93</b>	<b>0.04</b>	<b>9.87</b>	<b>5.50</b>

Onsite		<b>2024</b>					
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	2.66	27.18	18.34	0.04	1.23	1.13
	Total	<b>2.66</b>	<b>27.18</b>	<b>18.34</b>	<b>0.04</b>	<b>9.63</b>	<b>5.45</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.29	0.12	0.00	0.05	0.02
	Worker	0.05	0.03	0.51	0.00	0.19	0.05
	Total	<b>0.06</b>	<b>0.32</b>	<b>0.63</b>	<b>0.00</b>	<b>0.24</b>	<b>0.07</b>
<b>TOTAL</b>		<b>2.72</b>	<b>27.50</b>	<b>18.96</b>	<b>0.04</b>	<b>9.87</b>	<b>5.52</b>

<b>2024 P1 Building Construction, P2 Site Preparation, &amp; East Remediation Site Preparation</b>		<b>7.68</b>	<b>71.93</b>	<b>62.04</b>	<b>0.15</b>	<b>23.31</b>	<b>12.43</b>
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<b>2024 P1 Building Construction, P2 Site Preparation, &amp; East Remediation Grading</b>		<b>8.69</b>	<b>114.11</b>	<b>82.17</b>	<b>0.35</b>	<b>24.74</b>	<b>11.54</b>
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<b>2024 P1 Building Construction &amp; P2 Site Preparation</b>		<b>4.94</b>	<b>43.55</b>	<b>42.73</b>	<b>0.10</b>	<b>13.30</b>	<b>6.87</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2025 Summer</b>					
	Fugitive Dust					8.4034	4.3188
	Off-Road	2.4727	25.2339	17.9118	0.0381	1.0868	0.9999
	Total	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>9.4902</b>	<b>5.3187</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.84E-03	0.2782	0.1149	1.38E-03	0.0494	1.54E-02
	Worker	0.045	0.0264	0.4833	1.59E-03	0.1864	0.0504
	Total	<b>0.0529</b>	<b>0.3046</b>	<b>0.5982</b>	<b>2.97E-03</b>	<b>0.2358</b>	<b>0.0657</b>
<b>TOTAL</b>		<b>2.53</b>	<b>25.54</b>	<b>18.51</b>	<b>0.04</b>	<b>9.73</b>	<b>5.38</b>

Onsite		<b>2025 Winter</b>					
	Fugitive Dust					8.4034	4.3188
	Off-Road	2.4727	25.2339	17.9118	0.0381	1.0868	0.9999
	Total	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>9.4902</b>	<b>5.3187</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.56E-03	0.2906	0.1185	1.39E-03	0.0494	1.54E-02
	Worker	0.0495	0.029	0.451	1.51E-03	0.1864	0.0504
	Total	<b>0.0571</b>	<b>0.3196</b>	<b>0.5695</b>	<b>2.90E-03</b>	<b>0.2358</b>	<b>0.0657</b>
<b>TOTAL</b>		<b>2.53</b>	<b>25.55</b>	<b>18.48</b>	<b>0.04</b>	<b>9.73</b>	<b>5.37</b>

Onsite		<b>2025</b>					
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	2.47	25.23	17.91	0.04	1.09	1.00
	Total	<b>2.47</b>	<b>25.23</b>	<b>17.91</b>	<b>0.04</b>	<b>9.49</b>	<b>5.32</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.29	0.12	0.00	0.05	0.02
	Worker	0.05	0.03	0.48	0.00	0.19	0.05
	Total	<b>0.06</b>	<b>0.32</b>	<b>0.60</b>	<b>0.00</b>	<b>0.24</b>	<b>0.07</b>
<b>TOTAL</b>		<b>2.53</b>	<b>25.55</b>	<b>18.51</b>	<b>0.04</b>	<b>9.73</b>	<b>5.38</b>

<b>2025 P1 Building Construction &amp; P2 Site Preparation</b>	<b>4.60</b>	<b>40.58</b>	<b>41.79</b>	<b>0.10</b>	<b>13.07</b>	<b>6.66</b>
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**Phase 2 Rough Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2025 Summer</b>					
Onsite	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0157	0.5563	0.2298	2.77E-03	0.0988	3.07E-02
	Worker	0.05	0.0294	0.5369	1.76E-03	0.2071	0.056
	<b>Total</b>	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.53E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.53</b>	<b>27.10</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

		<b>2025 Winter</b>					
Onsite	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0151	0.5813	0.2369	2.77E-03	0.0988	3.07E-02
	Worker	0.055	0.0322	0.5011	1.68E-03	0.2071	0.056
	<b>Total</b>	<b>0.0702</b>	<b>0.6135</b>	<b>0.738</b>	<b>4.45E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.56</b>	<b>27.07</b>	<b>0.07</b>	<b>5.37</b>	<b>2.66</b>

		<b>2025</b>					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	<b>Total</b>	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>	<b>2.60</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.06	0.03	0.54	0.00	0.21	0.06
	<b>Total</b>	<b>0.07</b>	<b>0.61</b>	<b>0.77</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.56</b>	<b>27.10</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

<b>2025 P1 Building Construction &amp; P2 Rough Grading</b>	<b>5.19</b>	<b>44.61</b>	<b>50.87</b>	<b>0.13</b>	<b>8.80</b>	<b>4.04</b>
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<b>2025 P1 Building Construction, P1 Architectural Coating, &amp; P2 Rough Grading</b>	<b>41.85</b>	<b>45.83</b>	<b>53.94</b>	<b>0.13</b>	<b>9.34</b>	<b>4.23</b>
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**Phase 2 Utility Trenching**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2025 Summer</b>					
Onsite	Off-Road	0.6515	5.4135	9.1328	0.0138	0.3174	0.292
	<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>	<b>0.3174</b>	<b>0.292</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.02	0.0117	0.2148	7.10E-04	0.0828	0.0224
	<b>Total</b>	<b>0.02</b>	<b>0.0117</b>	<b>0.2148</b>	<b>7.10E-04</b>	<b>0.0828</b>	<b>0.0224</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.43</b>	<b>9.35</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

		<b>2025 Winter</b>					
Onsite	Off-Road	0.6515	5.4135	9.1328	0.0138	0.3174	0.292
	<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>	<b>0.3174</b>	<b>0.292</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.022	0.0129	0.2004	6.70E-04	0.0828	0.0224
	Total	<b>0.022</b>	<b>0.0129</b>	<b>0.2004</b>	<b>6.70E-04</b>	<b>0.0828</b>	<b>0.0224</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.43</b>	<b>9.33</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

Onsite	<b>2025</b>						
	Off-Road	0.65	5.41	9.13	0.01	0.32	0.29
	Total	<b>0.65</b>	<b>5.41</b>	<b>9.13</b>	<b>0.01</b>	<b>0.32</b>	<b>0.29</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.21	0.00	0.08	0.02
	Total	<b>0.02</b>	<b>0.01</b>	<b>0.21</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.43</b>	<b>9.35</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

<b>2025 P1 Building Construction, P2 Rough Grading, P1 Architectural Coating, &amp; P2 Utility Trenching</b>	<b>42.52</b>	<b>51.26</b>	<b>63.28</b>	<b>0.15</b>	<b>9.74</b>	<b>4.54</b>
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<b>2025 P2 Rough Grading &amp; P2 Utility Trenching</b>	<b>3.64</b>	<b>33.98</b>	<b>36.45</b>	<b>0.08</b>	<b>5.77</b>	<b>3.00</b>
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**Phase 2 Fine Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0157	0.5563	0.2298	2.77E-03	0.0988	3.07E-02
	Worker	0.05	0.0294	0.5369	1.76E-03	0.2071	0.056
	Total	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.53E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.53</b>	<b>27.10</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

Onsite	<b>2025 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0151	0.5813	0.2369	2.77E-03	0.0988	3.07E-02
	Worker	0.055	0.0322	0.5011	1.68E-03	0.2071	0.056
	Total	<b>0.0702</b>	<b>0.6135</b>	<b>0.738</b>	<b>4.45E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.56</b>	<b>27.07</b>	<b>0.07</b>	<b>5.37</b>	<b>2.66</b>

Onsite	<b>2025</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	Total	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>	<b>2.60</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.06	0.03	0.54	0.00	0.21	0.06
	Total	<b>0.07</b>	<b>0.61</b>	<b>0.77</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.56</b>	<b>27.10</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

<b>2025 P2 Rough Grading, P2 Trenching &amp; P2 Fine Grading</b>	<b>6.62</b>	<b>62.54</b>	<b>63.54</b>	<b>0.15</b>	<b>11.14</b>	<b>5.69</b>
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<b>2025 P2 Trenching &amp; P2 Fine Grading</b>	<b>3.64</b>	<b>33.98</b>	<b>36.45</b>	<b>0.08</b>	<b>5.77</b>	<b>3.00</b>
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<b>Phase 2 Asphalt Paving</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>						
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0.0445				0	0
	<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0375	0.022	0.4027	1.32E-03	0.1553	0.042
	<b>Total</b>	<b>0.0375</b>	<b>0.022</b>	<b>0.4027</b>	<b>1.32E-03</b>	<b>0.1553</b>	<b>0.042</b>
<b>TOTAL</b>		<b>1.00</b>	<b>8.60</b>	<b>14.98</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	<b>2025 Winter</b>						
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0.0445				0	0
	<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0413	0.0242	0.3758	1.26E-03	0.1553	0.042
	<b>Total</b>	<b>0.0413</b>	<b>0.0242</b>	<b>0.3758</b>	<b>1.26E-03</b>	<b>0.1553</b>	<b>0.042</b>
<b>TOTAL</b>		<b>1.00</b>	<b>8.61</b>	<b>14.95</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	<b>2025</b>						
	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	0.04	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>0.96</b>	<b>8.58</b>	<b>14.58</b>	<b>0.02</b>	<b>0.42</b>	<b>0.39</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.04	0.02	0.40	0.00	0.16	0.04
	<b>Total</b>	<b>0.04</b>	<b>0.02</b>	<b>0.40</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>		<b>1.00</b>	<b>8.61</b>	<b>14.98</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

<b>2025 P2 Fine Grading &amp; P2 Asphalt Paving</b>	<b>3.97</b>	<b>37.16</b>	<b>42.08</b>	<b>0.09</b>	<b>5.95</b>	<b>3.12</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2026 Summer</b>						
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0.0445				0	0
	<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0356	0.0202	0.3814	1.28E-03	0.1553	0.0419
	<b>Total</b>	<b>0.0356</b>	<b>0.0202</b>	<b>0.3814</b>	<b>1.28E-03</b>	<b>0.1553</b>	<b>0.0419</b>
<b>TOTAL</b>		<b>1.00</b>	<b>8.60</b>	<b>14.96</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	<b>2026 Winter</b>						
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0.0445				0	0
	<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0	0	0
Worker	0.0393	0.0221	0.3561	1.22E-03	0.1553	0.0419
<b>Total</b>	<b>0.0393</b>	<b>0.0221</b>	<b>0.3561</b>	<b>1.22E-03</b>	<b>0.1553</b>	<b>0.0419</b>
<b>TOTAL</b>	<b>1.00</b>	<b>8.60</b>	<b>14.93</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite

**2026**

Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
Paving	0.04	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.96</b>	<b>8.58</b>	<b>14.58</b>	<b>0.02</b>	<b>0.42</b>	<b>0.39</b>

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.04	0.02	0.38	0.00	0.16	0.04
<b>Total</b>	<b>0.04</b>	<b>0.02</b>	<b>0.38</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>	<b>1.00</b>	<b>8.60</b>	<b>14.96</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

**Phase 2 Finishing/Landscaping**

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>					
Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0	0	0
Worker	7.50E-03	4.40E-03	0.0805	2.60E-04	0.0311	8.39E-03
<b>Total</b>	<b>7.50E-03</b>	<b>4.40E-03</b>	<b>0.0805</b>	<b>2.60E-04</b>	<b>0.0311</b>	<b>8.39E-03</b>
<b>TOTAL</b>	<b>0.14</b>	<b>1.33</b>	<b>2.30</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

Onsite

**2025 Winter**

Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0	0	0
Worker	8.25E-03	4.83E-03	0.0752	2.50E-04	0.0311	8.39E-03
<b>Total</b>	<b>8.25E-03</b>	<b>4.83E-03</b>	<b>0.0752</b>	<b>2.50E-04</b>	<b>0.0311</b>	<b>8.39E-03</b>
<b>TOTAL</b>	<b>0.14</b>	<b>1.33</b>	<b>2.30</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

Onsite

**2025**

Off-Road	0.13	1.33	2.22	0.00	0.05	0.05
<b>Total</b>	<b>0.13</b>	<b>1.33</b>	<b>2.22</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.01	0.00	0.08	0.00	0.03	0.01
<b>Total</b>	<b>0.01</b>	<b>0.00</b>	<b>0.08</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>
<b>TOTAL</b>	<b>0.14</b>	<b>1.33</b>	<b>2.30</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

**2025 P2 Fine Grading, P2 Asphalt Paving, & P2 Finish/Landscape**

<b>4.11</b>	<b>38.50</b>	<b>44.38</b>	<b>0.09</b>	<b>6.03</b>	<b>3.17</b>
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**2025 P2 Asphalt Paving, & P2 Finish/Landscape**

<b>1.14</b>	<b>9.94</b>	<b>17.28</b>	<b>0.03</b>	<b>0.66</b>	<b>0.48</b>
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	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2026 Summer</b>					
Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0	0	0
Worker	7.12E-03	4.03E-03	0.0763	2.60E-04	0.0311	8.39E-03
<b>Total</b>	<b>7.12E-03</b>	<b>4.03E-03</b>	<b>0.0763</b>	<b>2.60E-04</b>	<b>0.0311</b>	<b>8.39E-03</b>

**TOTAL**

**0.14 1.33 2.30 0.00 0.09 0.06**

Onsite

**2026 Winter**

Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0	0	0
Worker	7.85E-03	4.42E-03	0.0712	2.40E-04	0.0311	8.39E-03
<b>Total</b>	<b>7.85E-03</b>	<b>4.42E-03</b>	<b>0.0712</b>	<b>2.40E-04</b>	<b>0.0311</b>	<b>8.39E-03</b>

**TOTAL**

**0.14 1.33 2.29 0.00 0.09 0.06**

Onsite

**2026**

Off-Road	0.13	1.33	2.22	0.00	0.05	0.05
<b>Total</b>	<b>0.13</b>	<b>1.33</b>	<b>2.22</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.01	0.00	0.08	0.00	0.03	0.01
<b>Total</b>	<b>0.01</b>	<b>0.00</b>	<b>0.08</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>

**TOTAL**

**0.14 1.33 2.30 0.00 0.09 0.06**

**Phase 2 Building Construction**

**ROG NOx CO SO2 PM10 Total PM2.5 Total**

Onsite

**2025 Summer**

Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0.1725	6.1197	2.5282	0.0305	1.0864	0.338
Worker	1.7136	1.0055	18.3904	0.0604	7.0933	1.9164
<b>Total</b>	<b>1.8861</b>	<b>7.1252</b>	<b>20.9186</b>	<b>0.0909</b>	<b>8.1797</b>	<b>2.2544</b>

**TOTAL**

**3.25 19.59 37.00 0.12 8.71 2.75**

Onsite

**2025 Winter**

Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0.1663	6.3938	2.6063	0.0305	1.0866	0.3382
Worker	1.8847	1.1037	17.1622	0.0576	7.0933	1.9164
<b>Total</b>	<b>2.051</b>	<b>7.4974</b>	<b>19.7685</b>	<b>0.0881</b>	<b>8.1799</b>	<b>2.2545</b>

**TOTAL**

**3.42 19.97 35.85 0.12 8.71 2.75**

Onsite

**2025**

Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
<b>Total</b>	<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.17	6.39	2.61	0.03	1.09	0.34
Worker	1.88	1.10	18.39	0.06	7.09	1.92
<b>Total</b>	<b>2.05</b>	<b>7.50</b>	<b>20.92</b>	<b>0.09</b>	<b>8.18</b>	<b>2.25</b>

**TOTAL**

**3.42 19.97 37.00 0.12 8.71 2.75**



<b>2025 P2 Asphalt Paving, P2 Finishing/Landscaping, &amp; P2 Building Construction</b>	<b>4.56</b>	<b>29.91</b>	<b>54.29</b>	<b>0.15</b>	<b>9.37</b>	<b>3.24</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2026 Summer</b>					
Onsite	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.17	6.0757	2.5201	0.0298	1.0864	0.338
	Worker	1.6255	0.9205	17.4164	0.0586	7.0916	1.9148
	Total	<b>1.7954</b>	<b>6.9962</b>	<b>19.9365</b>	<b>0.0884</b>	<b>8.178</b>	<b>2.2528</b>
<b>TOTAL</b>		<b>3.16</b>	<b>19.47</b>	<b>36.02</b>	<b>0.12</b>	<b>8.71</b>	<b>2.75</b>

Onsite	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1637	6.3486	2.5966	0.0299	1.0865	0.3381
	Worker	1.7932	1.0101	16.2603	0.0558	7.0916	1.9148
	Total	<b>1.9569</b>	<b>7.3587</b>	<b>18.8569</b>	<b>0.0857</b>	<b>8.1781</b>	<b>2.253</b>
<b>TOTAL</b>		<b>3.32</b>	<b>19.83</b>	<b>34.94</b>	<b>0.11</b>	<b>8.71</b>	<b>2.75</b>

Onsite	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.17	6.35	2.60	0.03	1.09	0.34
	Worker	1.79	1.01	17.42	0.06	7.09	1.91
	Total	<b>1.96</b>	<b>7.36</b>	<b>19.94</b>	<b>0.09</b>	<b>8.18</b>	<b>2.25</b>
<b>TOTAL</b>		<b>3.32</b>	<b>19.83</b>	<b>36.02</b>	<b>0.12</b>	<b>8.71</b>	<b>2.75</b>

<b>2026 P2 Asphalt Paving, P2 Finishing/Landscaping, &amp; P2 Building Construction</b>	<b>4.46</b>	<b>29.77</b>	<b>53.28</b>	<b>0.14</b>	<b>9.36</b>	<b>3.23</b>
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<b>2026 P2 Finish/Landscape &amp; P2 Building</b>	<b>3.46</b>	<b>21.16</b>	<b>38.32</b>	<b>0.12</b>	<b>8.79</b>	<b>2.81</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2027 Summer</b>					
Onsite	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1677	6.0304	2.5125	0.0292	1.0863	0.3379
	Worker	1.5441	0.849	16.5928	0.0569	7.0896	1.913
	Total	<b>1.7117</b>	<b>6.8794</b>	<b>19.1054</b>	<b>0.0861</b>	<b>8.1759</b>	<b>2.2509</b>
<b>TOTAL</b>		<b>3.08</b>	<b>19.35</b>	<b>35.19</b>	<b>0.11</b>	<b>8.70</b>	<b>2.75</b>

Onsite	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1614	6.302	2.5874	0.0292	1.0864	0.338
	Worker	1.7079	0.9315	15.4967	0.0542	7.0896	1.913
	Total	<b>1.8692</b>	<b>7.2335</b>	<b>18.0841</b>	<b>0.0834</b>	<b>8.1761</b>	<b>2.2511</b>
<b>TOTAL</b>		<b>3.24</b>	<b>19.70</b>	<b>34.17</b>	<b>0.11</b>	<b>8.70</b>	<b>2.75</b>

		<b>2027</b>					
Onsite	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	<b>Total</b>	<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.17	6.30	2.59	0.03	1.09	0.34
	Worker	1.71	0.93	16.59	0.06	7.09	1.91
	<b>Total</b>	<b>1.87</b>	<b>7.23</b>	<b>19.11</b>	<b>0.09</b>	<b>8.18</b>	<b>2.25</b>
<b>TOTAL</b>		<b>3.24</b>	<b>19.70</b>	<b>35.19</b>	<b>0.11</b>	<b>8.70</b>	<b>2.75</b>

### Phase 2 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2027 Summer</b>					
Onsite	Archit. Coating	30.8767				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	<b>Total</b>	<b>31.0475</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.3088	0.1698	3.3186	1.14E-02	1.4179	0.3826
	<b>Total</b>	<b>0.3088</b>	<b>0.1698</b>	<b>3.3186</b>	<b>1.14E-02</b>	<b>1.4179</b>	<b>0.3826</b>
<b>TOTAL</b>		<b>31.36</b>	<b>1.32</b>	<b>5.13</b>	<b>0.01</b>	<b>1.47</b>	<b>0.43</b>

		<b>2027 Winter</b>					
Onsite	Archit. Coating	30.8767				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	<b>Total</b>	<b>31.0475</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.3416	0.1863	3.0993	1.08E-02	1.4179	0.3826
	<b>Total</b>	<b>0.3416</b>	<b>0.1863</b>	<b>3.0993</b>	<b>1.08E-02</b>	<b>1.4179</b>	<b>0.3826</b>
<b>TOTAL</b>		<b>31.39</b>	<b>1.33</b>	<b>4.91</b>	<b>0.01</b>	<b>1.47</b>	<b>0.43</b>

		<b>2027</b>					
Onsite	Archit. Coating	30.88	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	<b>Total</b>	<b>31.05</b>	<b>1.15</b>	<b>1.81</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.34	0.19	3.32	0.01	1.42	0.38
	<b>Total</b>	<b>0.34</b>	<b>0.19</b>	<b>3.32</b>	<b>0.01</b>	<b>1.42</b>	<b>0.38</b>
<b>TOTAL</b>		<b>31.39</b>	<b>1.33</b>	<b>5.13</b>	<b>0.01</b>	<b>1.47</b>	<b>0.43</b>

### Phase 3 Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2026 Summer</b>					
Onsite	Fugitive Dust					8.4034	4.3188
	Off-Road	2.4727	25.2339	17.9118	0.0381	1.0868	0.9999
	<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>9.4902</b>	<b>5.3187</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.73E-03	0.2762	0.1146	1.36E-03	0.0494	1.54E-02
	Worker	0.0427	0.0242	0.4577	1.54E-03	0.1864	0.0503
	<b>Total</b>	<b>0.0504</b>	<b>0.3004</b>	<b>0.5722</b>	<b>2.90E-03</b>	<b>0.2357</b>	<b>0.0657</b>
<b>TOTAL</b>		<b>2.52</b>	<b>25.53</b>	<b>18.48</b>	<b>0.04</b>	<b>9.73</b>	<b>5.38</b>

Onsite	<b>2026 Winter</b>						
	Fugitive Dust				8.4034	4.3188	
	Off-Road	2.4727	25.2339	17.9118	0.0381	1.0868	0.9999
	<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>9.4902</b>	<b>5.3187</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	7.44E-03	0.2886	0.118	1.36E-03	0.0494	1.54E-02
	Worker	0.0471	0.0265	0.4273	1.47E-03	0.1864	0.0503
<b>Total</b>	<b>0.0546</b>	<b>0.3151</b>	<b>0.5453</b>	<b>2.83E-03</b>	<b>0.2357</b>	<b>0.0657</b>	
<b>TOTAL</b>	<b>2.53</b>	<b>25.55</b>	<b>18.46</b>	<b>0.04</b>	<b>9.73</b>	<b>5.37</b>	

Onsite	<b>2026</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	2.47	25.23	17.91	0.04	1.09	1.00
	<b>Total</b>	<b>2.47</b>	<b>25.23</b>	<b>17.91</b>	<b>0.04</b>	<b>9.49</b>	<b>5.32</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.29	0.12	0.00	0.05	0.02
	Worker	0.05	0.03	0.46	0.00	0.19	0.05
<b>Total</b>	<b>0.05</b>	<b>0.32</b>	<b>0.57</b>	<b>0.00</b>	<b>0.24</b>	<b>0.07</b>	
<b>TOTAL</b>	<b>2.53</b>	<b>25.55</b>	<b>18.48</b>	<b>0.04</b>	<b>9.73</b>	<b>5.38</b>	

**2026 P2 Building & P3 Site Preparation**      **5.85**      **45.38**      **54.51**      **0.16**      **18.43**      **8.13**

**Phase 3 Rough Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2026 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0155	0.5523	0.2291	2.71E-03	0.0988	3.07E-02
	Worker	0.0475	0.0269	0.5085	1.71E-03	0.2071	0.0559
<b>Total</b>	<b>0.0629</b>	<b>0.5792</b>	<b>0.7376</b>	<b>4.42E-03</b>	<b>0.3058</b>	<b>0.0866</b>	
<b>TOTAL</b>	<b>2.96</b>	<b>28.52</b>	<b>27.07</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>	

Onsite	<b>2026 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0149	0.5772	0.2361	2.72E-03	0.0988	3.07E-02
	Worker	0.0524	0.0295	0.4748	1.63E-03	0.2071	0.0559
<b>Total</b>	<b>0.0673</b>	<b>0.6066</b>	<b>0.7108</b>	<b>4.35E-03</b>	<b>0.3058</b>	<b>0.0867</b>	
<b>TOTAL</b>	<b>2.97</b>	<b>28.55</b>	<b>27.04</b>	<b>0.07</b>	<b>5.37</b>	<b>2.66</b>	

Onsite	<b>2026</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	<b>Total</b>	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>	<b>2.60</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.05	0.03	0.51	0.00	0.21	0.06
<b>Total</b>	<b>0.07</b>	<b>0.61</b>	<b>0.74</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>	
<b>TOTAL</b>	<b>2.97</b>	<b>28.55</b>	<b>27.07</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>	

<b>2026 P2 Building &amp; P3 Rough Grading</b>	<b>6.29</b>	<b>48.38</b>	<b>63.09</b>	<b>0.18</b>	<b>14.08</b>	<b>5.44</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2027 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0152	0.5482	0.2284	2.65E-03	0.0988	3.07E-02
	Worker	0.0451	0.0248	0.4845	1.66E-03	0.207	0.0559
	<b>Total</b>	<b>0.0603</b>	<b>0.573</b>	<b>0.7129</b>	<b>4.31E-03</b>	<b>0.3058</b>	<b>0.0866</b>
<b>TOTAL</b>	<b>2.96</b>	<b>28.52</b>	<b>27.04</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>	

Onsite	<b>2027 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0147	0.5729	0.2352	2.66E-03	0.0988	3.07E-02
	Worker	0.0499	0.0272	0.4525	1.58E-03	0.207	0.0559
	<b>Total</b>	<b>0.0645</b>	<b>0.6001</b>	<b>0.6877</b>	<b>4.24E-03</b>	<b>0.3058</b>	<b>0.0866</b>
<b>TOTAL</b>	<b>2.97</b>	<b>28.54</b>	<b>27.02</b>	<b>0.07</b>	<b>5.37</b>	<b>2.66</b>	

Onsite	<b>2027</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	<b>Total</b>	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>	<b>2.60</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.57	0.24	0.00	0.10	0.03
	Worker	0.05	0.03	0.48	0.00	0.21	0.06
	<b>Total</b>	<b>0.06</b>	<b>0.60</b>	<b>0.71</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>	<b>2.97</b>	<b>28.54</b>	<b>27.04</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>	

<b>2027 P2 Building &amp; P3 Rough Grading</b>	<b>6.20</b>	<b>48.25</b>	<b>62.23</b>	<b>0.18</b>	<b>14.07</b>	<b>5.44</b>
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<b>2027 P2 Building Construction, P3 Rough Grading, &amp; P2 Architectural Coating</b>	<b>37.59</b>	<b>49.58</b>	<b>67.36</b>	<b>0.19</b>	<b>15.54</b>	<b>5.87</b>
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<b>Phase 3 Utility Trenching</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2027 Summer</b>						
	Off-Road	0.6515	5.4135	9.1328	0.0138	0.3174	0.292
	<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>	<b>0.3174</b>	<b>0.292</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.018	9.92E-03	0.1938	6.60E-04	0.0828	0.0223
	<b>Total</b>	<b>0.018</b>	<b>9.92E-03</b>	<b>0.1938</b>	<b>6.60E-04</b>	<b>0.0828</b>	<b>0.0223</b>
<b>TOTAL</b>	<b>0.67</b>	<b>5.42</b>	<b>9.33</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>	

Onsite	<b>2027 Winter</b>						
	Off-Road	0.6515	5.4135	9.1328	0.0138	0.3174	0.292
	<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>	<b>0.3174</b>	<b>0.292</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.02	0.0109	0.181	6.30E-04	0.0828	0.0223
	<b>Total</b>	<b>0.02</b>	<b>0.0109</b>	<b>0.181</b>	<b>6.30E-04</b>	<b>0.0828</b>	<b>0.0223</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.42</b>	<b>9.31</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

Onsite	<b>2027</b>						
	Off-Road	0.65	5.41	9.13	0.01	0.32	0.29
	<b>Total</b>	<b>0.65</b>	<b>5.41</b>	<b>9.13</b>	<b>0.01</b>	<b>0.32</b>	<b>0.29</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.19	0.00	0.08	0.02
	<b>Total</b>	<b>0.02</b>	<b>0.01</b>	<b>0.19</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.42</b>	<b>9.33</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

<b>2027 P2 Building Construction, P3 Rough Grading, P2 Architectural Coating, &amp; P3 Utility Trenching</b>		<b>38.26</b>	<b>55.00</b>	<b>76.69</b>	<b>0.21</b>	<b>15.94</b>	<b>6.18</b>
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**Phase 3 Fine Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2027 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	1.52E-02	0.5482	0.2284	2.65E-03	0.0988	3.07E-02
	Worker	0.0451	0.0248	0.4845	1.66E-03	0.207	0.0559
	<b>Total</b>	<b>0.0603</b>	<b>0.573</b>	<b>0.7129</b>	<b>4.31E-03</b>	<b>0.3058</b>	<b>0.0866</b>
<b>TOTAL</b>		<b>2.96</b>	<b>28.52</b>	<b>27.04</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

Onsite	<b>2027 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	1.47E-02	0.5729	0.2352	2.66E-03	0.0988	3.07E-02
	Worker	0.0499	0.0272	0.4525	1.58E-03	0.207	0.0559
	<b>Total</b>	<b>0.0645</b>	<b>0.6001</b>	<b>0.6877</b>	<b>4.24E-03</b>	<b>0.3058</b>	<b>0.0866</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.54</b>	<b>27.02</b>	<b>0.07</b>	<b>5.37</b>	<b>2.66</b>

Onsite	<b>2027</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	<b>Total</b>	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>	<b>2.60</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.57	0.24	0.00	0.10	0.03
	Worker	0.05	0.03	0.48	0.00	0.21	0.06
	<b>Total</b>	<b>0.06</b>	<b>0.60</b>	<b>0.71</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.54</b>	<b>27.04</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

<b>2027 P2 Building Construction, P3 Rough Grading, P2 Architectural Coating, P3 Utility Trenching, &amp; P3 Fine Grading</b>		<b>41.23</b>	<b>83.55</b>	<b>103.73</b>	<b>0.27</b>	<b>21.32</b>	<b>8.87</b>
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<b>2027 P3 Rough Grading, P3 Utility Trenching, &amp; P3 Fine Grading</b>	<b>6.60</b>	<b>62.51</b>	<b>63.41</b>	<b>0.15</b>	<b>11.14</b>	<b>5.69</b>
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<b>2027 P3 Utility Trenching &amp; P3 Fine Grading</b>	<b>3.64</b>	<b>33.97</b>	<b>36.37</b>	<b>0.08</b>	<b>5.77</b>	<b>3.00</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2028 Summer</b>					
Onsite	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	1.51E-02	0.5445	0.2283	2.59E-03	0.0987	3.07E-02
	Worker	0.0429	0.023	0.4643	1.62E-03	0.2069	0.0558
	<b>Total</b>	<b>0.0579</b>	<b>0.5675</b>	<b>0.6926</b>	<b>4.21E-03</b>	<b>0.3057</b>	<b>0.0865</b>
<b>TOTAL</b>		<b>2.96</b>	<b>28.51</b>	<b>27.02</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

		<b>2028 Winter</b>					
Onsite	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	1.45E-02	0.5691	0.235	2.60E-03	0.0988	3.07E-02
	Worker	0.0475	0.0253	0.4338	1.54E-03	0.2069	0.0558
	<b>Total</b>	<b>0.062</b>	<b>0.5944</b>	<b>0.6687</b>	<b>4.14E-03</b>	<b>0.3057</b>	<b>0.0865</b>
<b>TOTAL</b>		<b>2.96</b>	<b>28.54</b>	<b>27.00</b>	<b>0.07</b>	<b>5.37</b>	<b>2.66</b>

		<b>2028</b>					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	<b>Total</b>	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>	<b>2.60</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.57	0.24	0.00	0.10	0.03
	Worker	0.05	0.03	0.46	0.00	0.21	0.06
	<b>Total</b>	<b>0.06</b>	<b>0.59</b>	<b>0.69</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>		<b>2.96</b>	<b>28.54</b>	<b>27.02</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

**Phase 3 Asphalt Paving**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2027 Summer</b>					
Onsite	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0				0	0
	<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0338	0.0186	0.3634	1.25E-03	0.1553	0.0419
	<b>Total</b>	<b>0.0338</b>	<b>0.0186</b>	<b>0.3634</b>	<b>1.25E-03</b>	<b>0.1553</b>	<b>0.0419</b>
<b>TOTAL</b>		<b>0.95</b>	<b>8.60</b>	<b>14.94</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>
		<b>2027 Winter</b>					
Onsite	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0				0	0
	<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0374	0.0204	0.3393	1.19E-03	0.1553	0.0419
	Total	<b>0.0374</b>	<b>0.0204</b>	<b>0.3393</b>	<b>1.19E-03</b>	<b>0.1553</b>	<b>0.0419</b>
<b>TOTAL</b>		<b>0.95</b>	<b>8.60</b>	<b>14.92</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	<b>2027</b>						
	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	Total	<b>0.92</b>	<b>8.58</b>	<b>14.58</b>	<b>0.02</b>	<b>0.42</b>	<b>0.39</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.04	0.02	0.36	0.00	0.16	0.04
	Total	<b>0.04</b>	<b>0.02</b>	<b>0.36</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>		<b>0.95</b>	<b>8.60</b>	<b>14.94</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

<b>2027 P3 Utility Trenching, P3 Fine Grading, &amp; P3 Asphalt Paving</b>	<b>4.59</b>	<b>42.57</b>	<b>51.31</b>	<b>0.10</b>	<b>6.35</b>	<b>3.43</b>
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<b>2027 P3 Fine Grading &amp; P3 Asphalt Paving</b>	<b>3.92</b>	<b>37.15</b>	<b>41.99</b>	<b>0.09</b>	<b>5.95</b>	<b>3.12</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2028 Summer</b>						
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0				0	0
	Total	<b>0.9152</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0322	0.0173	0.3482	1.21E-03	0.1552	0.0419
	Total	<b>0.0322</b>	<b>0.0173</b>	<b>0.3482</b>	<b>1.21E-03</b>	<b>0.1552</b>	<b>0.0419</b>
<b>TOTAL</b>		<b>0.95</b>	<b>8.60</b>	<b>14.93</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	<b>2028 Winter</b>						
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0				0	0
	Total	<b>0.9152</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0357	0.019	0.3253	1.16E-03	0.1552	0.0419
	Total	<b>0.0357</b>	<b>0.019</b>	<b>0.3253</b>	<b>1.16E-03</b>	<b>0.1552</b>	<b>0.0419</b>
<b>TOTAL</b>		<b>0.95</b>	<b>8.60</b>	<b>14.90</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	<b>2028</b>						
	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	Total	<b>0.92</b>	<b>8.58</b>	<b>14.58</b>	<b>0.02</b>	<b>0.42</b>	<b>0.39</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.04	0.02	0.35	0.00	0.16	0.04
	Total	<b>0.04</b>	<b>0.02</b>	<b>0.35</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>		<b>0.95</b>	<b>8.60</b>	<b>14.93</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

**Phase 3 Finishing/Landscaping**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2027 Summer</b>						
	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	Total	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	6.76E-03	3.72E-03	0.0727	2.50E-04	0.0311	8.38E-03
	Total	<b>6.76E-03</b>	<b>3.72E-03</b>	<b>0.0727</b>	<b>2.50E-04</b>	<b>0.0311</b>	<b>8.38E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

Onsite	<b>2027 Winter</b>						
	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	Total	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.48E-03	4.08E-03	0.0679	2.40E-04	0.0311	8.38E-03
	Total	<b>7.48E-03</b>	<b>4.08E-03</b>	<b>0.0679</b>	<b>2.40E-04</b>	<b>0.0311</b>	<b>8.38E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

Onsite	<b>2027</b>						
	Off-Road	0.13	1.33	2.22	0.00	0.05	0.05
	Total	<b>0.13</b>	<b>1.33</b>	<b>2.22</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.00	0.07	0.00	0.03	0.01
	Total	<b>0.01</b>	<b>0.00</b>	<b>0.07</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

<b>2027 P3 Fine Grading, P3 Asphalt Paving, &amp; P3 Finishing/Landscaping</b>		<b>4.06</b>	<b>38.48</b>	<b>44.28</b>	<b>0.09</b>	<b>6.03</b>	<b>3.17</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2028 Summer</b>						
	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	Total	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	6.43E-03	3.46E-03	0.0697	2.40E-04	0.031	8.37E-03
	Total	<b>6.43E-03</b>	<b>3.46E-03</b>	<b>0.0697</b>	<b>2.40E-04</b>	<b>0.031</b>	<b>8.37E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.08</b>	<b>0.06</b>

Onsite	<b>2028 Winter</b>						
	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	Total	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.13E-03	3.79E-03	0.0651	2.30E-04	0.031	8.37E-03
	Total	<b>7.13E-03</b>	<b>3.79E-03</b>	<b>0.0651</b>	<b>2.30E-04</b>	<b>0.031</b>	<b>8.37E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.08</b>	<b>0.06</b>

Onsite	<b>2028</b>						
	Off-Road	0.13	1.33	2.22	0.00	0.05	0.05
	Total	<b>0.13</b>	<b>1.33</b>	<b>2.22</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>



Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.00	0.07	0.00	0.03	0.01
	Total	<b>0.01</b>	<b>0.00</b>	<b>0.07</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.08</b>	<b>0.06</b>

<b>2028 P3 Fine Grading, P3 Asphalt Paving, &amp; P3 Finishing/Landscaping</b>	<b>4.05</b>	<b>38.47</b>	<b>44.24</b>	<b>0.09</b>	<b>6.03</b>	<b>3.17</b>
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**Phase 3 Building Construction**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2028 Summer</b>					
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0132	0.4764	0.1997	2.27E-03	0.0864	0.0269
	Worker	0.105	0.0565	1.1376	3.97E-03	0.507	0.1367
	Total	<b>0.1182</b>	<b>0.5329</b>	<b>1.3373</b>	<b>6.24E-03</b>	<b>0.5934</b>	<b>0.1636</b>
<b>TOTAL</b>		<b>1.49</b>	<b>13.00</b>	<b>17.42</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

Onsite		<b>2028 Winter</b>					
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0127	0.498	0.2056	2.27E-03	0.0864	0.0269
	Worker	0.1164	0.0619	1.0627	3.78E-03	0.507	0.1367
	Total	<b>0.1291</b>	<b>0.5599</b>	<b>1.2683</b>	<b>6.05E-03</b>	<b>0.5934</b>	<b>0.1636</b>
<b>TOTAL</b>		<b>1.50</b>	<b>13.03</b>	<b>17.35</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

Onsite		<b>2028</b>					
	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.50	0.21	0.00	0.09	0.03
	Worker	0.12	0.06	1.14	0.00	0.51	0.14
	Total	<b>0.13</b>	<b>0.56</b>	<b>1.34</b>	<b>0.01</b>	<b>0.59</b>	<b>0.16</b>
<b>TOTAL</b>		<b>1.50</b>	<b>13.03</b>	<b>17.42</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

<b>2028 P3 Finish/Landscape &amp; P3 Building Construction</b>	<b>1.64</b>	<b>14.36</b>	<b>19.71</b>	<b>0.04</b>	<b>1.21</b>	<b>0.72</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2029 Summer</b>					
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.013	0.4733	0.1997	2.22E-03	0.0864	0.0269
	Worker	0.0997	0.0528	1.0944	3.87E-03	0.5069	0.1366
	Total	<b>0.1127</b>	<b>0.5261</b>	<b>1.2941</b>	<b>6.09E-03</b>	<b>0.5932</b>	<b>0.1634</b>
<b>TOTAL</b>		<b>1.48</b>	<b>13.00</b>	<b>17.38</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

Onsite		<b>2029 Winter</b>					
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0.0125	0.4947	0.2054	2.23E-03	0.0864	0.0269
Worker	0.1108	0.0579	1.0226	3.69E-03	0.5069	0.1366
<b>Total</b>	<b>0.1233</b>	<b>0.5526</b>	<b>1.228</b>	<b>5.92E-03</b>	<b>0.5933</b>	<b>0.1634</b>
<b>TOTAL</b>	<b>1.49</b>	<b>13.02</b>	<b>17.31</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

Onsite

**2029**

Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
<b>Total</b>	<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.49	0.21	0.00	0.09	0.03
Worker	0.11	0.06	1.09	0.00	0.51	0.14
<b>Total</b>	<b>0.12</b>	<b>0.55</b>	<b>1.29</b>	<b>0.01</b>	<b>0.59</b>	<b>0.16</b>
<b>TOTAL</b>	<b>1.49</b>	<b>13.02</b>	<b>17.38</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
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Onsite

**2030 Summer**

Off-Road	1.3091	7.9346	16.157	0.031	0.1481	0.1481
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.157</b>	<b>0.031</b>	<b>0.1481</b>	<b>0.1481</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0.0129	0.4703	0.1996	2.18E-03	0.0864	0.0269
Worker	0.0946	0.0496	1.0573	3.79E-03	0.5067	0.1365
<b>Total</b>	<b>0.1075</b>	<b>0.5199</b>	<b>1.2569</b>	<b>5.97E-03</b>	<b>0.5931</b>	<b>0.1633</b>
<b>TOTAL</b>	<b>1.42</b>	<b>8.45</b>	<b>17.41</b>	<b>0.04</b>	<b>0.74</b>	<b>0.31</b>

Onsite

**2030 Winter**

Off-Road	1.3091	7.9346	16.157	0.031	0.1481	0.1481
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.157</b>	<b>0.031</b>	<b>0.1481</b>	<b>0.1481</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0.0124	0.4917	0.2052	2.18E-03	0.0864	0.0269
Worker	0.1053	0.0543	0.988	3.61E-03	0.5067	0.1365
<b>Total</b>	<b>0.1177</b>	<b>0.546</b>	<b>1.1932</b>	<b>5.79E-03</b>	<b>0.5931</b>	<b>0.1633</b>
<b>TOTAL</b>	<b>1.43</b>	<b>8.48</b>	<b>17.35</b>	<b>0.04</b>	<b>0.74</b>	<b>0.31</b>

Onsite

**2030**

Off-Road	1.31	7.93	16.16	0.03	0.15	0.15
<b>Total</b>	<b>1.31</b>	<b>7.93</b>	<b>16.16</b>	<b>0.03</b>	<b>0.15</b>	<b>0.15</b>

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.49	0.21	0.00	0.09	0.03
Worker	0.11	0.05	1.06	0.00	0.51	0.14
<b>Total</b>	<b>0.12</b>	<b>0.55</b>	<b>1.26</b>	<b>0.01</b>	<b>0.59</b>	<b>0.16</b>
<b>TOTAL</b>	<b>1.43</b>	<b>8.48</b>	<b>17.41</b>	<b>0.04</b>	<b>0.74</b>	<b>0.31</b>

**Phase 3 Architectural Coating**

ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
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Onsite

**2029 Summer**

Archit. Coating	10.7078				0	0
Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
<b>Total</b>	<b>10.8787</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0	0	0
Worker	0.0204	0.0108	0.2234	7.90E-04	0.1034	0.0279
<b>Total</b>	<b>0.0204</b>	<b>0.0108</b>	<b>0.2234</b>	<b>7.90E-04</b>	<b>0.1034</b>	<b>0.0279</b>

**TOTAL**

**10.90 1.16 2.03 0.00 0.15 0.08**

Onsite

**2029 Winter**

Archit. Coating	10.7078				0	0
Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
<b>Total</b>	<b>10.8787</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0	0	0
Worker	0.0226	0.0118	0.2087	7.50E-04	0.1034	0.0279
<b>Total</b>	<b>0.0226</b>	<b>0.0118</b>	<b>0.2087</b>	<b>7.50E-04</b>	<b>0.1034</b>	<b>0.0279</b>

**TOTAL**

**10.90 1.16 2.02 0.00 0.15 0.08**

Onsite

**2029**

Archit. Coating	10.71	0.00	0.00	0.00	0.00	0.00
Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
<b>Total</b>	<b>10.88</b>	<b>1.15</b>	<b>1.81</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>

Offsite

Hauling	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.02	0.01	0.22	0.00	0.10	0.03
<b>Total</b>	<b>0.02</b>	<b>0.01</b>	<b>0.22</b>	<b>0.00</b>	<b>0.10</b>	<b>0.03</b>

**TOTAL**

**10.90 1.16 2.03 0.00 0.15 0.08**

**2029 P3 Building Construction & P3 Architectural Coating**

**12.39 14.18 19.41 0.04 1.28 0.74**

Onsite

**2030 Summer**

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
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Archit. Coating	10.7078				0	0
Off-Road	0.1308	0.8563	1.7977	2.97E-03	0.0203	0.0203
<b>Total</b>	<b>10.8386</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.97E-03</b>	<b>0.0203</b>	<b>0.0203</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0	0	0
Worker	0.0193	0.0101	0.2158	7.70E-04	0.1034	0.0279
<b>Total</b>	<b>0.0193</b>	<b>0.0101</b>	<b>0.2158</b>	<b>7.70E-04</b>	<b>0.1034</b>	<b>0.0279</b>

**TOTAL**

**10.86 0.87 2.01 0.00 0.12 0.05**

Onsite

**2030 Winter**

Archit. Coating	10.7078				0	0
Off-Road	0.1308	0.8563	1.7977	2.97E-03	0.0203	0.0203
<b>Total</b>	<b>10.8386</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.97E-03</b>	<b>0.0203</b>	<b>0.0203</b>

Offsite

Hauling	0	0	0	0	0	0
Vendor	0	0	0	0	0	0
Worker	0.0215	0.0111	0.2016	7.40E-04	0.1034	0.0279
<b>Total</b>	<b>0.0215</b>	<b>0.0111</b>	<b>0.2016</b>	<b>7.40E-04</b>	<b>0.1034</b>	<b>0.0279</b>

**TOTAL**

**10.86 0.87 2.00 0.00 0.12 0.05**

Onsite

**2030**

Archit. Coating	10.71	0.00	0.00	0.00	0.00	0.00
Off-Road	0.13	0.86	1.80	0.00	0.02	0.02
<b>Total</b>	<b>10.84</b>	<b>0.86</b>	<b>1.80</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>

Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.22	0.00	0.10	0.03
	Total	<b>0.02</b>	<b>0.01</b>	<b>0.22</b>	<b>0.00</b>	<b>0.10</b>	<b>0.03</b>
<b>TOTAL</b>		<b>10.86</b>	<b>0.87</b>	<b>2.01</b>	<b>0.00</b>	<b>0.12</b>	<b>0.05</b>

<b>2030 P3 Building Construction &amp; P3 Architectural Coating</b>		<b>12.29</b>	<b>9.35</b>	<b>19.43</b>	<b>0.04</b>	<b>0.86</b>	<b>0.36</b>
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<b>MAX DAILY</b>		<b>43</b>	<b>114</b>	<b>104</b>	<b>0.35</b>	<b>25</b>	<b>12</b>
<i>Year 2023</i>		<i>6.62</i>	<i>102.85</i>	<i>59.06</i>	<i>0.30</i>	<i>21.75</i>	<i>11.11</i>
<i>Year 2024</i>		<i>8.69</i>	<i>114.11</i>	<i>82.17</i>	<i>0.35</i>	<i>24.74</i>	<i>12.43</i>
<i>Year 2025</i>		<i>42.52</i>	<i>62.54</i>	<i>63.54</i>	<i>0.15</i>	<i>13.07</i>	<i>6.66</i>
<i>Year 2026</i>		<i>6.29</i>	<i>48.38</i>	<i>63.09</i>	<i>0.18</i>	<i>18.43</i>	<i>8.13</i>
<i>Year 2027</i>		<i>41.23</i>	<i>83.55</i>	<i>103.73</i>	<i>0.27</i>	<i>21.32</i>	<i>8.87</i>
<i>Year 2028</i>		<i>4.05</i>	<i>38.47</i>	<i>44.24</i>	<i>0.09</i>	<i>6.03</i>	<i>3.17</i>
<i>Year 2029</i>		<i>12.39</i>	<i>14.18</i>	<i>19.41</i>	<i>0.04</i>	<i>1.28</i>	<i>0.74</i>
<i>Year 2030</i>		<i>12.29</i>	<i>9.35</i>	<i>19.43</i>	<i>0.04</i>	<i>0.86</i>	<i>0.36</i>

<b>Regional Thresholds</b>		<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Exceeds Thresholds?		No	Yes	No	No	No	No

# Regional Construction Emissions Worksheet - Mitigated

\*CalEEMod, Version 2020.4.0

Note: Emissions highlighted are mitigated emissions.

	Distance (mi)	Percent of Haul Route (%)
Total Haul Route Length: <sup>1</sup>	75	100%
Haul Route in the MDAB: <sup>2</sup>	21.9	29%
Haul Route in the SoCAB:	53.1	71%

<sup>1</sup> Based on distance between the project site and Soil Safe of California at 12328 Hibiscus Road in the City of Adelanto.

<sup>2</sup> Based on the distance at the MDAB and SoCAB border along to the haul route to Soil Safe of California.

Western Remediation Site Preparation			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			<b>2023 Summer</b>					
Onsite	Fugitive Dust						8.4034	4.3188
	Off-Road		0.6967	12.162	22.96	0.0381	0.0621	0.0621
	Total		0.6967	12.162	22.96	0.0381	8.4655	4.3809
Offsite	Hauling		0	0	0	0	0	0
	Vendor		0.0162	0.5607	0.2325	2.88E-03	0.0986	3.06E-02
	Worker		0.0507	0.0325	0.5512	1.70E-03	0.1865	0.0504
	Total		0.0669	0.5932	0.7837	4.58E-03	0.2851	0.081
<b>TOTAL</b>			<b>0.76</b>	<b>12.76</b>	<b>23.74</b>	<b>0.04</b>	<b>8.75</b>	<b>4.46</b>
			<b>2023 Winter</b>					
Onsite	Fugitive Dust						8.4034	4.3188
	Off-Road		0.6967	12.162	22.96	0.0381	0.0621	0.0621
	Total		0.6967	12.162	22.96	0.0381	8.4655	4.3809
Offsite	Hauling		0	0	0	0	0	0
	Vendor		0.0156	0.5857	0.2399	2.88E-03	0.0986	3.06E-02
	Worker		0.0554	0.0356	0.5135	1.62E-03	0.1865	0.0504
	Total		0.071	0.6214	0.7534	4.50E-03	0.2851	0.081
<b>TOTAL</b>			<b>0.77</b>	<b>12.78</b>	<b>23.71</b>	<b>0.04</b>	<b>8.75</b>	<b>4.43</b>
			<b>2023</b>					
Onsite	Fugitive Dust		0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road		0.70	12.16	22.96	0.04	0.06	0.06
	Total		0.70	12.16	22.96	0.04	8.47	4.38
Offsite	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.02	0.59	0.24	0.00	0.10	0.03
	Worker		0.06	0.04	0.55	0.00	0.19	0.05
	Total		0.07	0.62	0.78	0.00	0.29	0.08
<b>TOTAL</b>			<b>0.77</b>	<b>12.78</b>	<b>23.74</b>	<b>0.04</b>	<b>8.75</b>	<b>4.46</b>

Western Remediation Rough Grading			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			<b>2023 Summer</b>					
Onsite	Fugitive Dust						3.9862	1.5698
	Off-Road		1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	Total		1.011	19.2707	36.7226	0.0621	4.0877	1.6713

Offsite	Hauling <sup>1</sup>	0.491352	37.7811456	11.0091168	0.19293	6.0249384	1.845402
	Vendor	0.0323	1.1215	0.465	5.75E-03	0.1972	6.12E-02
	Worker	0.0564	0.0361	0.6124	1.89E-03	0.2072	0.0561
	Total	0.580052	38.9387456	12.0865168	2.01E-01	6.4293384	1.962702
<b>TOTAL</b>		<b>1.59</b>	<b>58.21</b>	<b>48.81</b>	<b>0.26</b>	<b>10.52</b>	<b>3.63</b>

Onsite	<b>2023 Winter</b>						
Fugitive Dust						3.9862	1.5698
Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015	
Total	1.011	19.2707	36.7226	0.0621	4.0877	1.6713	

Offsite	Hauling <sup>1</sup>	0.4797408	39.2694324	11.0441628	0.19293	6.0251508	1.8456144
	Vendor	0.0312	1.1715	0.4798	5.76E-03	0.1973	6.12E-02
	Worker	0.0616	0.0396	0.5705	1.80E-03	0.2072	0.0561
	Total	0.5725408	40.4805324	12.0944628	2.00E-01	6.4296508	1.9629144
<b>TOTAL</b>		<b>1.58</b>	<b>59.75</b>	<b>48.82</b>	<b>0.26</b>	<b>10.52</b>	<b>1.73</b>

Onsite	<b>2023</b>						
Fugitive Dust	0.00	0.00	0.00	0.00	3.99	1.57	
Off-Road	1.01	19.27	36.72	0.06	0.10	0.10	
Total	1.01	19.27	36.72	0.06	4.09	1.67	

Offsite	Hauling	0.49	39.27	11.04	0.19	6.03	1.85
	Vendor	0.03	1.17	0.48	0.01	0.20	0.06
	Worker	0.06	0.04	0.61	0.00	0.21	0.06
	Total	0.58	40.48	12.09	0.20	6.43	1.96
<b>TOTAL</b>		<b>1.59</b>	<b>59.75</b>	<b>48.82</b>	<b>0.26</b>	<b>10.52</b>	<b>3.63</b>

<sup>1</sup> Proportioned based on the segment of the haul route within the South Coast Air Basin compared to the total haul route between the project site and Soil Safe of California at 12328 Hibiscus Road in the City of Adelanto.

**Phase 1 Site Preparation**

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total	
Onsite	<b>2023 Summer</b>						
Fugitive Dust					8.4034	4.3188	
Off-Road	0.6967	12.162	22.96	0.0381	0.0621	0.0621	
Total	0.6967	12.162	22.96	0.0381	8.4655	4.3809	

Offsite	Hauling	0	0	0	0	0
	Vendor	8.08E-03	0.2804	0.1162	1.44E-03	0.0493
	Worker	0.0507	0.0325	0.5512	1.70E-03	0.1865
	Total	0.0588	0.3128	0.6674	3.14E-03	0.2358
<b>TOTAL</b>		<b>0.76</b>	<b>12.47</b>	<b>23.63</b>	<b>0.04</b>	<b>8.70</b>

Onsite	<b>2023 Winter</b>						
Fugitive Dust					8.4034	4.3188	
Off-Road	0.6967	12.162	22.96	0.0381	0.0621	0.0621	
Total	0.6967	12.162	22.96	0.0381	8.4655	4.3809	

Offsite	Hauling	0	0	0	0	0
	Vendor	7.80E-03	0.2929	0.12	1.44E-03	0.0493
	Worker	0.0554	0.0356	0.5135	1.62E-03	0.1865
	Total	0.0632	0.3285	0.6334	3.06E-03	0.2358
<b>TOTAL</b>		<b>0.76</b>	<b>12.49</b>	<b>23.59</b>	<b>0.04</b>	<b>8.70</b>

Onsite		<b>2023</b>						
	Fugitive Dust		0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road		0.70	12.16	22.96	0.04	0.06	0.06
	Total		<b>0.70</b>	<b>12.16</b>	<b>22.96</b>	<b>0.04</b>	<b>8.47</b>	<b>4.38</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.29	0.12	0.00	0.05	0.02
	Worker		0.06	0.04	0.55	0.00	0.19	0.05
	Total		<b>0.06</b>	<b>0.33</b>	<b>0.67</b>	<b>0.00</b>	<b>0.24</b>	<b>0.07</b>
<b>TOTAL</b>			<b>0.76</b>	<b>12.49</b>	<b>23.63</b>	<b>0.04</b>	<b>8.70</b>	<b>4.45</b>

<b>2023 West Remediation Site Preparation &amp; P1 Site Preparation</b>	<b>1.53</b>	<b>25.27</b>	<b>47.37</b>	<b>0.08</b>	<b>17.45</b>	<b>8.91</b>
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<b>2023 West Remediation Grading &amp; P1 Site Preparation</b>	<b>2.35</b>	<b>72.24</b>	<b>72.44</b>	<b>0.30</b>	<b>19.22</b>	<b>8.08</b>
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**Phase 1 Rough Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2023 Summer</b>					
	Fugitive Dust					3.9345	1.562
	Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	Total	1.011	19.2707	36.7226	0.0621	4.036	1.6635
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0162	0.5607	0.2325	2.88E-03	0.0986	3.06E-02
	Worker	0.0564	0.0361	0.6124	1.89E-03	0.2072	0.0561
	Total	0.0725	0.5968	0.8449	4.77E-03	0.3058	0.0866
<b>TOTAL</b>		<b>1.08</b>	<b>19.87</b>	<b>37.57</b>	<b>0.07</b>	<b>4.34</b>	<b>1.75</b>

Onsite		<b>2023 Winter</b>					
	Fugitive Dust					3.9345	1.562
	Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	Total	1.011	19.2707	36.7226	0.0621	4.036	1.6635
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0156	0.5857	0.2399	2.88E-03	0.0986	3.06E-02
	Worker	0.0616	0.0396	0.5705	1.80E-03	0.2072	0.0561
	Total	0.0772	0.6253	0.8104	4.68E-03	0.3058	0.0867
<b>TOTAL</b>		<b>1.09</b>	<b>19.90</b>	<b>37.53</b>	<b>0.07</b>	<b>4.34</b>	<b>1.72</b>

Onsite		<b>2023</b>						
	Fugitive Dust		0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road		1.01	19.27	36.72	0.06	0.10	0.10
	Total		<b>1.01</b>	<b>19.27</b>	<b>36.72</b>	<b>0.06</b>	<b>4.04</b>	<b>1.66</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.02	0.59	0.24	0.00	0.10	0.03
	Worker		0.06	0.04	0.61	0.00	0.21	0.06
	Total		<b>0.08</b>	<b>0.63</b>	<b>0.84</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>			<b>1.09</b>	<b>19.90</b>	<b>37.57</b>	<b>0.07</b>	<b>4.34</b>	<b>1.75</b>

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2024 Summer</b>					
	Fugitive Dust					3.9345	1.562
	Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	Total	1.011	19.2707	36.7226	0.0621	4.036	1.6635

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0159	0.5591	0.2308	2.83E-03	0.0988	3.07E-02
	Worker	0.053	0.0324	0.5708	1.83E-03	0.2072	0.056
<b>TOTAL</b>	<b>Total</b>	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.66E-03</b>	<b>0.3059</b>	<b>0.0867</b>

Onsite	<b>2024 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	<b>Total</b>	<b>1.011</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>4.036</b>	<b>1.6635</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0154	0.5841	0.238	2.83E-03	0.0988	3.07E-02
	Worker	0.0581	0.0356	0.5323	1.74E-03	0.2072	0.056
<b>TOTAL</b>	<b>Total</b>	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.57E-03</b>	<b>0.3059</b>	<b>0.0867</b>

Onsite	<b>2024</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	1.01	19.27	36.72	0.06	0.10	0.10
	<b>Total</b>	<b>1.01</b>	<b>19.27</b>	<b>36.72</b>	<b>0.06</b>	<b>4.04</b>	<b>1.66</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.06	0.04	0.57	0.00	0.21	0.06
<b>TOTAL</b>	<b>Total</b>	<b>0.07</b>	<b>0.62</b>	<b>0.80</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>

**Phase 1 Utility Trenching**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2023 Summer</b>						
	Off-Road	0.5854	5.1948	6.6976	9.88E-03	0.3207	0.295
	<b>Total</b>	<b>0.5854</b>	<b>5.1948</b>	<b>6.6976</b>	<b>9.88E-03</b>	<b>0.3207</b>	<b>0.295</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0225	0.0144	0.245	7.50E-04	0.0829	0.0224
<b>TOTAL</b>	<b>Total</b>	<b>0.0225</b>	<b>0.0144</b>	<b>0.245</b>	<b>7.50E-04</b>	<b>0.0829</b>	<b>0.0224</b>

Onsite	<b>2023 Winter</b>						
	Off-Road	0.5854	5.1948	6.6976	9.88E-03	0.3207	0.295
	<b>Total</b>	<b>0.5854</b>	<b>5.1948</b>	<b>6.6976</b>	<b>9.88E-03</b>	<b>0.3207</b>	<b>0.295</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0246	0.0158	0.2282	7.20E-04	0.0829	0.0224
<b>TOTAL</b>	<b>Total</b>	<b>0.0246</b>	<b>0.0158</b>	<b>0.2282</b>	<b>7.20E-04</b>	<b>0.0829</b>	<b>0.0224</b>

Onsite	<b>2023</b>						
	Off-Road	0.59	5.19	6.70	0.01	0.32	0.30
	<b>Total</b>	<b>0.59</b>	<b>5.19</b>	<b>6.70</b>	<b>0.01</b>	<b>0.32</b>	<b>0.30</b>



Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.02	0.25	0.00	0.08	0.02
	Total	<b>0.02</b>	<b>0.02</b>	<b>0.25</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>		<b>0.61</b>	<b>5.21</b>	<b>6.94</b>	<b>0.01</b>	<b>0.40</b>	<b>0.32</b>

<b>2023 P1 Rough Grading &amp; P1 Utility Trenching</b>	<b>1.70</b>	<b>25.11</b>	<b>44.51</b>	<b>0.08</b>	<b>4.75</b>	<b>2.07</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2024 Summer</b>						
	Off-Road	0.5681	4.9375	6.7068	9.89E-03	0.3065	0.282
	Total	<b>0.5681</b>	<b>4.9375</b>	<b>6.7068</b>	<b>9.89E-03</b>	<b>0.3065</b>	<b>0.282</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0212	0.013	0.2283	7.30E-04	0.0829	0.0224
	Total	<b>0.0212</b>	<b>0.013</b>	<b>0.2283</b>	<b>7.30E-04</b>	<b>0.0829</b>	<b>0.0224</b>
<b>TOTAL</b>		<b>0.59</b>	<b>4.95</b>	<b>6.94</b>	<b>0.01</b>	<b>0.39</b>	<b>0.30</b>

Onsite	<b>2024 Winter</b>						
	Off-Road	0.5681	4.9375	6.7068	9.89E-03	0.3065	0.282
	Total	<b>0.5681</b>	<b>4.9375</b>	<b>6.7068</b>	<b>9.89E-03</b>	<b>0.3065</b>	<b>0.282</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0232	0.0142	0.2129	7.00E-04	0.0829	0.0224
	Total	<b>0.0232</b>	<b>0.0142</b>	<b>0.2129</b>	<b>7.00E-04</b>	<b>0.0829</b>	<b>0.0224</b>
<b>TOTAL</b>		<b>0.59</b>	<b>4.95</b>	<b>6.92</b>	<b>0.01</b>	<b>0.39</b>	<b>0.30</b>

Onsite	<b>2024</b>						
	Off-Road	0.57	4.94	6.71	0.01	0.31	0.28
	Total	<b>0.57</b>	<b>4.94</b>	<b>6.71</b>	<b>0.01</b>	<b>0.31</b>	<b>0.28</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.23	0.00	0.08	0.02
	Total	<b>0.02</b>	<b>0.01</b>	<b>0.23</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>		<b>0.59</b>	<b>4.95</b>	<b>6.94</b>	<b>0.01</b>	<b>0.39</b>	<b>0.30</b>

<b>2024 P1 Rough Grading &amp; P1 Utility Trenching</b>	<b>1.68</b>	<b>24.84</b>	<b>44.46</b>	<b>0.08</b>	<b>4.73</b>	<b>2.05</b>
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<b>Phase 1 Fine Grading</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2024 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	3.2181	32.377	27.7228	0.0621	1.3354	1.2286
	Total	<b>3.2181</b>	<b>32.377</b>	<b>27.7228</b>	<b>0.0621</b>	<b>5.2699</b>	<b>2.7906</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0159	0.5591	0.2308	2.83E-03	0.0988	3.07E-02
	Worker	0.053	0.0324	0.5708	1.83E-03	0.2072	0.056
	Total	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.66E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>3.29</b>	<b>32.97</b>	<b>28.52</b>	<b>0.07</b>	<b>5.58</b>	<b>2.88</b>

Onsite	<b>2024 Winter</b>						
	Fugitive Dust				3.9345	1.562	
	Off-Road	3.2181	32.377	27.7228	0.0621	1.3354	1.2286
	<b>Total</b>	<b>3.2181</b>	<b>32.377</b>	<b>27.7228</b>	<b>0.0621</b>	<b>5.2699</b>	<b>2.7906</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0154	0.5841	0.238	2.83E-03	0.0988	3.07E-02
	Worker	0.0581	0.0356	0.5323	1.74E-03	0.2072	0.056
	<b>Total</b>	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.57E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>	<b>3.29</b>	<b>33.00</b>	<b>28.49</b>	<b>0.07</b>	<b>5.58</b>	<b>2.85</b>	

Onsite	<b>2024</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	3.22	32.38	27.72	0.06	1.34	1.23
	<b>Total</b>	<b>3.22</b>	<b>32.38</b>	<b>27.72</b>	<b>0.06</b>	<b>5.27</b>	<b>2.79</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.06	0.04	0.57	0.00	0.21	0.06
	<b>Total</b>	<b>0.07</b>	<b>0.62</b>	<b>0.80</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>	<b>3.29</b>	<b>33.00</b>	<b>28.52</b>	<b>0.07</b>	<b>5.58</b>	<b>2.88</b>	

<b>2024 P1 Rough Grading, P1 Utility Trenching, &amp; P1 Fine Grading</b>	<b>4.97</b>	<b>57.84</b>	<b>72.98</b>	<b>0.14</b>	<b>10.31</b>	<b>4.93</b>
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<b>2024 P1 Utility Trenching &amp; P1 Fine Grading</b>	<b>3.88</b>	<b>37.95</b>	<b>35.46</b>	<b>0.08</b>	<b>5.97</b>	<b>3.18</b>
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**Phase 1 Asphalt Paving**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2024 Summer</b>						
	Off-Road	0.9882	9.5246	14.6258	0.0228	0.4685	0.431
	Paving	3.02E-02				0	0
	<b>Total</b>	<b>1.0184</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>	<b>0.4685</b>	<b>0.431</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0397	0.0243	0.4281	1.37E-03	0.1554	0.042
	<b>Total</b>	<b>0.0397</b>	<b>0.0243</b>	<b>0.4281</b>	<b>1.37E-03</b>	<b>0.1554</b>	<b>0.042</b>
<b>TOTAL</b>	<b>1.06</b>	<b>9.55</b>	<b>15.05</b>	<b>0.02</b>	<b>0.62</b>	<b>0.47</b>	

Onsite	<b>2024 Winter</b>						
	Off-Road	0.9882	9.5246	14.6258	0.0228	0.4685	0.431
	Paving	3.02E-02				0	0
	<b>Total</b>	<b>1.0184</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>	<b>0.4685</b>	<b>0.431</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0436	0.0267	0.3993	1.30E-03	0.1554	0.042
	<b>Total</b>	<b>0.0436</b>	<b>0.0267</b>	<b>0.3993</b>	<b>1.30E-03</b>	<b>0.1554</b>	<b>0.042</b>
<b>TOTAL</b>	<b>1.06</b>	<b>9.55</b>	<b>15.03</b>	<b>0.02</b>	<b>0.62</b>	<b>0.47</b>	

Onsite	<b>2024</b>						
	Off-Road	0.99	9.52	14.63	0.02	0.47	0.43
	Paving	0.03	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>1.02</b>	<b>9.52</b>	<b>14.63</b>	<b>0.02</b>	<b>0.47</b>	<b>0.43</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.04	0.03	0.43	0.00	0.16	0.04
	Total	<b>0.04</b>	<b>0.03</b>	<b>0.43</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>		<b>1.06</b>	<b>9.55</b>	<b>15.05</b>	<b>0.02</b>	<b>0.62</b>	<b>0.47</b>

<b>2024 P1 Fine Grading &amp; P1 Asphalt Paving</b>		<b>4.35</b>	<b>42.55</b>	<b>43.58</b>	<b>0.09</b>	<b>6.20</b>	<b>3.35</b>
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**Phase 1 Finishing/Landscaping**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2024 Summer</b>					
	Off-Road	0.1433	1.4424	2.2265	3.10E-03	0.0662	0.0609
	Total	<b>0.1433</b>	<b>1.4424</b>	<b>2.2265</b>	<b>3.10E-03</b>	<b>0.0662</b>	<b>0.0609</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.95E-03	4.86E-03	0.0856	2.70E-04	0.0311	8.40E-03
	Total	<b>7.95E-03</b>	<b>4.86E-03</b>	<b>0.0856</b>	<b>2.70E-04</b>	<b>0.0311</b>	<b>8.40E-03</b>
<b>TOTAL</b>		<b>0.15</b>	<b>1.45</b>	<b>2.31</b>	<b>0.00</b>	<b>0.10</b>	<b>0.07</b>

Onsite		<b>2024 Winter</b>					
	Off-Road	0.1433	1.4424	2.2265	3.10E-03	0.0662	0.0609
	Total	<b>0.1433</b>	<b>1.4424</b>	<b>2.2265</b>	<b>3.10E-03</b>	<b>0.0662</b>	<b>0.0609</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	8.71E-03	5.33E-03	0.0799	2.60E-04	0.0311	8.40E-03
	Total	<b>8.71E-03</b>	<b>5.33E-03</b>	<b>0.0799</b>	<b>2.60E-04</b>	<b>0.0311</b>	<b>8.40E-03</b>
<b>TOTAL</b>		<b>0.15</b>	<b>1.45</b>	<b>2.31</b>	<b>0.00</b>	<b>0.10</b>	<b>0.07</b>

Onsite		<b>2024</b>					
	Off-Road	0.14	1.44	2.23	0.00	0.07	0.06
	Total	<b>0.14</b>	<b>1.44</b>	<b>2.23</b>	<b>0.00</b>	<b>0.07</b>	<b>0.06</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.01	0.09	0.00	0.03	0.01
	Total	<b>0.01</b>	<b>0.01</b>	<b>0.09</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>
<b>TOTAL</b>		<b>0.15</b>	<b>1.45</b>	<b>2.31</b>	<b>0.00</b>	<b>0.10</b>	<b>0.07</b>

<b>2024 P1 Fine Grading, P1 Asphalt Paving, &amp; P1 Finish/Landscape</b>		<b>4.51</b>	<b>44.00</b>	<b>45.89</b>	<b>0.09</b>	<b>6.30</b>	<b>3.42</b>
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**Phase 1 Building Construction**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2024 Summer</b>					
	Off-Road	0.5335	10.9122	17.8738	0.027	0.0846	0.0846
	Total	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.027</b>	<b>0.0846</b>	<b>0.0846</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0597	2.0966	0.8654	1.06E-02	0.3703	0.1152
	Worker	0.6251	0.3822	6.7356	0.0216	2.4444	0.6607
	Total	<b>0.6848</b>	<b>2.4788</b>	<b>7.601</b>	<b>0.0322</b>	<b>2.8147</b>	<b>0.7759</b>
<b>TOTAL</b>		<b>1.22</b>	<b>13.39</b>	<b>25.47</b>	<b>0.06</b>	<b>2.90</b>	<b>0.86</b>

Onsite	<b>2024 Winter</b>						
	Off-Road	0.5335	10.9122	17.8738	0.027	0.0846	0.0846
	Total	0.5335	10.9122	17.8738	0.027	0.0846	0.0846
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0576	2.1903	0.8926	1.06E-02	0.3704	0.1152
	Worker	0.6855	0.4196	6.2816	0.0205	2.4444	0.6607
	Total	0.7431	2.6099	7.1742	0.0311	2.8147	0.776
<b>TOTAL</b>		<b>1.28</b>	<b>13.52</b>	<b>25.05</b>	<b>0.06</b>	<b>2.90</b>	<b>0.86</b>

Onsite	<b>2024</b>						
	Off-Road	0.53	10.91	17.87	0.03	0.08	0.08
	Total	0.53	10.91	17.87	0.03	0.08	0.08
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.06	2.19	0.89	0.01	0.37	0.12
	Worker	0.69	0.42	6.74	0.02	2.44	0.66
	Total	0.74	2.61	7.60	0.03	2.81	0.78
<b>TOTAL</b>		<b>1.28</b>	<b>13.52</b>	<b>25.47</b>	<b>0.06</b>	<b>2.90</b>	<b>0.86</b>

<b>2024 P1 Asphalt Paving, P1 Finish/Landscape, &amp; P1 Building</b>	<b>2.49</b>	<b>24.52</b>	<b>42.84</b>	<b>0.09</b>	<b>3.62</b>	<b>1.40</b>
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<b>2024 P1 Finish/Landscape &amp; P1 Building</b>	<b>1.43</b>	<b>14.97</b>	<b>27.79</b>	<b>0.06</b>	<b>3.00</b>	<b>0.93</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>						
	Off-Road	0.5335	10.9122	17.8738	0.027	0.0846	0.0846
	Total	0.5335	10.9122	17.8738	0.027	0.0846	0.0846
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0588	2.0863	0.8619	1.04E-02	0.3704	0.1152
	Worker	0.5904	0.3464	6.336	0.0208	2.4438	0.6602
	Total	0.6492	2.4327	7.1978	0.0312	2.8142	0.7755
<b>TOTAL</b>		<b>1.18</b>	<b>13.34</b>	<b>25.07</b>	<b>0.06</b>	<b>2.90</b>	<b>0.86</b>

Onsite	<b>2025 Winter</b>						
	Off-Road	0.5335	10.9122	17.8738	0.027	0.0846	0.0846
	Total	0.5335	10.9122	17.8738	0.027	0.0846	0.0846
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0567	2.1797	0.8885	1.04E-02	0.3704	0.1153
	Worker	0.6493	0.3802	5.9128	0.0198	2.4438	0.6602
	Total	0.706	2.5599	6.8013	0.0302	2.8142	0.7755
<b>TOTAL</b>		<b>1.24</b>	<b>13.47</b>	<b>24.68</b>	<b>0.06</b>	<b>2.90</b>	<b>0.86</b>

Onsite	<b>2025</b>						
	Off-Road	0.53	10.91	17.87	0.03	0.08	0.08
	Total	0.53	10.91	17.87	0.03	0.08	0.08
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.06	2.18	0.89	0.01	0.37	0.12
	Worker	0.65	0.38	6.34	0.02	2.44	0.66
	Total	0.71	2.56	7.20	0.03	2.81	0.78
<b>TOTAL</b>		<b>1.24</b>	<b>13.47</b>	<b>25.07</b>	<b>0.06</b>	<b>2.90</b>	<b>0.86</b>

**Phase 1 Architectural Coating**

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			<b>2025 Summer</b>					
Onsite	Archit. Coating		36.3648				0	0
	Off-Road		0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	<b>Total</b>		<b>36.5357</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>
Offsite	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		0.1176	0.069	1.2618	4.15E-03	0.4867	0.1315
	<b>Total</b>		<b>0.1176</b>	<b>0.069</b>	<b>1.2618</b>	<b>4.15E-03</b>	<b>0.4867</b>	<b>0.1315</b>
<b>TOTAL</b>			<b>36.65</b>	<b>1.21</b>	<b>3.07</b>	<b>0.01</b>	<b>0.54</b>	<b>0.18</b>
			<b>2025 Winter</b>					
Onsite	Archit. Coating		36.3648				0	0
	Off-Road		0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	<b>Total</b>		<b>36.5357</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>
Offsite	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		0.1293	0.0757	1.1776	3.95E-03	0.4867	0.1315
	<b>Total</b>		<b>0.1293</b>	<b>0.0757</b>	<b>1.1776</b>	<b>3.95E-03</b>	<b>0.4867</b>	<b>0.1315</b>
<b>TOTAL</b>			<b>36.67</b>	<b>1.22</b>	<b>2.99</b>	<b>0.01</b>	<b>0.54</b>	<b>0.18</b>
			<b>2025</b>					
Onsite	Archit. Coating		36.36	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.17	1.15	1.81	0.00	0.05	0.05
	<b>Total</b>		<b>36.54</b>	<b>1.15</b>	<b>1.81</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>
Offsite	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.13	0.08	1.26	0.00	0.49	0.13
	<b>Total</b>		<b>0.13</b>	<b>0.08</b>	<b>1.26</b>	<b>0.00</b>	<b>0.49</b>	<b>0.13</b>
<b>TOTAL</b>			<b>36.67</b>	<b>1.22</b>	<b>3.07</b>	<b>0.01</b>	<b>0.54</b>	<b>0.18</b>

**Eastern Remediation Site Preparation**

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
			<b>2024 Summer</b>					
Onsite	Fugitive Dust						8.4034	4.3188
	Off-Road		0.6967	12.162	22.96	0.0381	0.0621	0.0621
	<b>Total</b>		<b>0.6967</b>	<b>12.162</b>	<b>22.96</b>	<b>0.0381</b>	<b>8.4655</b>	<b>4.3809</b>
Offsite	Hauling		0	0	0	0	0	0
	Vendor		0.0318	1.1182	0.4615	5.65E-03	0.1975	6.14E-02
	Worker		0.0477	0.0292	0.5137	1.64E-03	0.1864	0.0504
	<b>Total</b>		<b>0.0795</b>	<b>1.1473</b>	<b>0.9753</b>	<b>7.29E-03</b>	<b>0.3839</b>	<b>0.1118</b>
<b>TOTAL</b>			<b>0.78</b>	<b>13.31</b>	<b>23.94</b>	<b>0.05</b>	<b>8.85</b>	<b>4.49</b>
			<b>2024 Winter</b>					
Onsite	Fugitive Dust						8.4034	4.3188
	Off-Road		0.6967	12.162	22.96	0.0381	0.0621	0.0621
	<b>Total</b>		<b>0.6967</b>	<b>12.162</b>	<b>22.96</b>	<b>0.0381</b>	<b>8.4655</b>	<b>4.3809</b>
Offsite	Hauling		0	0	0	0	0	0
	Vendor		0.0307	1.1681	0.4761	5.66E-03	0.1975	6.15E-02
	Worker		0.0523	0.032	0.4791	1.57E-03	0.1864	0.0504
	<b>Total</b>		<b>0.083</b>	<b>1.2002</b>	<b>0.9552</b>	<b>7.23E-03</b>	<b>0.384</b>	<b>0.1119</b>
<b>TOTAL</b>			<b>0.78</b>	<b>13.36</b>	<b>23.92</b>	<b>0.05</b>	<b>8.85</b>	<b>4.43</b>

		2024					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	0.70	12.16	22.96	0.04	0.06	0.06
	<b>Total</b>	<b>0.70</b>	<b>12.16</b>	<b>22.96</b>	<b>0.04</b>	<b>8.47</b>	<b>4.38</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.03	1.17	0.48	0.01	0.20	0.06
	Worker	0.05	0.03	0.51	0.00	0.19	0.05
	<b>Total</b>	<b>0.08</b>	<b>1.20</b>	<b>0.98</b>	<b>0.01</b>	<b>0.38</b>	<b>0.11</b>
<b>TOTAL</b>		<b>0.78</b>	<b>13.36</b>	<b>23.94</b>	<b>0.05</b>	<b>8.85</b>	<b>4.49</b>

### Eastern Remediation Rough Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2024 Summer</b>					
Onsite	Fugitive Dust					3.9843	1.5695
	Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	<b>Total</b>	<b>1.011</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>4.0858</b>	<b>1.671</b>
Offsite	Hauling <sup>1</sup>	0.4660764	36.1350456	10.915236	0.1828764	5.8157244	1.7886912
	Vendor	0.0159	0.5591	0.2308	2.83E-03	0.0988	3.07E-02
	Worker	0.053	0.0324	0.5708	1.83E-03	0.2072	0.056
	<b>Total</b>	<b>0.5349764</b>	<b>36.7265456</b>	<b>11.716836</b>	<b>1.88E-01</b>	<b>6.1217244</b>	<b>1.8753912</b>
<b>TOTAL</b>		<b>1.55</b>	<b>56.00</b>	<b>48.44</b>	<b>0.25</b>	<b>10.21</b>	<b>3.55</b>

		<b>2024 Winter</b>					
Onsite	Fugitive Dust					3.9843	1.5695
	Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	<b>Total</b>	<b>1.011</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>4.0858</b>	<b>1.671</b>
Offsite	Hauling <sup>1</sup>	0.45489	37.5581256	10.9479456	0.1828764	5.815866	1.7888328
	Vendor	0.0154	0.5841	0.238	2.83E-03	0.0988	3.07E-02
	Worker	0.0581	0.0356	0.5323	1.74E-03	0.2072	0.056
	<b>Total</b>	<b>0.52839</b>	<b>38.1778256</b>	<b>11.7182456</b>	<b>1.87E-01</b>	<b>6.121866</b>	<b>1.8755328</b>
<b>TOTAL</b>		<b>1.54</b>	<b>57.45</b>	<b>48.44</b>	<b>0.25</b>	<b>10.21</b>	<b>1.73</b>

		2024					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	3.98	1.57
	Off-Road	1.01	19.27	36.72	0.06	0.10	0.10
	<b>Total</b>	<b>1.01</b>	<b>19.27</b>	<b>36.72</b>	<b>0.06</b>	<b>4.09</b>	<b>1.67</b>
Offsite	Hauling	0.47	37.56	10.95	0.18	5.82	1.79
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.06	0.04	0.57	0.00	0.21	0.06
	<b>Total</b>	<b>0.53</b>	<b>38.18</b>	<b>11.72</b>	<b>0.19</b>	<b>6.12</b>	<b>1.88</b>
<b>TOTAL</b>		<b>1.55</b>	<b>57.45</b>	<b>48.44</b>	<b>0.25</b>	<b>10.21</b>	<b>3.55</b>

<sup>1</sup> Proportioned based on the segment of the haul route within the South Coast Air Basin compared to the total haul route between the project site and Soil Safe of California at 12328 Hibiscus Road in the City of Adelanto.

### Phase 2 Site Preparation

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2024 Summer</b>					
Onsite	Fugitive Dust					8.4034	4.3188
	Off-Road	0.6967	12.162	22.96	0.0381	0.0621	0.0621
	<b>Total</b>	<b>0.6967</b>	<b>12.162</b>	<b>22.96</b>	<b>0.0381</b>	<b>8.4655</b>	<b>4.3809</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.96E-03	0.2795	0.1154	1.41E-03	0.0494	1.54E-02
	Worker	0.0477	0.0292	0.5137	1.64E-03	0.1864	0.0504
	Total	<b>0.0556</b>	<b>0.3087</b>	<b>0.6291</b>	<b>3.05E-03</b>	<b>0.2358</b>	<b>0.0658</b>
<b>TOTAL</b>		<b>0.75</b>	<b>12.47</b>	<b>23.59</b>	<b>0.04</b>	<b>8.70</b>	<b>4.45</b>

Onsite	<b>2024 Winter</b>						
	Fugitive Dust					8.4034	4.3188
	Off-Road	0.6967	12.162	22.96	0.0381	0.0621	0.0621
	Total	<b>0.6967</b>	<b>12.162</b>	<b>22.96</b>	<b>0.0381</b>	<b>8.4655</b>	<b>4.3809</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.68E-03	0.292	0.119	1.42E-03	0.0494	1.54E-02
	Worker	0.0523	0.032	0.4791	1.57E-03	0.1864	0.0504
	Total	<b>0.06</b>	<b>0.324</b>	<b>0.5981</b>	<b>2.99E-03</b>	<b>0.2358</b>	<b>0.0658</b>
<b>TOTAL</b>		<b>0.76</b>	<b>12.49</b>	<b>23.56</b>	<b>0.04</b>	<b>8.70</b>	<b>4.43</b>

Onsite	<b>2024</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	0.70	12.16	22.96	0.04	0.06	0.06
	Total	<b>0.70</b>	<b>12.16</b>	<b>22.96</b>	<b>0.04</b>	<b>8.47</b>	<b>4.38</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.29	0.12	0.00	0.05	0.02
	Worker	0.05	0.03	0.51	0.00	0.19	0.05
	Total	<b>0.06</b>	<b>0.32</b>	<b>0.63</b>	<b>0.00</b>	<b>0.24</b>	<b>0.07</b>
<b>TOTAL</b>		<b>0.76</b>	<b>12.49</b>	<b>23.59</b>	<b>0.04</b>	<b>8.70</b>	<b>4.45</b>

<b>2024 P1 Building Construction, P2 Site Preparation, &amp; East Remediation Site Preparation</b>	<b>2.81</b>	<b>39.37</b>	<b>73.00</b>	<b>0.15</b>	<b>20.45</b>	<b>9.80</b>
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<b>2024 P1 Building Construction, P2 Site Preparation, &amp; East Remediation Grading</b>	<b>3.58</b>	<b>83.46</b>	<b>97.50</b>	<b>0.35</b>	<b>21.81</b>	<b>8.85</b>
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<b>2024 P1 Building Construction &amp; P2 Site Preparation</b>	<b>2.03</b>	<b>26.01</b>	<b>49.06</b>	<b>0.10</b>	<b>11.60</b>	<b>5.31</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>						
	Fugitive Dust					8.4034	4.3188
	Off-Road	0.6967	12.162	22.96	0.0381	0.0621	0.0621
	Total	<b>0.6967</b>	<b>12.162</b>	<b>22.96</b>	<b>0.0381</b>	<b>8.4655</b>	<b>4.3809</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.84E-03	0.2782	0.1149	1.38E-03	0.0494	1.54E-02
	Worker	0.045	0.0264	0.4833	1.59E-03	0.1864	0.0504
	Total	<b>0.0529</b>	<b>0.3046</b>	<b>0.5982</b>	<b>2.97E-03</b>	<b>0.2358</b>	<b>0.0657</b>
<b>TOTAL</b>		<b>0.75</b>	<b>12.47</b>	<b>23.56</b>	<b>0.04</b>	<b>8.70</b>	<b>4.45</b>

Onsite	<b>2025 Winter</b>						
	Fugitive Dust					8.4034	4.3188
	Off-Road	0.6967	12.162	22.96	0.0381	0.0621	0.0621
	Total	<b>0.6967</b>	<b>12.162</b>	<b>22.96</b>	<b>0.0381</b>	<b>8.4655</b>	<b>4.3809</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.56E-03	0.2906	0.1185	1.39E-03	0.0494	1.54E-02
	Worker	0.0495	0.029	0.451	1.51E-03	0.1864	0.0504
	Total	<b>0.0571</b>	<b>0.3196</b>	<b>0.5695</b>	<b>2.90E-03</b>	<b>0.2358</b>	<b>0.0657</b>
<b>TOTAL</b>		<b>0.75</b>	<b>12.48</b>	<b>23.53</b>	<b>0.04</b>	<b>8.70</b>	<b>4.43</b>

Onsite	<b>2025</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	0.70	12.16	22.96	0.04	0.06	0.06
	Total	<b>0.70</b>	<b>12.16</b>	<b>22.96</b>	<b>0.04</b>	<b>8.47</b>	<b>4.38</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.29	0.12	0.00	0.05	0.02
	Worker	0.05	0.03	0.48	0.00	0.19	0.05
	Total	<b>0.06</b>	<b>0.32</b>	<b>0.60</b>	<b>0.00</b>	<b>0.24</b>	<b>0.07</b>
<b>TOTAL</b>		<b>0.75</b>	<b>12.48</b>	<b>23.56</b>	<b>0.04</b>	<b>8.70</b>	<b>4.45</b>

<b>2025 P1 Building Construction &amp; P2 Site Preparation</b>		<b>1.99</b>	<b>25.95</b>	<b>48.63</b>	<b>0.10</b>	<b>11.60</b>	<b>5.31</b>
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**Phase 2 Rough Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	Total	1.011	19.2707	36.7226	0.0621	4.0361	1.6635

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0157	0.5563	0.2298	2.77E-03	0.0988	3.07E-02
	Worker	0.05	0.0294	0.5369	1.76E-03	0.2071	0.056
	Total	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.53E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>1.08</b>	<b>19.86</b>	<b>37.49</b>	<b>0.07</b>	<b>4.34</b>	<b>1.75</b>

Onsite	<b>2025 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	1.011	19.2707	36.7226	0.0621	0.1015	0.1015
	Total	1.011	19.2707	36.7226	0.0621	4.0361	1.6635

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0151	0.5813	0.2369	2.77E-03	0.0988	3.07E-02
	Worker	0.055	0.0322	0.5011	1.68E-03	0.2071	0.056
	Total	<b>0.0702</b>	<b>0.6135</b>	<b>0.738</b>	<b>4.45E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>1.08</b>	<b>19.88</b>	<b>37.46</b>	<b>0.07</b>	<b>4.34</b>	<b>1.72</b>

Onsite	<b>2025</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	1.01	19.27	36.72	0.06	0.10	0.10
	Total	<b>1.01</b>	<b>19.27</b>	<b>36.72</b>	<b>0.06</b>	<b>4.04</b>	<b>1.66</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.06	0.03	0.54	0.00	0.21	0.06
	Total	<b>0.07</b>	<b>0.61</b>	<b>0.77</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>		<b>1.08</b>	<b>19.88</b>	<b>37.49</b>	<b>0.07</b>	<b>4.34</b>	<b>1.75</b>

<b>2025 P1 Building Construction &amp; P2 Rough Grading</b>		<b>2.36</b>	<b>33.41</b>	<b>62.96</b>	<b>0.13</b>	<b>7.24</b>	<b>2.61</b>
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<b>2025 P1 Building Construction, P1 Architectural Coating, &amp; P2 Rough Grading</b>	<b>39.02</b>	<b>34.63</b>	<b>66.04</b>	<b>0.13</b>	<b>7.78</b>	<b>2.79</b>
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**Phase 2 Utility Trenching**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>						
	Off-Road	0.6515	5.4135	9.1328	0.0138	0.3174	0.292
	Total	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>	<b>0.3174</b>	<b>0.292</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.02	0.0117	0.2148	7.10E-04	0.0828	0.0224
	Total	<b>0.02</b>	<b>0.0117</b>	<b>0.2148</b>	<b>7.10E-04</b>	<b>0.0828</b>	<b>0.0224</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.43</b>	<b>9.35</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

Onsite	<b>2025 Winter</b>						
	Off-Road	0.6515	5.4135	9.1328	0.0138	0.3174	0.292
	Total	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>	<b>0.3174</b>	<b>0.292</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.022	0.0129	0.2004	6.70E-04	0.0828	0.0224
	Total	<b>0.022</b>	<b>0.0129</b>	<b>0.2004</b>	<b>6.70E-04</b>	<b>0.0828</b>	<b>0.0224</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.43</b>	<b>9.33</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

Onsite	<b>2025</b>						
	Off-Road	0.65	5.41	9.13	0.01	0.32	0.29
	Total	<b>0.65</b>	<b>5.41</b>	<b>9.13</b>	<b>0.01</b>	<b>0.32</b>	<b>0.29</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.21	0.00	0.08	0.02
	Total	<b>0.02</b>	<b>0.01</b>	<b>0.21</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.43</b>	<b>9.35</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

<b>2025 P1 Building Construction, P2 Rough Grading, P1 Architectural Coating, &amp; P2 Utility Trenching</b>	<b>39.70</b>	<b>40.05</b>	<b>75.38</b>	<b>0.15</b>	<b>8.18</b>	<b>3.11</b>
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<b>2025 P2 Rough Grading &amp; P2 Utility Trenching</b>	<b>1.75</b>	<b>25.31</b>	<b>46.84</b>	<b>0.08</b>	<b>4.74</b>	<b>2.06</b>
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**Phase 2 Fine Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0157	0.5563	0.2298	2.77E-03	0.0988	3.07E-02
	Worker	0.05	0.0294	0.5369	1.76E-03	0.2071	0.056
	Total	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.53E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.53</b>	<b>27.10</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

Onsite	<b>2025 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0151	0.5813	0.2369	2.77E-03	0.0988	3.07E-02
	Worker	0.055	0.0322	0.5011	1.68E-03	0.2071	0.056
	Total	<b>0.0702</b>	<b>0.6135</b>	<b>0.738</b>	<b>4.45E-03</b>	<b>0.3059</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.56</b>	<b>27.07</b>	<b>0.07</b>	<b>5.37</b>	<b>2.66</b>

Onsite	<b>2025</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	Total	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>	<b>2.60</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.06	0.03	0.54	0.00	0.21	0.06
	Total	<b>0.07</b>	<b>0.61</b>	<b>0.77</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.56</b>	<b>27.10</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

<b>2025 P2 Rough Grading, P2 Trenching &amp; P2 Fine Grading</b>	<b>4.73</b>	<b>53.87</b>	<b>73.93</b>	<b>0.15</b>	<b>10.11</b>	<b>4.75</b>
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<b>2025 P2 Trenching &amp; P2 Fine Grading</b>	<b>3.64</b>	<b>33.98</b>	<b>36.45</b>	<b>0.08</b>	<b>5.77</b>	<b>3.00</b>
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**Phase 2 Asphalt Paving**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2025 Summer</b>						
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0.0445				0	0
	Total	<b>0.9597</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0375	0.022	0.4027	1.32E-03	0.1553	0.042
	Total	<b>0.0375</b>	<b>0.022</b>	<b>0.4027</b>	<b>1.32E-03</b>	<b>0.1553</b>	<b>0.042</b>
<b>TOTAL</b>		<b>1.00</b>	<b>8.60</b>	<b>14.98</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	<b>2025 Winter</b>						
	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0.0445				0	0
	Total	<b>0.9597</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0413	0.0242	0.3758	1.26E-03	0.1553	0.042
	Total	<b>0.0413</b>	<b>0.0242</b>	<b>0.3758</b>	<b>1.26E-03</b>	<b>0.1553</b>	<b>0.042</b>
<b>TOTAL</b>		<b>1.00</b>	<b>8.61</b>	<b>14.95</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	<b>2025</b>						
	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	0.04	0.00	0.00	0.00	0.00	0.00
	Total	<b>0.96</b>	<b>8.58</b>	<b>14.58</b>	<b>0.02</b>	<b>0.42</b>	<b>0.39</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.04	0.02	0.40	0.00	0.16	0.04
	Total	<b>0.04</b>	<b>0.02</b>	<b>0.40</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>		<b>1.00</b>	<b>8.61</b>	<b>14.98</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

<b>2025 P2 Fine Grading &amp; P2 Asphalt Paving</b>	<b>3.97</b>	<b>37.16</b>	<b>42.08</b>	<b>0.09</b>	<b>5.95</b>	<b>3.12</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2026 Summer</b>					
Onsite	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0.0445				0	0
	<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0356	0.0202	0.3814	1.28E-03	0.1553	0.0419
	<b>Total</b>	<b>0.0356</b>	<b>0.0202</b>	<b>0.3814</b>	<b>1.28E-03</b>	<b>0.1553</b>	<b>0.0419</b>
<b>TOTAL</b>		<b>1.00</b>	<b>8.60</b>	<b>14.96</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0.0445				0	0
	<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0393	0.0221	0.3561	1.22E-03	0.1553	0.0419
	<b>Total</b>	<b>0.0393</b>	<b>0.0221</b>	<b>0.3561</b>	<b>1.22E-03</b>	<b>0.1553</b>	<b>0.0419</b>
<b>TOTAL</b>		<b>1.00</b>	<b>8.60</b>	<b>14.93</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	0.04	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>0.96</b>	<b>8.58</b>	<b>14.58</b>	<b>0.02</b>	<b>0.42</b>	<b>0.39</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.04	0.02	0.38	0.00	0.16	0.04
	<b>Total</b>	<b>0.04</b>	<b>0.02</b>	<b>0.38</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>		<b>1.00</b>	<b>8.60</b>	<b>14.96</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

<b>Phase 2 Finishing/Landscaping</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2025 Summer</b>					
Onsite	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.50E-03	4.40E-03	0.0805	2.60E-04	0.0311	8.39E-03
	<b>Total</b>	<b>7.50E-03</b>	<b>4.40E-03</b>	<b>0.0805</b>	<b>2.60E-04</b>	<b>0.0311</b>	<b>8.39E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.30</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

Onsite	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	8.25E-03	4.83E-03	0.0752	2.50E-04	0.0311	8.39E-03
	<b>Total</b>	<b>8.25E-03</b>	<b>4.83E-03</b>	<b>0.0752</b>	<b>2.50E-04</b>	<b>0.0311</b>	<b>8.39E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.30</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

		<b>2025</b>					
Onsite	Off-Road	0.13	1.33	2.22	0.00	0.05	0.05
	Total	<b>0.13</b>	<b>1.33</b>	<b>2.22</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.00	0.08	0.00	0.03	0.01
	Total	<b>0.01</b>	<b>0.00</b>	<b>0.08</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.30</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

<b>2025 P2 Fine Grading, P2 Asphalt Paving, &amp; P2 Finish/Landscape</b>	<b>4.11</b>	<b>38.50</b>	<b>44.38</b>	<b>0.09</b>	<b>6.03</b>	<b>3.17</b>
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<b>2025 P2 Asphalt Paving, &amp; P2 Finish/Landscape</b>	<b>1.14</b>	<b>9.94</b>	<b>17.28</b>	<b>0.03</b>	<b>0.66</b>	<b>0.48</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2026 Summer</b>					
Onsite	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	Total	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.12E-03	4.03E-03	0.0763	2.60E-04	0.0311	8.39E-03
	Total	<b>7.12E-03</b>	<b>4.03E-03</b>	<b>0.0763</b>	<b>2.60E-04</b>	<b>0.0311</b>	<b>8.39E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.30</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

Onsite	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	Total	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.85E-03	4.42E-03	0.0712	2.40E-04	0.0311	8.39E-03
	Total	<b>7.85E-03</b>	<b>4.42E-03</b>	<b>0.0712</b>	<b>2.40E-04</b>	<b>0.0311</b>	<b>8.39E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

		<b>2026</b>					
Onsite	Off-Road	0.13	1.33	2.22	0.00	0.05	0.05
	Total	<b>0.13</b>	<b>1.33</b>	<b>2.22</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.00	0.08	0.00	0.03	0.01
	Total	<b>0.01</b>	<b>0.00</b>	<b>0.08</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.30</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2025 Summer</b>					
Onsite	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1725	6.1197	2.5282	0.0305	1.0864	0.338
	Worker	1.7136	1.0055	18.3904	0.0604	7.0933	1.9164
	Total	<b>1.8861</b>	<b>7.1252</b>	<b>20.9186</b>	<b>0.0909</b>	<b>8.1797</b>	<b>2.2544</b>
<b>TOTAL</b>		<b>3.25</b>	<b>19.59</b>	<b>37.00</b>	<b>0.12</b>	<b>8.71</b>	<b>2.75</b>

		<b>2025 Winter</b>					
Onsite	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1663	6.3938	2.6063	0.0305	1.0866	0.3382
	Worker	1.8847	1.1037	17.1622	0.0576	7.0933	1.9164
	Total	<b>2.051</b>	<b>7.4974</b>	<b>19.7685</b>	<b>0.0881</b>	<b>8.1799</b>	<b>2.2545</b>
<b>TOTAL</b>		<b>3.42</b>	<b>19.97</b>	<b>35.85</b>	<b>0.12</b>	<b>8.71</b>	<b>2.75</b>
		<b>2025</b>					
Onsite	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.17	6.39	2.61	0.03	1.09	0.34
	Worker	1.88	1.10	18.39	0.06	7.09	1.92
	Total	<b>2.05</b>	<b>7.50</b>	<b>20.92</b>	<b>0.09</b>	<b>8.18</b>	<b>2.25</b>
<b>TOTAL</b>		<b>3.42</b>	<b>19.97</b>	<b>37.00</b>	<b>0.12</b>	<b>8.71</b>	<b>2.75</b>

<b>2025 P2 Asphalt Paving, P2 Finishing/Landscaping, &amp; P2 Building Construction</b>	<b>4.56</b>	<b>29.91</b>	<b>54.29</b>	<b>0.15</b>	<b>9.37</b>	<b>3.24</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2026 Summer</b>					
Onsite	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.17	6.0757	2.5201	0.0298	1.0864	0.338
	Worker	1.6255	0.9205	17.4164	0.0586	7.0916	1.9148
	Total	<b>1.7954</b>	<b>6.9962</b>	<b>19.9365</b>	<b>0.0884</b>	<b>8.178</b>	<b>2.2528</b>
<b>TOTAL</b>		<b>3.16</b>	<b>19.47</b>	<b>36.02</b>	<b>0.12</b>	<b>8.71</b>	<b>2.75</b>
		<b>2026 Winter</b>					
Onsite	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1637	6.3486	2.5966	0.0299	1.0865	0.3381
	Worker	1.7932	1.0101	16.2603	0.0558	7.0916	1.9148
	Total	<b>1.9569</b>	<b>7.3587</b>	<b>18.8569</b>	<b>0.0857</b>	<b>8.1781</b>	<b>2.253</b>
<b>TOTAL</b>		<b>3.32</b>	<b>19.83</b>	<b>34.94</b>	<b>0.11</b>	<b>8.71</b>	<b>2.75</b>
		<b>2026</b>					
Onsite	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.17	6.35	2.60	0.03	1.09	0.34
	Worker	1.79	1.01	17.42	0.06	7.09	1.91
	Total	<b>1.96</b>	<b>7.36</b>	<b>19.94</b>	<b>0.09</b>	<b>8.18</b>	<b>2.25</b>
<b>TOTAL</b>		<b>3.32</b>	<b>19.83</b>	<b>36.02</b>	<b>0.12</b>	<b>8.71</b>	<b>2.75</b>

<b>2026 P2 Asphalt Paving, P2 Finishing/Landscaping, &amp; P2 Building Construction</b>	<b>4.46</b>	<b>29.77</b>	<b>53.28</b>	<b>0.14</b>	<b>9.36</b>	<b>3.23</b>
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<b>2026 P2 Finish/Landscape &amp; P2 Building</b>	<b>3.46</b>	<b>21.16</b>	<b>38.32</b>	<b>0.12</b>	<b>8.79</b>	<b>2.81</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2027 Summer</b>						
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1677	6.0304	2.5125	0.0292	1.0863	0.3379
	Worker	1.5441	0.849	16.5928	0.0569	7.0896	1.913
	Total	<b>1.7117</b>	<b>6.8794</b>	<b>19.1054</b>	<b>0.0861</b>	<b>8.1759</b>	<b>2.2509</b>
<b>TOTAL</b>		<b>3.08</b>	<b>19.35</b>	<b>35.19</b>	<b>0.11</b>	<b>8.70</b>	<b>2.75</b>

Onsite	<b>2027 Winter</b>						
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.1614	6.302	2.5874	0.0292	1.0864	0.338
	Worker	1.7079	0.9315	15.4967	0.0542	7.0896	1.913
	Total	<b>1.8692</b>	<b>7.2335</b>	<b>18.0841</b>	<b>0.0834</b>	<b>8.1761</b>	<b>2.2511</b>
<b>TOTAL</b>		<b>3.24</b>	<b>19.70</b>	<b>34.17</b>	<b>0.11</b>	<b>8.70</b>	<b>2.75</b>

Onsite	<b>2027</b>						
	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.17	6.30	2.59	0.03	1.09	0.34
	Worker	1.71	0.93	16.59	0.06	7.09	1.91
	Total	<b>1.87</b>	<b>7.23</b>	<b>19.11</b>	<b>0.09</b>	<b>8.18</b>	<b>2.25</b>
<b>TOTAL</b>		<b>3.24</b>	<b>19.70</b>	<b>35.19</b>	<b>0.11</b>	<b>8.70</b>	<b>2.75</b>

### Phase 2 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2027 Summer</b>						
	Archit. Coating	30.8767				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	Total	<b>31.0475</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.3088	0.1698	3.3186	1.14E-02	1.4179	0.3826
	Total	<b>0.3088</b>	<b>0.1698</b>	<b>3.3186</b>	<b>1.14E-02</b>	<b>1.4179</b>	<b>0.3826</b>
<b>TOTAL</b>		<b>31.36</b>	<b>1.32</b>	<b>5.13</b>	<b>0.01</b>	<b>1.47</b>	<b>0.43</b>

Onsite	<b>2027 Winter</b>						
	Archit. Coating	30.8767				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	Total	<b>31.0475</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.3416	0.1863	3.0993	1.08E-02	1.4179	0.3826
	Total	<b>0.3416</b>	<b>0.1863</b>	<b>3.0993</b>	<b>1.08E-02</b>	<b>1.4179</b>	<b>0.3826</b>
<b>TOTAL</b>		<b>31.39</b>	<b>1.33</b>	<b>4.91</b>	<b>0.01</b>	<b>1.47</b>	<b>0.43</b>

		<b>2027</b>					
Onsite	Archit. Coating	30.88	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.17	1.15	1.81	0.00	0.05	0.05
	<b>Total</b>	<b>31.05</b>	<b>1.15</b>	<b>1.81</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.34	0.19	3.32	0.01	1.42	0.38
	<b>Total</b>	<b>0.34</b>	<b>0.19</b>	<b>3.32</b>	<b>0.01</b>	<b>1.42</b>	<b>0.38</b>
<b>TOTAL</b>		<b>31.39</b>	<b>1.33</b>	<b>5.13</b>	<b>0.01</b>	<b>1.47</b>	<b>0.43</b>

**Phase 3 Site Preparation**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2026 Summer</b>					
Onsite	Fugitive Dust					8.4034	4.3188
	Off-Road	2.4727	25.2339	17.9118	0.0381	1.0868	0.9999
	<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>9.4902</b>	<b>5.3187</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.73E-03	0.2762	0.1146	1.36E-03	0.0494	1.54E-02
	Worker	0.0427	0.0242	0.4577	1.54E-03	0.1864	0.0503
	<b>Total</b>	<b>0.0504</b>	<b>0.3004</b>	<b>0.5722</b>	<b>2.90E-03</b>	<b>0.2357</b>	<b>0.0657</b>
<b>TOTAL</b>		<b>2.52</b>	<b>25.53</b>	<b>18.48</b>	<b>0.04</b>	<b>9.73</b>	<b>5.38</b>

		<b>2026 Winter</b>					
Onsite	Fugitive Dust					8.4034	4.3188
	Off-Road	2.4727	25.2339	17.9118	0.0381	1.0868	0.9999
	<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>9.4902</b>	<b>5.3187</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	7.44E-03	0.2886	0.118	1.36E-03	0.0494	1.54E-02
	Worker	0.0471	0.0265	0.4273	1.47E-03	0.1864	0.0503
	<b>Total</b>	<b>0.0546</b>	<b>0.3151</b>	<b>0.5453</b>	<b>2.83E-03</b>	<b>0.2357</b>	<b>0.0657</b>
<b>TOTAL</b>		<b>2.53</b>	<b>25.55</b>	<b>18.46</b>	<b>0.04</b>	<b>9.73</b>	<b>5.37</b>

		<b>2026</b>					
Onsite	Fugitive Dust	0.00	0.00	0.00	0.00	8.40	4.32
	Off-Road	2.47	25.23	17.91	0.04	1.09	1.00
	<b>Total</b>	<b>2.47</b>	<b>25.23</b>	<b>17.91</b>	<b>0.04</b>	<b>9.49</b>	<b>5.32</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.29	0.12	0.00	0.05	0.02
	Worker	0.05	0.03	0.46	0.00	0.19	0.05
	<b>Total</b>	<b>0.05</b>	<b>0.32</b>	<b>0.57</b>	<b>0.00</b>	<b>0.24</b>	<b>0.07</b>
<b>TOTAL</b>		<b>2.53</b>	<b>25.55</b>	<b>18.48</b>	<b>0.04</b>	<b>9.73</b>	<b>5.38</b>

<b>2026 P2 Building &amp; P3 Site Preparation</b>	<b>5.85</b>	<b>45.38</b>	<b>54.51</b>	<b>0.16</b>	<b>18.43</b>	<b>8.13</b>
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**Phase 3 Rough Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2026 Summer</b>					
Onsite	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0155	0.5523	0.2291	2.71E-03	0.0988	3.07E-02
	Worker	0.0475	0.0269	0.5085	1.71E-03	0.2071	0.0559
	Total	<b>0.0629</b>	<b>0.5792</b>	<b>0.7376</b>	<b>4.42E-03</b>	<b>0.3058</b>	<b>0.0866</b>
<b>TOTAL</b>		<b>2.96</b>	<b>28.52</b>	<b>27.07</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

Onsite	<b>2026 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0149	0.5772	0.2361	2.72E-03	0.0988	3.07E-02
	Worker	0.0524	0.0295	0.4748	1.63E-03	0.2071	0.0559
	Total	<b>0.0673</b>	<b>0.6066</b>	<b>0.7108</b>	<b>4.35E-03</b>	<b>0.3058</b>	<b>0.0867</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.55</b>	<b>27.04</b>	<b>0.07</b>	<b>5.37</b>	<b>2.66</b>

Onsite	<b>2026</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	Total	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>	<b>2.60</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.58	0.24	0.00	0.10	0.03
	Worker	0.05	0.03	0.51	0.00	0.21	0.06
	Total	<b>0.07</b>	<b>0.61</b>	<b>0.74</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.55</b>	<b>27.07</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

<b>2026 P2 Building &amp; P3 Rough Grading</b>	<b>6.29</b>	<b>48.38</b>	<b>63.09</b>	<b>0.18</b>	<b>14.08</b>	<b>5.44</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2027 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0152	0.5482	0.2284	2.65E-03	0.0988	3.07E-02
	Worker	0.0451	0.0248	0.4845	1.66E-03	0.207	0.0559
	Total	<b>0.0603</b>	<b>0.573</b>	<b>0.7129</b>	<b>4.31E-03</b>	<b>0.3058</b>	<b>0.0866</b>
<b>TOTAL</b>		<b>2.96</b>	<b>28.52</b>	<b>27.04</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

Onsite	<b>2027 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0147	0.5729	0.2352	2.66E-03	0.0988	3.07E-02
	Worker	0.0499	0.0272	0.4525	1.58E-03	0.207	0.0559
	Total	<b>0.0645</b>	<b>0.6001</b>	<b>0.6877</b>	<b>4.24E-03</b>	<b>0.3058</b>	<b>0.0866</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.54</b>	<b>27.02</b>	<b>0.07</b>	<b>5.37</b>	<b>2.66</b>

Onsite	<b>2027</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
	Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
	Total	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>	<b>2.60</b>



Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.57	0.24	0.00	0.10	0.03
	Worker	0.05	0.03	0.48	0.00	0.21	0.06
	Total	<b>0.06</b>	<b>0.60</b>	<b>0.71</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.54</b>	<b>27.04</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

<b>2027 P2 Building &amp; P3 Rough Grading</b>	<b>6.20</b>	<b>48.25</b>	<b>62.23</b>	<b>0.18</b>	<b>14.07</b>	<b>5.44</b>
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<b>2027 P2 Building Construction, P3 Rough Grading, &amp; P2 Architectural Coating</b>	<b>37.59</b>	<b>49.58</b>	<b>67.36</b>	<b>0.19</b>	<b>15.54</b>	<b>5.87</b>
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**Phase 3 Utility Trenching**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2027 Summer</b>						
	Off-Road	0.6515	5.4135	9.1328	0.0138	0.3174	0.292
	Total	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>	<b>0.3174</b>	<b>0.292</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.018	9.92E-03	0.1938	6.60E-04	0.0828	0.0223
	Total	<b>0.018</b>	<b>9.92E-03</b>	<b>0.1938</b>	<b>6.60E-04</b>	<b>0.0828</b>	<b>0.0223</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.42</b>	<b>9.33</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

Onsite	<b>2027 Winter</b>						
	Off-Road	0.6515	5.4135	9.1328	0.0138	0.3174	0.292
	Total	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>	<b>0.3174</b>	<b>0.292</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.02	0.0109	0.181	6.30E-04	0.0828	0.0223
	Total	<b>0.02</b>	<b>0.0109</b>	<b>0.181</b>	<b>6.30E-04</b>	<b>0.0828</b>	<b>0.0223</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.42</b>	<b>9.31</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

Onsite	<b>2027</b>						
	Off-Road	0.65	5.41	9.13	0.01	0.32	0.29
	Total	<b>0.65</b>	<b>5.41</b>	<b>9.13</b>	<b>0.01</b>	<b>0.32</b>	<b>0.29</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.02	0.01	0.19	0.00	0.08	0.02
	Total	<b>0.02</b>	<b>0.01</b>	<b>0.19</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>		<b>0.67</b>	<b>5.42</b>	<b>9.33</b>	<b>0.01</b>	<b>0.40</b>	<b>0.31</b>

<b>2027 P2 Building Construction, P3 Rough Grading, P2 Architectural Coating, &amp; P3 Utility Trenching</b>	<b>38.26</b>	<b>55.00</b>	<b>76.69</b>	<b>0.21</b>	<b>15.94</b>	<b>6.18</b>
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**Phase 3 Fine Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2027 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	1.52E-02	0.5482	0.2284	2.65E-03	0.0988	3.07E-02
	Worker	0.0451	0.0248	0.4845	1.66E-03	0.207	0.0559
	Total	<b>0.0603</b>	<b>0.573</b>	<b>0.7129</b>	<b>4.31E-03</b>	<b>0.3058</b>	<b>0.0866</b>
<b>TOTAL</b>		<b>2.96</b>	<b>28.52</b>	<b>27.04</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

Onsite	<b>2027 Winter</b>					
	Fugitive Dust				3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>

Offsite	Hauling	0	0	0	0	0
	Vendor	1.47E-02	0.5729	0.2352	2.66E-03	0.0988
	Worker	0.0499	0.0272	0.4525	1.58E-03	0.207
	Total	<b>0.0645</b>	<b>0.6001</b>	<b>0.6877</b>	<b>4.24E-03</b>	<b>0.3058</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.54</b>	<b>27.02</b>	<b>0.07</b>	<b>5.37</b>

Onsite	<b>2027</b>					
	Fugitive Dust	0.00	0.00	0.00	0.00	3.93
	Off-Road	2.90	27.94	26.33	0.06	1.13
	Total	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00
	Vendor	0.02	0.57	0.24	0.00	0.10
	Worker	0.05	0.03	0.48	0.00	0.21
	Total	<b>0.06</b>	<b>0.60</b>	<b>0.71</b>	<b>0.00</b>	<b>0.31</b>
<b>TOTAL</b>		<b>2.97</b>	<b>28.54</b>	<b>27.04</b>	<b>0.07</b>	<b>5.37</b>

<b>2027 P2 Building Construction, P3 Rough Grading, P2 Architectural Coating, P3 Utility Trenching, &amp; P3 Fine Grading</b>	<b>41.23</b>	<b>83.55</b>	<b>103.73</b>	<b>0.27</b>	<b>21.32</b>	<b>8.87</b>
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<b>2027 P3 Rough Grading, P3 Utility Trenching, &amp; P3 Fine Grading</b>	<b>6.60</b>	<b>62.51</b>	<b>63.41</b>	<b>0.15</b>	<b>11.14</b>	<b>5.69</b>
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<b>2027 P3 Utility Trenching &amp; P3 Fine Grading</b>	<b>3.64</b>	<b>33.97</b>	<b>36.37</b>	<b>0.08</b>	<b>5.77</b>	<b>3.00</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2028 Summer</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	1.51E-02	0.5445	0.2283	2.59E-03	0.0987	3.07E-02
	Worker	0.0429	0.023	0.4643	1.62E-03	0.2069	0.0558
	Total	<b>0.0579</b>	<b>0.5675</b>	<b>0.6926</b>	<b>4.21E-03</b>	<b>0.3057</b>	<b>0.0865</b>
<b>TOTAL</b>		<b>2.96</b>	<b>28.51</b>	<b>27.02</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

Onsite	<b>2028 Winter</b>						
	Fugitive Dust					3.9345	1.562
	Off-Road	2.9012	27.9429	26.3311	0.0621	1.1309	1.0404
	Total	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>5.0654</b>	<b>2.6024</b>

Offsite	Hauling	0	0	0	0	0	0
	Vendor	1.45E-02	0.5691	0.235	2.60E-03	0.0988	3.07E-02
	Worker	0.0475	0.0253	0.4338	1.54E-03	0.2069	0.0558
	<b>Total</b>	<b>0.062</b>	<b>0.5944</b>	<b>0.6687</b>	<b>4.14E-03</b>	<b>0.3057</b>	<b>0.0865</b>
<b>TOTAL</b>		<b>2.96</b>	<b>28.54</b>	<b>27.00</b>	<b>0.07</b>	<b>5.37</b>	<b>2.66</b>

Onsite	<b>2028</b>	Fugitive Dust	0.00	0.00	0.00	0.00	3.93	1.56
		Off-Road	2.90	27.94	26.33	0.06	1.13	1.04
		<b>Total</b>	<b>2.90</b>	<b>27.94</b>	<b>26.33</b>	<b>0.06</b>	<b>5.07</b>	<b>2.60</b>
Offsite		Hauling	0.00	0.00	0.00	0.00	0.00	0.00
		Vendor	0.02	0.57	0.24	0.00	0.10	0.03
		Worker	0.05	0.03	0.46	0.00	0.21	0.06
		<b>Total</b>	<b>0.06</b>	<b>0.59</b>	<b>0.69</b>	<b>0.00</b>	<b>0.31</b>	<b>0.09</b>
<b>TOTAL</b>			<b>2.96</b>	<b>28.54</b>	<b>27.02</b>	<b>0.07</b>	<b>5.37</b>	<b>2.69</b>

**Phase 3 Asphalt Paving**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total	
Onsite	<b>2027 Summer</b>	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
		Paving	0			0	0	
		<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>

Offsite		Hauling	0	0	0	0	0	0
		Vendor	0	0	0	0	0	0
		Worker	0.0338	0.0186	0.3634	1.25E-03	0.1553	0.0419
		<b>Total</b>	<b>0.0338</b>	<b>0.0186</b>	<b>0.3634</b>	<b>1.25E-03</b>	<b>0.1553</b>	<b>0.0419</b>
<b>TOTAL</b>			<b>0.95</b>	<b>8.60</b>	<b>14.94</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	<b>2027 Winter</b>	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
		Paving	0			0	0	
		<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>

Offsite		Hauling	0	0	0	0	0	0
		Vendor	0	0	0	0	0	0
		Worker	0.0374	0.0204	0.3393	1.19E-03	0.1553	0.0419
		<b>Total</b>	<b>0.0374</b>	<b>0.0204</b>	<b>0.3393</b>	<b>1.19E-03</b>	<b>0.1553</b>	<b>0.0419</b>
<b>TOTAL</b>			<b>0.95</b>	<b>8.60</b>	<b>14.92</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

Onsite	<b>2027</b>	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
		Paving	0.00	0.00	0.00	0.00	0.00	0.00
		<b>Total</b>	<b>0.92</b>	<b>8.58</b>	<b>14.58</b>	<b>0.02</b>	<b>0.42</b>	<b>0.39</b>

Offsite		Hauling	0.00	0.00	0.00	0.00	0.00	0.00
		Vendor	0.00	0.00	0.00	0.00	0.00	0.00
		Worker	0.04	0.02	0.36	0.00	0.16	0.04
		<b>Total</b>	<b>0.04</b>	<b>0.02</b>	<b>0.36</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>			<b>0.95</b>	<b>8.60</b>	<b>14.94</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

<b>2027 P3 Utility Trenching, P3 Fine Grading, &amp; P3 Asphalt Paving</b>			<b>4.59</b>	<b>42.57</b>	<b>51.31</b>	<b>0.10</b>	<b>6.35</b>	<b>3.43</b>
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<b>2027 P3 Fine Grading &amp; P3 Asphalt Paving</b>			<b>3.92</b>	<b>37.15</b>	<b>41.99</b>	<b>0.09</b>	<b>5.95</b>	<b>3.12</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2028 Summer</b>					
Onsite	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0				0	0
	<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0322	0.0173	0.3482	1.21E-03	0.1552	0.0419
	<b>Total</b>	<b>0.0322</b>	<b>0.0173</b>	<b>0.3482</b>	<b>1.21E-03</b>	<b>0.1552</b>	<b>0.0419</b>
<b>TOTAL</b>		<b>0.95</b>	<b>8.60</b>	<b>14.93</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2028 Winter</b>					
Onsite	Off-Road	0.9152	8.5816	14.578	0.0228	0.4185	0.385
	Paving	0				0	0
	<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.0228</b>	<b>0.4185</b>	<b>0.385</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0357	0.019	0.3253	1.16E-03	0.1552	0.0419
	<b>Total</b>	<b>0.0357</b>	<b>0.019</b>	<b>0.3253</b>	<b>1.16E-03</b>	<b>0.1552</b>	<b>0.0419</b>
<b>TOTAL</b>		<b>0.95</b>	<b>8.60</b>	<b>14.90</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2028</b>					
Onsite	Off-Road	0.92	8.58	14.58	0.02	0.42	0.39
	Paving	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>0.92</b>	<b>8.58</b>	<b>14.58</b>	<b>0.02</b>	<b>0.42</b>	<b>0.39</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.04	0.02	0.35	0.00	0.16	0.04
	<b>Total</b>	<b>0.04</b>	<b>0.02</b>	<b>0.35</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>		<b>0.95</b>	<b>8.60</b>	<b>14.93</b>	<b>0.02</b>	<b>0.57</b>	<b>0.43</b>

**Phase 3 Finishing/Landscaping**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2027 Summer</b>					
Onsite	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	6.76E-03	3.72E-03	0.0727	2.50E-04	0.0311	8.38E-03
	<b>Total</b>	<b>6.76E-03</b>	<b>3.72E-03</b>	<b>0.0727</b>	<b>2.50E-04</b>	<b>0.0311</b>	<b>8.38E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2027 Winter</b>					
Onsite	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.48E-03	4.08E-03	0.0679	2.40E-04	0.0311	8.38E-03
	<b>Total</b>	<b>7.48E-03</b>	<b>4.08E-03</b>	<b>0.0679</b>	<b>2.40E-04</b>	<b>0.0311</b>	<b>8.38E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

		2027					
Onsite	Off-Road	0.13	1.33	2.22	0.00	0.05	0.05
	Total	<b>0.13</b>	<b>1.33</b>	<b>2.22</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.00	0.07	0.00	0.03	0.01
	Total	<b>0.01</b>	<b>0.00</b>	<b>0.07</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.09</b>	<b>0.06</b>

<b>2027 P3 Fine Grading, P3 Asphalt Paving, &amp; P3 Finishing/Landscaping</b>	<b>4.06</b>	<b>38.48</b>	<b>44.28</b>	<b>0.09</b>	<b>6.03</b>	<b>3.17</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2028 Summer</b>					
Onsite	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	Total	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	6.43E-03	3.46E-03	0.0697	2.40E-04	0.031	8.37E-03
	Total	<b>6.43E-03</b>	<b>3.46E-03</b>	<b>0.0697</b>	<b>2.40E-04</b>	<b>0.031</b>	<b>8.37E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.08</b>	<b>0.06</b>

Onsite	Off-Road	0.1316	1.3297	2.2206	3.11E-03	0.0539	0.0496
	Total	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.11E-03</b>	<b>0.0539</b>	<b>0.0496</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	7.13E-03	3.79E-03	0.0651	2.30E-04	0.031	8.37E-03
	Total	<b>7.13E-03</b>	<b>3.79E-03</b>	<b>0.0651</b>	<b>2.30E-04</b>	<b>0.031</b>	<b>8.37E-03</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.08</b>	<b>0.06</b>

		2028					
Onsite	Off-Road	0.13	1.33	2.22	0.00	0.05	0.05
	Total	<b>0.13</b>	<b>1.33</b>	<b>2.22</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.01	0.00	0.07	0.00	0.03	0.01
	Total	<b>0.01</b>	<b>0.00</b>	<b>0.07</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>
<b>TOTAL</b>		<b>0.14</b>	<b>1.33</b>	<b>2.29</b>	<b>0.00</b>	<b>0.08</b>	<b>0.06</b>

<b>2028 P3 Fine Grading, P3 Asphalt Paving, &amp; P3 Finishing/Landscaping</b>	<b>4.05</b>	<b>38.47</b>	<b>44.24</b>	<b>0.09</b>	<b>6.03</b>	<b>3.17</b>
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Phase 3 Building Construction							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
		<b>2028 Summer</b>					
Onsite	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0132	0.4764	0.1997	2.27E-03	0.0864	0.0269
	Worker	0.105	0.0565	1.1376	3.97E-03	0.507	0.1367
	Total	<b>0.1182</b>	<b>0.5329</b>	<b>1.3373</b>	<b>6.24E-03</b>	<b>0.5934</b>	<b>0.1636</b>
<b>TOTAL</b>		<b>1.49</b>	<b>13.00</b>	<b>17.42</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

Onsite		<b>2028 Winter</b>					
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0127	0.498	0.2056	2.27E-03	0.0864	0.0269
	Worker	0.1164	0.0619	1.0627	3.78E-03	0.507	0.1367
	Total	<b>0.1291</b>	<b>0.5599</b>	<b>1.2683</b>	<b>6.05E-03</b>	<b>0.5934</b>	<b>0.1636</b>
<b>TOTAL</b>		<b>1.50</b>	<b>13.03</b>	<b>17.35</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

Onsite		<b>2028</b>					
	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.50	0.21	0.00	0.09	0.03
	Worker	0.12	0.06	1.14	0.00	0.51	0.14
	Total	<b>0.13</b>	<b>0.56</b>	<b>1.34</b>	<b>0.01</b>	<b>0.59</b>	<b>0.16</b>
<b>TOTAL</b>		<b>1.50</b>	<b>13.03</b>	<b>17.42</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

<b>2028 P3 Finish/Landscape &amp; P3 Building Construction</b>		<b>1.64</b>	<b>14.36</b>	<b>19.71</b>	<b>0.04</b>	<b>1.21</b>	<b>0.72</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2029 Summer</b>					
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.013	0.4733	0.1997	2.22E-03	0.0864	0.0269
	Worker	0.0997	0.0528	1.0944	3.87E-03	0.5069	0.1366
	Total	<b>0.1127</b>	<b>0.5261</b>	<b>1.2941</b>	<b>6.09E-03</b>	<b>0.5932</b>	<b>0.1634</b>
<b>TOTAL</b>		<b>1.48</b>	<b>13.00</b>	<b>17.38</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

Onsite		<b>2029 Winter</b>					
	Off-Road	1.3674	12.4697	16.0847	0.027	0.5276	0.4963
	Total	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.027</b>	<b>0.5276</b>	<b>0.4963</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0.0125	0.4947	0.2054	2.23E-03	0.0864	0.0269
	Worker	0.1108	0.0579	1.0226	3.69E-03	0.5069	0.1366
	Total	<b>0.1233</b>	<b>0.5526</b>	<b>1.228</b>	<b>5.92E-03</b>	<b>0.5933</b>	<b>0.1634</b>
<b>TOTAL</b>		<b>1.49</b>	<b>13.02</b>	<b>17.31</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

Onsite		<b>2029</b>					
	Off-Road	1.37	12.47	16.08	0.03	0.53	0.50
	Total	<b>1.37</b>	<b>12.47</b>	<b>16.08</b>	<b>0.03</b>	<b>0.53</b>	<b>0.50</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.49	0.21	0.00	0.09	0.03
	Worker	0.11	0.06	1.09	0.00	0.51	0.14
	Total	<b>0.12</b>	<b>0.55</b>	<b>1.29</b>	<b>0.01</b>	<b>0.59</b>	<b>0.16</b>
<b>TOTAL</b>		<b>1.49</b>	<b>13.02</b>	<b>17.38</b>	<b>0.03</b>	<b>1.12</b>	<b>0.66</b>

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2030 Summer</b>						
	Off-Road	1.3091	7.9346	16.157	0.031	0.1481	0.1481
	<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.157</b>	<b>0.031</b>	<b>0.1481</b>	<b>0.1481</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0129	0.4703	0.1996	2.18E-03	0.0864	0.0269
	Worker	0.0946	0.0496	1.0573	3.79E-03	0.5067	0.1365
	<b>Total</b>	<b>0.1075</b>	<b>0.5199</b>	<b>1.2569</b>	<b>5.97E-03</b>	<b>0.5931</b>	<b>0.1633</b>
<b>TOTAL</b>	<b>1.42</b>	<b>8.45</b>	<b>17.41</b>	<b>0.04</b>	<b>0.74</b>	<b>0.31</b>	

Onsite	<b>2030 Winter</b>						
	Off-Road	1.3091	7.9346	16.157	0.031	0.1481	0.1481
	<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.157</b>	<b>0.031</b>	<b>0.1481</b>	<b>0.1481</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0.0124	0.4917	0.2052	2.18E-03	0.0864	0.0269
	Worker	0.1053	0.0543	0.988	3.61E-03	0.5067	0.1365
	<b>Total</b>	<b>0.1177</b>	<b>0.546</b>	<b>1.1932</b>	<b>5.79E-03</b>	<b>0.5931</b>	<b>0.1633</b>
<b>TOTAL</b>	<b>1.43</b>	<b>8.48</b>	<b>17.35</b>	<b>0.04</b>	<b>0.74</b>	<b>0.31</b>	

Onsite	<b>2030</b>						
	Off-Road	1.31	7.93	16.16	0.03	0.15	0.15
	<b>Total</b>	<b>1.31</b>	<b>7.93</b>	<b>16.16</b>	<b>0.03</b>	<b>0.15</b>	<b>0.15</b>
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.49	0.21	0.00	0.09	0.03
	Worker	0.11	0.05	1.06	0.00	0.51	0.14
	<b>Total</b>	<b>0.12</b>	<b>0.55</b>	<b>1.26</b>	<b>0.01</b>	<b>0.59</b>	<b>0.16</b>
<b>TOTAL</b>	<b>1.43</b>	<b>8.48</b>	<b>17.41</b>	<b>0.04</b>	<b>0.74</b>	<b>0.31</b>	

### Phase 3 Architectural Coating

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2029 Summer</b>						
	Archit. Coating	10.7078				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	<b>Total</b>	<b>10.8787</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0204	0.0108	0.2234	7.90E-04	0.1034	0.0279
	<b>Total</b>	<b>0.0204</b>	<b>0.0108</b>	<b>0.2234</b>	<b>7.90E-04</b>	<b>0.1034</b>	<b>0.0279</b>
<b>TOTAL</b>	<b>10.90</b>	<b>1.16</b>	<b>2.03</b>	<b>0.00</b>	<b>0.15</b>	<b>0.08</b>	

Onsite	<b>2029 Winter</b>						
	Archit. Coating	10.7078				0	0
	Off-Road	0.1709	1.1455	1.8091	2.97E-03	0.0515	0.0515
	<b>Total</b>	<b>10.8787</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.97E-03</b>	<b>0.0515</b>	<b>0.0515</b>
Offsite	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0226	0.0118	0.2087	7.50E-04	0.1034	0.0279
	<b>Total</b>	<b>0.0226</b>	<b>0.0118</b>	<b>0.2087</b>	<b>7.50E-04</b>	<b>0.1034</b>	<b>0.0279</b>
<b>TOTAL</b>	<b>10.90</b>	<b>1.16</b>	<b>2.02</b>	<b>0.00</b>	<b>0.15</b>	<b>0.08</b>	

Onsite		<b>2029</b>						
	Archit. Coating		10.71	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.17	1.15	1.81	0.00	0.05	0.05
	Total		<b>10.88</b>	<b>1.15</b>	<b>1.81</b>	<b>0.00</b>	<b>0.05</b>	<b>0.05</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.22	0.00	0.10	0.03
	Total		<b>0.02</b>	<b>0.01</b>	<b>0.22</b>	<b>0.00</b>	<b>0.10</b>	<b>0.03</b>
<b>TOTAL</b>			<b>10.90</b>	<b>1.16</b>	<b>2.03</b>	<b>0.00</b>	<b>0.15</b>	<b>0.08</b>

<b>2029 P3 Building Construction &amp; P3 Architectural Coating</b>	<b>12.39</b>	<b>14.18</b>	<b>19.41</b>	<b>0.04</b>	<b>1.28</b>	<b>0.74</b>
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2030 Summer</b>					
	Archit. Coating	10.7078				0	0
	Off-Road	0.1308	0.8563	1.7977	2.97E-03	0.0203	0.0203
	Total	<b>10.8386</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.97E-03</b>	<b>0.0203</b>	<b>0.0203</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0193	0.0101	0.2158	7.70E-04	0.1034	0.0279
	Total	<b>0.0193</b>	<b>0.0101</b>	<b>0.2158</b>	<b>7.70E-04</b>	<b>0.1034</b>	<b>0.0279</b>
<b>TOTAL</b>		<b>10.86</b>	<b>0.87</b>	<b>2.01</b>	<b>0.00</b>	<b>0.12</b>	<b>0.05</b>

Onsite		<b>2030 Winter</b>					
	Archit. Coating	10.7078				0	0
	Off-Road	0.1308	0.8563	1.7977	2.97E-03	0.0203	0.0203
	Total	<b>10.8386</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.97E-03</b>	<b>0.0203</b>	<b>0.0203</b>
Offsite							
	Hauling	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0
	Worker	0.0215	0.0111	0.2016	7.40E-04	0.1034	0.0279
	Total	<b>0.0215</b>	<b>0.0111</b>	<b>0.2016</b>	<b>7.40E-04</b>	<b>0.1034</b>	<b>0.0279</b>
<b>TOTAL</b>		<b>10.86</b>	<b>0.87</b>	<b>2.00</b>	<b>0.00</b>	<b>0.12</b>	<b>0.05</b>

Onsite		<b>2030</b>						
	Archit. Coating		10.71	0.00	0.00	0.00	0.00	0.00
	Off-Road		0.13	0.86	1.80	0.00	0.02	0.02
	Total		<b>10.84</b>	<b>0.86</b>	<b>1.80</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.02	0.01	0.22	0.00	0.10	0.03
	Total		<b>0.02</b>	<b>0.01</b>	<b>0.22</b>	<b>0.00</b>	<b>0.10</b>	<b>0.03</b>
<b>TOTAL</b>			<b>10.86</b>	<b>0.87</b>	<b>2.01</b>	<b>0.00</b>	<b>0.12</b>	<b>0.05</b>

<b>2030 P3 Building Construction &amp; P3 Architectural Coating</b>	<b>12.29</b>	<b>9.35</b>	<b>19.43</b>	<b>0.04</b>	<b>0.86</b>	<b>0.36</b>
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<b>MAX DAILY</b>	<b>41</b>	<b>84</b>	<b>104</b>	<b>0.35</b>	<b>22</b>	<b>10</b>
<i>Year 2023</i>	<i>2.35</i>	<i>72.24</i>	<i>72.44</i>	<i>0.30</i>	<i>19.22</i>	<i>8.91</i>
<i>Year 2024</i>	<i>4.97</i>	<i>83.46</i>	<i>97.50</i>	<i>0.35</i>	<i>21.81</i>	<i>9.80</i>
<i>Year 2025</i>	<i>39.70</i>	<i>53.87</i>	<i>75.38</i>	<i>0.15</i>	<i>11.60</i>	<i>5.31</i>
<i>Year 2026</i>	<i>6.29</i>	<i>48.38</i>	<i>63.09</i>	<i>0.18</i>	<i>18.43</i>	<i>8.13</i>
<i>Year 2027</i>	<i>41.23</i>	<i>83.55</i>	<i>103.73</i>	<i>0.27</i>	<i>21.32</i>	<i>8.87</i>
<i>Year 2028</i>	<i>4.05</i>	<i>38.47</i>	<i>44.24</i>	<i>0.09</i>	<i>6.03</i>	<i>3.17</i>
<i>Year 2029</i>	<i>12.39</i>	<i>14.18</i>	<i>19.41</i>	<i>0.04</i>	<i>1.28</i>	<i>0.74</i>
<i>Year 2030</i>	<i>12.29</i>	<i>9.35</i>	<i>19.43</i>	<i>0.04</i>	<i>0.86</i>	<i>0.36</i>
<b>Regional Thresholds</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Exceeds Thresholds?	No	No	No	No	No	No

# Localized Construction Emissions Worksheet

\*CalEEMod, Version 2020.4.0

## Western Remediation Site Preparation

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2023</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	27.5242	18.2443	1.266	1.1647
	Total	27.5242	18.2443	9.6694	5.4835
<b>TOTAL</b>		<b>27.52</b>	<b>18.24</b>	<b>9.67</b>	<b>5.48</b>

Onsite	<b>2023</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	27.5242	18.2443	1.266	1.1647
	Total	27.5242	18.2443	9.6694	5.4835
<b>TOTAL</b>		<b>27.52</b>	<b>18.24</b>	<b>9.67</b>	<b>5.48</b>

Onsite	<b>2023</b>				
	Fugitive Dust	0.00	0.00	8.40	4.32
	Off-Road	27.52	18.24	1.27	1.16
	Total	27.52	18.24	9.67	5.48
<b>TOTAL</b>		<b>27.52</b>	<b>18.24</b>	<b>9.67</b>	<b>5.48</b>

<b>3.50-acre LST</b>		<b>184</b>	<b>1,036</b>	<b>8.50</b>	<b>5.00</b>
Exceed Threshold?		No	No	Yes	Yes

## Western Remediation Rough Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2023</b>				
	Fugitive Dust			3.9862	1.5698
	Off-Road	34.5156	28.0512	1.4245	1.3105
	Total	34.5156	28.0512	5.4107	2.8803
<b>TOTAL</b>		<b>34.52</b>	<b>28.05</b>	<b>5.41</b>	<b>2.88</b>

Onsite	<b>2023</b>				
	Fugitive Dust			3.9862	1.5698
	Off-Road	34.5156	28.0512	1.4245	1.3105
	Total	34.5156	28.0512	5.4107	2.8803
<b>TOTAL</b>		<b>34.52</b>	<b>28.05</b>	<b>5.41</b>	<b>2.88</b>

Onsite	<b>2023</b>				
	Fugitive Dust	0.00	0.00	3.99	1.57
	Off-Road	34.52	28.05	1.42	1.31
	Total	34.52	28.05	5.41	2.88
<b>TOTAL</b>		<b>34.52</b>	<b>28.05</b>	<b>5.41</b>	<b>2.88</b>

<b>4.00-acre LST</b>		<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?		No	No	No	No

**Phase 1 Site Preparation**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2023</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	27.5242	18.2443	1.266	1.1647
	<b>Total</b>	<b>27.5242</b>	<b>18.2443</b>	<b>9.6694</b>	<b>5.4835</b>
<b>TOTAL</b>		<b>27.52</b>	<b>18.24</b>	<b>9.67</b>	<b>5.48</b>
Onsite	<b>2023</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	27.5242	18.2443	1.266	1.1647
	<b>Total</b>	<b>27.5242</b>	<b>18.2443</b>	<b>9.6694</b>	<b>5.4835</b>
<b>TOTAL</b>		<b>27.52</b>	<b>18.24</b>	<b>9.67</b>	<b>5.48</b>
Onsite	<b>2023</b>				
	Fugitive Dust	0.00	0.00	8.40	4.32
	Off-Road	27.52	18.24	1.27	1.16
	<b>Total</b>	<b>27.52</b>	<b>18.24</b>	<b>9.67</b>	<b>5.48</b>
<b>TOTAL</b>		<b>27.52</b>	<b>18.24</b>	<b>9.67</b>	<b>5.48</b>
<b>3.50-acre LST</b>		<b>184</b>	<b>1,036</b>	<b>8.50</b>	<b>5.00</b>
Exceed Threshold?		No	No	Yes	Yes

**Phase 1 Rough Grading**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2023</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	34.5156	28.0512	1.4245	1.3105
	<b>Total</b>	<b>34.5156</b>	<b>28.0512</b>	<b>5.359</b>	<b>2.8725</b>
<b>TOTAL</b>		<b>34.52</b>	<b>28.05</b>	<b>5.36</b>	<b>2.87</b>
Onsite	<b>2023</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	34.5156	28.0512	1.4245	1.3105
	<b>Total</b>	<b>34.5156</b>	<b>28.0512</b>	<b>5.359</b>	<b>2.8725</b>
<b>TOTAL</b>		<b>34.52</b>	<b>28.05</b>	<b>5.36</b>	<b>2.87</b>
Onsite	<b>2023</b>				
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	34.52	28.05	1.42	1.31
	<b>Total</b>	<b>34.52</b>	<b>28.05</b>	<b>5.36</b>	<b>2.87</b>
<b>TOTAL</b>		<b>34.52</b>	<b>28.05</b>	<b>5.36</b>	<b>2.87</b>
<b>4.00-acre LST</b>		<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?		No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2024</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	32.377	27.7228	1.3354	1.2286
	Total	<b>32.377</b>	<b>27.7228</b>	<b>5.2699</b>	<b>2.7906</b>
<b>TOTAL</b>		<b>32.38</b>	<b>27.72</b>	<b>5.27</b>	<b>2.79</b>

Onsite	<b>2024</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	32.377	27.7228	1.3354	1.2286
	Total	<b>32.377</b>	<b>27.7228</b>	<b>5.2699</b>	<b>2.7906</b>
<b>TOTAL</b>		<b>32.38</b>	<b>27.72</b>	<b>5.27</b>	<b>2.79</b>

Onsite	<b>2024</b>				
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	32.38	27.72	1.34	1.23
	Total	<b>32.38</b>	<b>27.72</b>	<b>5.27</b>	<b>2.79</b>
<b>TOTAL</b>		<b>32.38</b>	<b>27.72</b>	<b>5.27</b>	<b>2.79</b>

### Phase 1 Utility Trenching

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2023</b>				
	Off-Road	5.1948	6.6976	0.3207	0.295
	Total	<b>5.1948</b>	<b>6.6976</b>	<b>0.3207</b>	<b>0.295</b>
<b>TOTAL</b>		<b>5.19</b>	<b>6.70</b>	<b>0.32</b>	<b>0.30</b>

Onsite	<b>2023</b>				
	Off-Road	5.1948	6.6976	0.3207	0.295
	Total	<b>5.1948</b>	<b>6.6976</b>	<b>0.3207</b>	<b>0.295</b>
<b>TOTAL</b>		<b>5.19</b>	<b>6.70</b>	<b>0.32</b>	<b>0.30</b>

Onsite	<b>2023</b>				
	Off-Road	5.19	6.70	0.32	0.30
	Total	<b>5.19</b>	<b>6.70</b>	<b>0.32</b>	<b>0.30</b>
<b>TOTAL</b>		<b>5.19</b>	<b>6.70</b>	<b>0.32</b>	<b>0.30</b>

<b>2023 P1 Rough Grading &amp; P1 Utility Trenching</b>	<b>39.71</b>	<b>34.75</b>	<b>5.68</b>	<b>3.17</b>
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<b>4.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2024</b>				
	Off-Road	4.9375	6.7068	0.3065	0.282
	Total	<b>4.9375</b>	<b>6.7068</b>	<b>0.3065</b>	<b>0.282</b>
<b>TOTAL</b>		<b>4.94</b>	<b>6.71</b>	<b>0.31</b>	<b>0.28</b>

Onsite		<b>2024</b>				
	Off-Road		4.9375	6.7068	0.3065	0.282
	Total		4.9375	6.7068	0.3065	0.282
<b>TOTAL</b>			<b>4.94</b>	<b>6.71</b>	<b>0.31</b>	<b>0.28</b>

Onsite		<b>2024</b>				
	Off-Road		4.94	6.71	0.31	0.28
	Total		4.94	6.71	0.31	0.28
<b>TOTAL</b>			<b>4.94</b>	<b>6.71</b>	<b>0.31</b>	<b>0.28</b>

<b>2024 P1 Rough Grading &amp; P1 Utility Trenching</b>			<b>37.31</b>	<b>34.43</b>	<b>5.58</b>	<b>3.07</b>
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<b>4.00-acre LST</b>			<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?			No	No	No	No

**Phase 1 Fine Grading**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2024</b>				
	Fugitive Dust				3.9345	1.562
	Off-Road		32.377	27.7228	1.3354	1.2286
	Total		32.377	27.7228	5.2699	2.7906
<b>TOTAL</b>			<b>32.38</b>	<b>27.72</b>	<b>5.27</b>	<b>2.79</b>

Onsite		<b>2024</b>				
	Fugitive Dust				3.9345	1.562
	Off-Road		32.377	27.7228	1.3354	1.2286
	Total		32.377	27.7228	5.2699	2.7906
<b>TOTAL</b>			<b>32.38</b>	<b>27.72</b>	<b>5.27</b>	<b>2.79</b>

Onsite		<b>2024</b>				
	Fugitive Dust		0.00	0.00	3.93	1.56
	Off-Road		32.38	27.72	1.34	1.23
	Total		32.38	27.72	5.27	2.79
<b>TOTAL</b>			<b>32.38</b>	<b>27.72</b>	<b>5.27</b>	<b>2.79</b>

<b>2024 P1 Rough Grading, P1 Utility Trenching, &amp; P1 Fine Grading</b>			<b>69.69</b>	<b>62.15</b>	<b>10.85</b>	<b>5.86</b>
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<b>5.00-acre LST</b>			<b>221</b>	<b>1,311</b>	<b>10.99</b>	<b>6.00</b>
Exceed Threshold?			No	No	No	No

<b>2024 P1 Utility Trenching &amp; P1 Fine Grading</b>			<b>37.31</b>	<b>34.43</b>	<b>5.58</b>	<b>3.07</b>
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<b>4.00-acre LST</b>			<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?			No	No	No	No

**Phase 1 Asphalt Paving**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2024</b>				
	Off-Road	9.5246	14.6258	0.4685	0.431
	Paving			0	0
	<b>Total</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.4685</b>	<b>0.431</b>
<b>TOTAL</b>		<b>9.52</b>	<b>14.63</b>	<b>0.47</b>	<b>0.43</b>

Onsite	<b>2024</b>				
	Off-Road	9.5246	14.6258	0.4685	0.431
	Paving			0	0
	<b>Total</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.4685</b>	<b>0.431</b>
<b>TOTAL</b>		<b>9.52</b>	<b>14.63</b>	<b>0.47</b>	<b>0.43</b>

Onsite	<b>2024</b>				
	Off-Road	9.52	14.63	0.47	0.43
	Paving	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>9.52</b>	<b>14.63</b>	<b>0.47</b>	<b>0.43</b>
<b>TOTAL</b>		<b>9.52</b>	<b>14.63</b>	<b>0.47</b>	<b>0.43</b>

<b>2024 P1 Fine Grading &amp; P1 Asphalt Paving</b>	<b>41.90</b>	<b>42.35</b>	<b>5.74</b>	<b>3.22</b>
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<b>4.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

**Phase 1 Finishing/Landscaping**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2024</b>				
	Off-Road	1.4424	2.2265	0.0662	0.0609
	<b>Total</b>	<b>1.4424</b>	<b>2.2265</b>	<b>0.0662</b>	<b>0.0609</b>
<b>TOTAL</b>		<b>1.44</b>	<b>2.23</b>	<b>0.07</b>	<b>0.06</b>

Onsite	<b>2024</b>				
	Off-Road	1.4424	2.2265	0.0662	0.0609
	<b>Total</b>	<b>1.4424</b>	<b>2.2265</b>	<b>0.0662</b>	<b>0.0609</b>
<b>TOTAL</b>		<b>1.44</b>	<b>2.23</b>	<b>0.07</b>	<b>0.06</b>

Onsite	<b>2024</b>				
	Off-Road	1.44	2.23	0.07	0.06
	<b>Total</b>	<b>1.44</b>	<b>2.23</b>	<b>0.07</b>	<b>0.06</b>
<b>TOTAL</b>		<b>1.44</b>	<b>2.23</b>	<b>0.07</b>	<b>0.06</b>

<b>2024 P1 Fine Grading, P1 Asphalt Paving, &amp; P1 Finish/Landscape</b>	<b>43.34</b>	<b>44.58</b>	<b>5.80</b>	<b>3.28</b>
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<b>4.50-acre LST</b>	<b>209</b>	<b>1,219</b>	<b>10.16</b>	<b>5.67</b>
Exceed Threshold?	No	No	No	No

**Phase 1 Building Construction**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2024</b>				
	Off-Road	13.4438	16.1668	0.6133	0.5769
	Total	13.4438	16.1668	0.6133	0.5769
<b>TOTAL</b>		<b>13.44</b>	<b>16.17</b>	<b>0.61</b>	<b>0.58</b>
Onsite	<b>2024</b>				
	Off-Road	13.4438	16.1668	0.6133	0.5769
	Total	13.4438	16.1668	0.6133	0.5769
<b>TOTAL</b>		<b>13.44</b>	<b>16.17</b>	<b>0.61</b>	<b>0.58</b>
Onsite	<b>2024</b>				
	Off-Road	13.44	16.17	0.61	0.58
	Total	13.44	16.17	0.61	0.58
<b>TOTAL</b>		<b>13.44</b>	<b>16.17</b>	<b>0.61</b>	<b>0.58</b>

<b>1.31-acre LST</b>	<b>117</b>	<b>597</b>	<b>4.62</b>	<b>3.31</b>
Exceed Threshold?	No	No	No	No

<b>2024 P1 Asphalt Paving, P1 Finish/Landscape, &amp; P1 Building</b>	<b>24.41</b>	<b>33.02</b>	<b>1.15</b>	<b>1.07</b>
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<b>1.81-acre LST</b>	<b>139</b>	<b>717</b>	<b>5.62</b>	<b>3.81</b>
Exceed Threshold?	No	No	No	No

<b>2024 P1 Finish/Landscape &amp; P1 Building</b>	<b>14.89</b>	<b>18.39</b>	<b>0.68</b>	<b>0.64</b>
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<b>1.81-acre LST</b>	<b>139</b>	<b>717</b>	<b>5.62</b>	<b>3.81</b>
Exceed Threshold?	No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2025</b>				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>		<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>
Onsite	<b>2025</b>				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>		<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>
Onsite	<b>2025</b>				
	Off-Road	12.47	16.08	0.53	0.50
	Total	12.47	16.08	0.53	0.50
<b>TOTAL</b>		<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

<b>1.31-acre LST</b>	<b>117</b>	<b>597</b>	<b>4.62</b>	<b>3.31</b>
Exceed Threshold?	No	No	No	No

**Phase 1 Architectural Coating**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2025</b>				
	Archit. Coating			0	0
	Off-Road	1.1455	1.8091	0.0515	0.0515
	<b>Total</b>	<b>1.1455</b>	<b>1.8091</b>	<b>0.0515</b>	<b>0.0515</b>
<b>TOTAL</b>		<b>1.15</b>	<b>1.81</b>	<b>0.05</b>	<b>0.05</b>

Onsite	<b>2025</b>				
	Archit. Coating			0	0
	Off-Road	1.1455	1.8091	0.0515	0.0515
	<b>Total</b>	<b>1.1455</b>	<b>1.8091</b>	<b>0.0515</b>	<b>0.0515</b>
<b>TOTAL</b>		<b>1.15</b>	<b>1.81</b>	<b>0.05</b>	<b>0.05</b>

Onsite	<b>2025</b>				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	1.15	1.81	0.05	0.05
	<b>Total</b>	<b>1.15</b>	<b>1.81</b>	<b>0.05</b>	<b>0.05</b>
<b>TOTAL</b>		<b>1.15</b>	<b>1.81</b>	<b>0.05</b>	<b>0.05</b>

<b>2025 P1 Building Construction, P1 Architectural Coating, &amp; P2 Rough Grading</b>		<b>13.62</b>	<b>17.89</b>	<b>0.58</b>	<b>0.55</b>
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<b>1.31-acre LST</b>	<b>117</b>	<b>597</b>	<b>4.62</b>	<b>3.31</b>
Exceed Threshold?	No	No	No	No

**Eastern Remediation Site Preparation**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2024</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	27.176	18.3356	1.2294	1.131
	<b>Total</b>	<b>27.176</b>	<b>18.3356</b>	<b>9.6327</b>	<b>5.4498</b>

Offsite					
	Hauling				
	Vendor				
	Worker				
	<b>Total</b>				
<b>TOTAL</b>		<b>27.18</b>	<b>18.34</b>	<b>9.63</b>	<b>5.45</b>

Onsite	<b>2024</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	27.176	18.3356	1.2294	1.131
	<b>Total</b>	<b>27.176</b>	<b>18.3356</b>	<b>9.6327</b>	<b>5.4498</b>
<b>TOTAL</b>		<b>27.18</b>	<b>18.34</b>	<b>9.63</b>	<b>5.45</b>

Onsite	<b>2024</b>				
	Fugitive Dust	0.00	0.00	8.40	4.32
	Off-Road	27.18	18.34	1.23	1.13
	<b>Total</b>	<b>27.18</b>	<b>18.34</b>	<b>9.63</b>	<b>5.45</b>
<b>TOTAL</b>		<b>27.18</b>	<b>18.34</b>	<b>9.63</b>	<b>5.45</b>



**Eastern Remediation Rough Grading**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2024</b>				
	Fugitive Dust			3.9843	1.5695
	Off-Road	32.377	27.7228	1.3354	1.2286
	<b>Total</b>	<b>32.377</b>	<b>27.7228</b>	<b>5.3197</b>	<b>2.7981</b>
<b>TOTAL</b>		<b>32.38</b>	<b>27.72</b>	<b>5.32</b>	<b>2.80</b>
Onsite	<b>2024</b>				
	Fugitive Dust			3.9843	1.5695
	Off-Road	32.377	27.7228	1.3354	1.2286
	<b>Total</b>	<b>32.377</b>	<b>27.7228</b>	<b>5.3197</b>	<b>2.7981</b>
<b>TOTAL</b>		<b>32.38</b>	<b>27.72</b>	<b>5.32</b>	<b>2.80</b>
Onsite	<b>2024</b>				
	Fugitive Dust	0.00	0.00	3.98	1.57
	Off-Road	32.38	27.72	1.34	1.23
	<b>Total</b>	<b>32.38</b>	<b>27.72</b>	<b>5.32</b>	<b>2.80</b>
<b>TOTAL</b>		<b>32.38</b>	<b>27.72</b>	<b>5.32</b>	<b>2.80</b>

**Phase 2 Site Preparation**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2024</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	27.176	18.3356	1.2294	1.131
	<b>Total</b>	<b>27.176</b>	<b>18.3356</b>	<b>9.6327</b>	<b>5.4498</b>
<b>TOTAL</b>		<b>27.18</b>	<b>18.34</b>	<b>9.63</b>	<b>5.45</b>
Onsite	<b>2024</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	27.176	18.3356	1.2294	1.131
	<b>Total</b>	<b>27.176</b>	<b>18.3356</b>	<b>9.6327</b>	<b>5.4498</b>
<b>TOTAL</b>		<b>27.18</b>	<b>18.34</b>	<b>9.63</b>	<b>5.45</b>
Onsite	<b>2024</b>				
	Fugitive Dust	0.00	0.00	8.40	4.32
	Off-Road	27.18	18.34	1.23	1.13
	<b>Total</b>	<b>27.18</b>	<b>18.34</b>	<b>9.63</b>	<b>5.45</b>
<b>TOTAL</b>		<b>27.18</b>	<b>18.34</b>	<b>9.63</b>	<b>5.45</b>

<b>3.50-acre LST</b>	<b>184</b>	<b>1,036</b>	<b>8.50</b>	<b>5.00</b>
Exceed Threshold?	No	No	Yes	Yes

<b>2024 P1 Building Construction, P2 Site Preparation, &amp; East Remediation Site Preparation</b>	<b>67.80</b>	<b>52.84</b>	<b>19.88</b>	<b>11.48</b>
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<b>5.00-acre LST</b>	<b>221</b>	<b>1,311</b>	<b>10.99</b>	<b>6.00</b>
Exceed Threshold?	No	No	Yes	Yes

<b>2024 P1 Building Construction, P2 Site Preparation, &amp; East Remediation Grading</b>	<b>73.00</b>	<b>62.23</b>	<b>15.57</b>	<b>8.82</b>
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<b>5.00-acre LST</b>	<b>221</b>	<b>1,311</b>	<b>10.99</b>	<b>6.00</b>
Exceed Threshold?	No	No	Yes	Yes

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2025</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	25.2339	17.9118	1.0868	0.9999
	Total	25.2339	17.9118	9.4902	5.3187
<b>TOTAL</b>		<b>25.23</b>	<b>17.91</b>	<b>9.49</b>	<b>5.32</b>

Onsite	<b>2025</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	25.2339	17.9118	1.0868	0.9999
	Total	25.2339	17.9118	9.4902	5.3187
<b>TOTAL</b>		<b>25.23</b>	<b>17.91</b>	<b>9.49</b>	<b>5.32</b>

Onsite	<b>2025</b>				
	Fugitive Dust	0.00	0.00	8.40	4.32
	Off-Road	25.23	17.91	1.09	1.00
	Total	25.23	17.91	9.49	5.32
<b>TOTAL</b>		<b>25.23</b>	<b>17.91</b>	<b>9.49</b>	<b>5.32</b>

<b>3.50-acre LST</b>	<b>184</b>	<b>1,036</b>	<b>8.50</b>	<b>5.00</b>
Exceed Threshold?	No	No	Yes	Yes

<b>Phase 2 Rough Grading</b>
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		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2025</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	Total	27.9429	26.3311	5.0654	2.6024
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite	<b>2025</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	Total	27.9429	26.3311	5.0654	2.6024
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite	<b>2025</b>				
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	27.94	26.33	1.13	1.04
	Total	27.94	26.33	5.07	2.60
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

<b>4.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

<b>2025 P1 Building Construction &amp; P2 Rough Grading</b>	<b>41.39</b>	<b>42.50</b>	<b>5.68</b>	<b>3.18</b>
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<b>5.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

### Phase 2 Utility Trenching

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2025</b>				
	Off-Road	5.4135	9.1328	0.3174	0.292
	Total	5.4135	9.1328	0.3174	0.292
<b>TOTAL</b>		<b>5.41</b>	<b>9.13</b>	<b>0.32</b>	<b>0.29</b>

Onsite	<b>2025</b>				
	Off-Road	5.4135	9.1328	0.3174	0.292
	Total	5.4135	9.1328	0.3174	0.292
<b>TOTAL</b>		<b>5.41</b>	<b>9.13</b>	<b>0.32</b>	<b>0.29</b>

Onsite	<b>2025</b>				
	Off-Road	5.41	9.13	0.32	0.29
	Total	5.41	9.13	0.32	0.29
<b>TOTAL</b>		<b>5.41</b>	<b>9.13</b>	<b>0.32</b>	<b>0.29</b>

<b>2025 P1 Building Construction, P2 Rough Grading, P1 Architectural Coating, &amp; P2 Utility Trenching</b>	<b>33.36</b>	<b>35.46</b>	<b>5.38</b>	<b>2.89</b>
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<b>4.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

### Phase 2 Fine Grading

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2025</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	Total	27.9429	26.3311	5.0654	2.6024
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite	<b>2025</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	Total	27.9429	26.3311	5.0654	2.6024
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite	<b>2025</b>				
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	27.94	26.33	1.13	1.04
	Total	27.94	26.33	5.07	2.60
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

<b>4.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

<b>2025 P2 Rough Grading, P2 Trenching &amp; P2 Fine Grading</b>	<b>61.30</b>	<b>61.80</b>	<b>10.45</b>	<b>5.50</b>
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<b>5.00-acre LST</b>	<b>221</b>	<b>1,311</b>	<b>10.99</b>	<b>6.00</b>
Exceed Threshold?	No	No	No	No

<b>2025 P2 Trenching &amp; P2 Fine Grading</b>	<b>33.36</b>	<b>35.46</b>	<b>5.38</b>	<b>2.89</b>
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<b>4.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

**Phase 2 Asphalt Paving**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2025</b>				
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	Total	8.5816	14.578	0.4185	0.385
<b>TOTAL</b>		<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

Onsite	<b>2025</b>				
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	Total	8.5816	14.578	0.4185	0.385
<b>TOTAL</b>		<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

Onsite	<b>2025</b>				
	Off-Road	8.58	14.58	0.42	0.39
	Paving	0.00	0.00	0.00	0.00
	Total	8.58	14.58	0.42	0.39
<b>TOTAL</b>		<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

<b>2025 P2 Fine Grading &amp; P2 Asphalt Paving</b>	<b>36.52</b>	<b>40.91</b>	<b>5.48</b>	<b>2.99</b>
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<b>4.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2026</b>				
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	Total	8.5816	14.578	0.4185	0.385
<b>TOTAL</b>		<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

Onsite		<b>2026</b>				
	Off-Road		8.5816	14.578	0.4185	0.385
	Paving				0	0
	Total		8.5816	14.578	0.4185	0.385
<b>TOTAL</b>			<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

Onsite		<b>2026</b>				
	Off-Road		8.58	14.58	0.42	0.39
	Paving		0.00	0.00	0.00	0.00
	Total		8.58	14.58	0.42	0.39
<b>TOTAL</b>			<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

**Phase 2 Finishing/Landscaping**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2025</b>				
	Off-Road		1.3297	2.2206	0.0539	0.0496
	Total		1.3297	2.2206	0.0539	0.0496
<b>TOTAL</b>			<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

Onsite		<b>2025</b>				
	Off-Road		1.3297	2.2206	0.0539	0.0496
	Total		1.3297	2.2206	0.0539	0.0496
<b>TOTAL</b>			<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

Onsite		<b>2025</b>				
	Off-Road		1.33	2.22	0.05	0.05
	Total		1.33	2.22	0.05	0.05
<b>TOTAL</b>			<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

<b>2025 P2 Fine Grading, P2 Asphalt Paving, &amp; P2 Finish/Landscape</b>			<b>37.85</b>	<b>43.13</b>	<b>5.54</b>	<b>3.04</b>
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<b>4.50-acre LST</b>			<b>209</b>	<b>1,219</b>	<b>10.16</b>	<b>5.67</b>
Exceed Threshold?			No	No	No	No

<b>2025 P2 Asphalt Paving &amp; P2 Finish/Landscape</b>			<b>9.91</b>	<b>16.80</b>	<b>0.47</b>	<b>0.43</b>
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<b>&lt;=1.00-acre LST</b>			<b>103</b>	<b>522</b>	<b>4.00</b>	<b>3.00</b>
Exceed Threshold?			No	No	No	No

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2026</b>				
	Off-Road		1.3297	2.2206	0.0539	0.0496
	Total		1.3297	2.2206	0.0539	0.0496
<b>TOTAL</b>			<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

Onsite		<b>2026</b>				
	Off-Road		1.3297	2.2206	0.0539	0.0496
	Total		1.3297	2.2206	0.0539	0.0496
<b>TOTAL</b>			<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

Onsite		<b>2026</b>				
	Off-Road		1.33	2.22	0.05	0.05
	Total		1.33	2.22	0.05	0.05
<b>TOTAL</b>			<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

**Phase 2 Building Construction**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2025</b>				
	Off-Road		12.4697	16.0847	0.5276	0.4963
	Total		12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

Onsite		<b>2025</b>				
	Off-Road		12.4697	16.0847	0.5276	0.4963
	Total		12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

Onsite		<b>2025</b>				
	Off-Road		12.47	16.08	0.53	0.50
	Total		12.47	16.08	0.53	0.50
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

**2025 P2 Asphalt Paving, P2 Finishing/Landscaping, & P2 Building Construction**

<b>1.81-acre LST</b>			<b>139</b>	<b>717</b>	<b>5.62</b>	<b>3.81</b>
Exceed Threshold?			No	No	No	No

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2026</b>				
	Off-Road		12.4697	16.0847	0.5276	0.4963
	Total		12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

Onsite		<b>2026</b>				
	Off-Road		12.4697	16.0847	0.5276	0.4963
	Total		12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

Onsite		<b>2026</b>				
	Off-Road		12.47	16.08	0.53	0.50
	Total		12.47	16.08	0.53	0.50
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

<b>1.31-acre LST</b>	<b>117</b>	<b>597</b>	<b>4.62</b>	<b>3.31</b>
Exceed Threshold?	No	No	No	No

<b>2026 P2 Asphalt Paving, P2 Finishing/Landscaping, &amp; P2 Building Construction</b>	<b>22.38</b>	<b>32.88</b>	<b>1.00</b>	<b>0.93</b>
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<b>1.81-acre LST</b>	<b>139</b>	<b>717</b>	<b>5.62</b>	<b>3.81</b>
Exceed Threshold?	No	No	No	No

<b>2026 P2 Finish/Landscape &amp; P2 Building</b>	<b>13.80</b>	<b>18.31</b>	<b>0.58</b>	<b>0.55</b>
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<b>1.81-acre LST</b>	<b>139</b>	<b>717</b>	<b>5.62</b>	<b>3.81</b>
Exceed Threshold?	No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2027</b>				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>		<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>
Onsite	<b>2027</b>				
	Off-Road	12.4697	16.0847	0.5276	0.4963
	Total	12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>		<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>
Onsite	<b>2027</b>				
	Off-Road	12.47	16.08	0.53	0.50
	Total	12.47	16.08	0.53	0.50
<b>TOTAL</b>		<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

### Phase 2 Architectural Coating

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2027</b>				
	Archit. Coating			0	0
	Off-Road	1.1455	1.8091	0.0515	0.0515
	Total	1.1455	1.8091	0.0515	0.0515
<b>TOTAL</b>		<b>1.15</b>	<b>1.81</b>	<b>0.05</b>	<b>0.05</b>
Onsite	<b>2027</b>				
	Archit. Coating			0	0
	Off-Road	1.1455	1.8091	0.0515	0.0515
	Total	1.1455	1.8091	0.0515	0.0515
<b>TOTAL</b>		<b>1.15</b>	<b>1.81</b>	<b>0.05</b>	<b>0.05</b>
Onsite	<b>2027</b>				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	1.15	1.81	0.05	0.05
	Total	1.15	1.81	0.05	0.05
<b>TOTAL</b>		<b>1.15</b>	<b>1.81</b>	<b>0.05</b>	<b>0.05</b>

**Phase 3 Site Preparation**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2026</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	25.2339	17.9118	1.0868	0.9999
	<b>Total</b>	<b>25.2339</b>	<b>17.9118</b>	<b>9.4902</b>	<b>5.3187</b>
<b>TOTAL</b>		<b>25.23</b>	<b>17.91</b>	<b>9.49</b>	<b>5.32</b>

Onsite	<b>2026</b>				
	Fugitive Dust			8.4034	4.3188
	Off-Road	25.2339	17.9118	1.0868	0.9999
	<b>Total</b>	<b>25.2339</b>	<b>17.9118</b>	<b>9.4902</b>	<b>5.3187</b>
<b>TOTAL</b>		<b>25.23</b>	<b>17.91</b>	<b>9.49</b>	<b>5.32</b>

Onsite	<b>2026</b>				
	Fugitive Dust	0.00	0.00	8.40	4.32
	Off-Road	25.23	17.91	1.09	1.00
	<b>Total</b>	<b>25.23</b>	<b>17.91</b>	<b>9.49</b>	<b>5.32</b>
<b>TOTAL</b>		<b>25.23</b>	<b>17.91</b>	<b>9.49</b>	<b>5.32</b>

<b>2026 P2 Building &amp; P3 Site Preparation</b>	<b>37.70</b>	<b>34.00</b>	<b>10.02</b>	<b>5.82</b>
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<b>4.81-acre LST</b>	<b>216</b>	<b>1,277</b>	<b>10.68</b>	<b>5.87</b>
Exceed Threshold?	No	No	No	No

**Phase 3 Rough Grading**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2026</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	<b>Total</b>	<b>27.9429</b>	<b>26.3311</b>	<b>5.0654</b>	<b>2.6024</b>
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite	<b>2026</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	<b>Total</b>	<b>27.9429</b>	<b>26.3311</b>	<b>5.0654</b>	<b>2.6024</b>
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite	<b>2026</b>				
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	27.94	26.33	1.13	1.04
	<b>Total</b>	<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

<b>2026 P2 Building &amp; P3 Rough Grading</b>	<b>40.41</b>	<b>42.42</b>	<b>5.59</b>	<b>3.10</b>
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<b>5.00-acre LST</b>	<b>221</b>	<b>1,311</b>	<b>10.99</b>	<b>6.00</b>
Exceed Threshold?	No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2027</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	Total	27.9429	26.3311	5.0654	2.6024
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite	<b>2027</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	Total	27.9429	26.3311	5.0654	2.6024
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite	<b>2027</b>				
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	27.94	26.33	1.13	1.04
	Total	27.94	26.33	5.07	2.60
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

<b>2027 P2 Building &amp; P3 Rough Grading</b>	<b>40.41</b>	<b>42.42</b>	<b>5.59</b>	<b>3.10</b>
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<b>5.00-acre LST</b>	<b>221</b>	<b>1,311</b>	<b>10.99</b>	<b>6.00</b>
Exceed Threshold?	No	No	No	No

<b>2027 P2 Building Construction, P3 Rough Grading, &amp; P2 Architectural Coating</b>	<b>41.56</b>	<b>44.22</b>	<b>5.64</b>	<b>3.15</b>
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<b>5.00-acre LST</b>	<b>221</b>	<b>1,311</b>	<b>10.99</b>	<b>6.00</b>
Exceed Threshold?	No	No	No	No

<b>Phase 3 Utility Trenching</b>		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2027</b>				
	Off-Road	5.4135	9.1328	0.3174	0.292
	Total	5.4135	9.1328	0.3174	0.292
<b>TOTAL</b>		<b>5.41</b>	<b>9.13</b>	<b>0.32</b>	<b>0.29</b>

Onsite	<b>2027</b>				
	Off-Road	5.4135	9.1328	0.3174	0.292
	Total	5.4135	9.1328	0.3174	0.292
<b>TOTAL</b>		<b>5.41</b>	<b>9.13</b>	<b>0.32</b>	<b>0.29</b>

Onsite	<b>2027</b>				
	Off-Road	5.41	9.13	0.32	0.29
	Total	5.41	9.13	0.32	0.29
<b>TOTAL</b>		<b>5.41</b>	<b>9.13</b>	<b>0.32</b>	<b>0.29</b>

<b>2027 P2 Building Construction, P3 Rough Grading, P2 Architectural Coating, &amp; P3 Utility Trenching</b>	<b>46.97</b>	<b>53.36</b>	<b>5.96</b>	<b>3.44</b>
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<b>5.00-acre LST</b>	<b>221</b>	<b>1,311</b>	<b>10.99</b>	<b>6.00</b>
Exceed Threshold?	No	No	No	No

**Phase 3 Fine Grading**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2027</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	<b>Total</b>	<b>27.9429</b>	<b>26.3311</b>	<b>5.0654</b>	<b>2.6024</b>
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite	<b>2027</b>				
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	<b>Total</b>	<b>27.9429</b>	<b>26.3311</b>	<b>5.0654</b>	<b>2.6024</b>
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite	<b>2027</b>				
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	27.94	26.33	1.13	1.04
	<b>Total</b>	<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

<b>2027 P2 Building Construction, P3 Rough Grading, P2 Architectural Coating, P3 Utility Trenching, &amp; P3 Fine Grading</b>	<b>74.91</b>	<b>79.69</b>	<b>11.03</b>	<b>6.04</b>
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<b>5.00-acre LST</b>	<b>221</b>	<b>1,311</b>	<b>10.99</b>	<b>6.00</b>
Exceed Threshold?	No	No	Yes	Yes

<b>2027 P3 Rough Grading, P3 Utility Trenching, &amp; P3 Fine Grading</b>	<b>61.30</b>	<b>61.80</b>	<b>10.45</b>	<b>5.50</b>
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<b>5.00-acre LST</b>	<b>221</b>	<b>1,311</b>	<b>10.99</b>	<b>6.00</b>
Exceed Threshold?	No	No	No	No

<b>2027 P3 Utility Trenching &amp; P3 Fine Grading</b>	<b>33.36</b>	<b>35.46</b>	<b>5.38</b>	<b>2.89</b>
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<b>4.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2028</b>			
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	Total	<b>27.9429</b>	<b>26.3311</b>	<b>5.0654</b>	<b>2.6024</b>
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite		<b>2028</b>			
	Fugitive Dust			3.9345	1.562
	Off-Road	27.9429	26.3311	1.1309	1.0404
	Total	<b>27.9429</b>	<b>26.3311</b>	<b>5.0654</b>	<b>2.6024</b>
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

Onsite		<b>2028</b>			
	Fugitive Dust	0.00	0.00	3.93	1.56
	Off-Road	27.94	26.33	1.13	1.04
	Total	<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>
<b>TOTAL</b>		<b>27.94</b>	<b>26.33</b>	<b>5.07</b>	<b>2.60</b>

### Phase 3 Asphalt Paving

		NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2027</b>			
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	Total	<b>8.5816</b>	<b>14.578</b>	<b>0.4185</b>	<b>0.385</b>
<b>TOTAL</b>		<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

Onsite		<b>2027</b>			
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	Total	<b>8.5816</b>	<b>14.578</b>	<b>0.4185</b>	<b>0.385</b>
<b>TOTAL</b>		<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

Onsite		<b>2027</b>			
	Off-Road	8.58	14.58	0.42	0.39
	Paving	0.00	0.00	0.00	0.00
	Total	<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>
<b>TOTAL</b>		<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

<b>2027 P3 Utility Trenching, P3 Fine Grading, &amp; P3 Asphalt Paving</b>	<b>41.94</b>	<b>50.04</b>	<b>5.80</b>	<b>3.28</b>
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<b>4.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

<b>2027 P3 Fine Grading &amp; P3 Asphalt Paving</b>	<b>36.52</b>	<b>40.91</b>	<b>5.48</b>	<b>2.99</b>
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<b>4.00-acre LST</b>	<b>196</b>	<b>1,128</b>	<b>9.33</b>	<b>5.33</b>
Exceed Threshold?	No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2028</b>				
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	<b>Total</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.4185</b>	<b>0.385</b>
<b>TOTAL</b>		<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

Onsite	<b>2028</b>				
	Off-Road	8.5816	14.578	0.4185	0.385
	Paving			0	0
	<b>Total</b>	<b>8.5816</b>	<b>14.578</b>	<b>0.4185</b>	<b>0.385</b>
<b>TOTAL</b>		<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

Onsite	<b>2028</b>				
	Off-Road	8.58	14.58	0.42	0.39
	Paving	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>
<b>TOTAL</b>		<b>8.58</b>	<b>14.58</b>	<b>0.42</b>	<b>0.39</b>

### Phase 3 Finishing/Landscaping

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2027</b>				
	Off-Road	1.3297	2.2206	0.0539	0.0496
	<b>Total</b>	<b>1.3297</b>	<b>2.2206</b>	<b>0.0539</b>	<b>0.0496</b>
<b>TOTAL</b>		<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

Onsite	<b>2027</b>				
	Off-Road	1.3297	2.2206	0.0539	0.0496
	<b>Total</b>	<b>1.3297</b>	<b>2.2206</b>	<b>0.0539</b>	<b>0.0496</b>
<b>TOTAL</b>		<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

Onsite	<b>2027</b>				
	Off-Road	1.33	2.22	0.05	0.05
	<b>Total</b>	<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>
<b>TOTAL</b>		<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

<b>2027 P3 Fine Grading, P3 Asphalt Paving, &amp; P3 Finishing/Landscaping</b>	<b>37.85</b>	<b>43.13</b>	<b>5.54</b>	<b>3.04</b>
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<b>4.50-acre LST</b>	<b>209</b>	<b>1,219</b>	<b>10.16</b>	<b>5.67</b>
Exceed Threshold?	No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2028</b>				
	Off-Road	1.3297	2.2206	0.0539	0.0496
	<b>Total</b>	<b>1.3297</b>	<b>2.2206</b>	<b>0.0539</b>	<b>0.0496</b>
<b>TOTAL</b>		<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

Onsite		<b>2028</b>				
	Off-Road		1.3297	2.2206	0.0539	0.0496
	Total		1.3297	2.2206	0.0539	0.0496
<b>TOTAL</b>			<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

Onsite		<b>2028</b>				
	Off-Road		1.33	2.22	0.05	0.05
	Total		1.33	2.22	0.05	0.05
<b>TOTAL</b>			<b>1.33</b>	<b>2.22</b>	<b>0.05</b>	<b>0.05</b>

<b>&lt;=1.00-acre LST</b>		<b>103</b>	<b>522</b>	<b>4.00</b>	<b>3.00</b>
Exceed Threshold?		No	No	No	No

<b>2028 P3 Fine Grading, P3 Asphalt Paving, &amp; P3 Finishing/Landscaping</b>		<b>37.85</b>	<b>43.13</b>	<b>5.54</b>	<b>3.04</b>
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<b>4.50-acre LST</b>		<b>209</b>	<b>1,219</b>	<b>10.16</b>	<b>5.67</b>
Exceed Threshold?		No	No	No	No

**Phase 3 Building Construction**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2028</b>				
	Off-Road		12.4697	16.0847	0.5276	0.4963
	Total		12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

Onsite		<b>2028</b>				
	Off-Road		12.4697	16.0847	0.5276	0.4963
	Total		12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

Onsite		<b>2028</b>				
	Off-Road		12.47	16.08	0.53	0.50
	Total		12.47	16.08	0.53	0.50
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

<b>1.31-acre LST</b>		<b>117</b>	<b>597</b>	<b>4.62</b>	<b>3.31</b>
Exceed Threshold?		No	No	No	No

<b>2028 P3 Finish/Landscape &amp; P3 Building Construction</b>		<b>13.80</b>	<b>18.31</b>	<b>0.58</b>	<b>0.55</b>
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<b>1.81-acre LST</b>		<b>139</b>	<b>717</b>	<b>5.62</b>	<b>3.81</b>
Exceed Threshold?		No	No	No	No

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2029</b>				
	Off-Road		12.4697	16.0847	0.5276	0.4963
	Total		12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

Onsite		<b>2029</b>				
	Off-Road		12.4697	16.0847	0.5276	0.4963
	Total		12.4697	16.0847	0.5276	0.4963
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

Onsite		<b>2029</b>				
	Off-Road		12.47	16.08	0.53	0.50
	Total		12.47	16.08	0.53	0.50
<b>TOTAL</b>			<b>12.47</b>	<b>16.08</b>	<b>0.53</b>	<b>0.50</b>

<b>1.31-acre LST</b>			<b>117</b>	<b>597</b>	<b>4.62</b>	<b>3.31</b>
Exceed Threshold?			No	No	No	No

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2030</b>				
	Off-Road		7.9346	16.157	0.1481	0.1481
	Total		7.9346	16.157	0.1481	0.1481
<b>TOTAL</b>			<b>7.93</b>	<b>16.16</b>	<b>0.15</b>	<b>0.15</b>

Onsite		<b>2030</b>				
	Off-Road		7.9346	16.157	0.1481	0.1481
	Total		7.9346	16.157	0.1481	0.1481
<b>TOTAL</b>			<b>7.93</b>	<b>16.16</b>	<b>0.15</b>	<b>0.15</b>

Onsite		<b>2030</b>				
	Off-Road		7.93	16.16	0.15	0.15
	Total		7.93	16.16	0.15	0.15
<b>TOTAL</b>			<b>7.93</b>	<b>16.16</b>	<b>0.15</b>	<b>0.15</b>

### Phase 3 Architectural Coating

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2029</b>				
	Archit. Coating				0	0
	Off-Road		1.1455	1.8091	0.0515	0.0515
	Total		1.1455	1.8091	0.0515	0.0515
<b>TOTAL</b>			<b>1.15</b>	<b>1.81</b>	<b>0.05</b>	<b>0.05</b>

Onsite		<b>2029</b>				
	Archit. Coating				0	0
	Off-Road		1.1455	1.8091	0.0515	0.0515
	Total		1.1455	1.8091	0.0515	0.0515
<b>TOTAL</b>			<b>1.15</b>	<b>1.81</b>	<b>0.05</b>	<b>0.05</b>

Onsite		<b>2029</b>				
	Archit. Coating		0.00	0.00	0.00	0.00
	Off-Road		1.15	1.81	0.05	0.05
	Total		1.15	1.81	0.05	0.05
<b>TOTAL</b>			<b>1.15</b>	<b>1.81</b>	<b>0.05</b>	<b>0.05</b>

<b>2029 P3 Building Construction &amp; P3 Architectural Coating</b>	<b>13.62</b>	<b>17.89</b>	<b>0.58</b>	<b>0.55</b>
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<b>1.31-acre LST</b>	<b>117</b>	<b>597</b>	<b>4.62</b>	<b>3.31</b>
Exceed Threshold?	No	No	No	No

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2030</b>				
	Archit. Coating			0	0
	Off-Road	0.8563	1.7977	0.0203	0.0203
	<b>Total</b>	<b>0.8563</b>	<b>1.7977</b>	<b>0.0203</b>	<b>0.0203</b>
<b>TOTAL</b>		<b>0.86</b>	<b>1.80</b>	<b>0.02</b>	<b>0.02</b>

Onsite	<b>2030</b>				
	Archit. Coating			0	0
	Off-Road	0.8563	1.7977	0.0203	0.0203
	<b>Total</b>	<b>0.8563</b>	<b>1.7977</b>	<b>0.0203</b>	<b>0.0203</b>
<b>TOTAL</b>		<b>0.86</b>	<b>1.80</b>	<b>0.02</b>	<b>0.02</b>

Onsite	<b>2030</b>				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	0.86	1.80	0.02	0.02
	<b>Total</b>	<b>0.86</b>	<b>1.80</b>	<b>0.02</b>	<b>0.02</b>
<b>TOTAL</b>		<b>0.86</b>	<b>1.80</b>	<b>0.02</b>	<b>0.02</b>

<b>2030 P3 Building Construction &amp; P3 Architectural Coating</b>	<b>8.79</b>	<b>17.95</b>	<b>0.17</b>	<b>0.17</b>
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<b>1.31-acre LST</b>	<b>117</b>	<b>597</b>	<b>4.62</b>	<b>3.31</b>
Exceed Threshold?	No	No	No	No

## Regional Operation Emissions Worksheet: Unmitigated\*

\*CalEEMod, Version 2020.4.0

### Summer

	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>PM10 Total</b>	<b>PM2.5 Total</b>
Area	36.34	19.29	98.21	0.12	1.98	1.98
Energy	0.63	5.42	2.31	0.03	0.44	0.44
Mobile	26.60	15.95	263.13	0.58	84.79	22.71
<b>Total</b>	<b>63.57</b>	<b>40.66</b>	<b>363.65</b>	<b>0.73</b>	<b>87.20</b>	<b>25.13</b>

### Winter

	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>PM10 Total</b>	<b>PM2.5 Total</b>
Area	36.34	19.29	98.21	0.12	1.98	1.98
Energy	0.63	5.42	2.31	0.03	0.44	0.44
Mobile	26.33	17.38	262.06	0.55	84.79	22.71
<b>Total</b>	<b>63.31</b>	<b>42.10</b>	<b>362.58</b>	<b>0.71</b>	<b>87.20</b>	<b>25.13</b>

### Max Daily

	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>PM10 Total</b>	<b>PM2.5 Total</b>
Area	36.343900	19.290500	98.210100	0.121300	1.978600	1.978600
Energy	0.634700	5.424000	2.308100	0.034600	0.438500	0.438500
Mobile	26.595500	17.381700	263.133500	0.576000	84.786100	22.708200
<b>Total</b>	<b>63.57</b>	<b>42.10</b>	<b>363.65</b>	<b>0.73</b>	<b>87.20</b>	<b>25.13</b>

### Regional Thresholds

Regional Thresholds	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Exceeds Thresholds?	Yes	No	No	No	No	No



## Regional Operation Emissions Worksheet: Mitigated\*

\*CalEEMod, Version 2020.4.0

### Summer

	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>PM10 Total</b>	<b>PM2.5 Total</b>
Area <sup>1</sup>	34.21	1.04	90.45	0.00	0.50	0.50
Energy <sup>1</sup>	0	0	0	0	0	0
Mobile	26.60	15.95	263.13	0.58	84.79	22.71
<b>Total</b>	<b>60.80</b>	<b>16.99</b>	<b>353.58</b>	<b>0.58</b>	<b>85.29</b>	<b>23.21</b>

### Winter

	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>PM10 Total</b>	<b>PM2.5 Total</b>
Area <sup>1</sup>	34.21	1.04	90.45	0.00	0.50	0.50
Energy <sup>1</sup>	0	0	0	0	0	0
Mobile	26.33	17.38	262.06	0.55	84.79	22.71
<b>Total</b>	<b>60.54</b>	<b>18.43</b>	<b>352.50</b>	<b>0.56</b>	<b>85.29</b>	<b>23.21</b>

### Max Daily

	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>PM10 Total</b>	<b>PM2.5 Total</b>
Area <sup>1</sup>	34.208600	1.043500	90.445300	0.004790	0.503300	0.503300
Energy <sup>1</sup>	0	0	0	0	0	0
Mobile	26.595500	17.381700	263.133500	0.576000	84.786100	22.708200
<b>Total</b>	<b>60.80</b>	<b>18.43</b>	<b>353.58</b>	<b>0.58</b>	<b>85.29</b>	<b>23.21</b>

### Regional Thresholds

Exceeds Thresholds?	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
	Yes	No	No	No	No	No

	<b>ROG</b>	<b>NOx</b>	<b>CO</b>	<b>SO2</b>	<b>PM10 Total</b>	<b>PM2.5 Total</b>
Unmitigated Emissions	63.57	42.10	363.65	0.73	87.20	25.13
Mitigation Emissions	60.80	18.43	353.58	0.58	85.29	23.21
<b>Net Change</b>	<b>2.77</b>	<b>23.67</b>	<b>10.07</b>	<b>0.15</b>	<b>1.91</b>	<b>1.91</b>

<sup>1</sup> Incorporates Mitigation Measure GHG-1 which prohibits woodburning and natural gas fire places, and requires all homes to be designed and built to be all electric.

## GHG Emissions Inventory

### Construction<sup>1</sup>

	GHG Emissions (MTCO <sub>2</sub> e) <sup>2</sup>					MTCO <sub>2</sub> e Total
	Western Remediation	Phase 1	Eastern Remediation	Phase 2	Phase 3	
2023	316.5751	286.6528				603
2024		938.0731	302.3021	121.1022		1,361
2025		316.5106		1073.0532		1,390
2026				1499.1844	270.0155	1,769
2027				901.6288	1116.4596	2,018
2028					537.2259	537
2029					388.2577	388
2030					193.5435	194
<b>Total Construction</b>	<b>317</b>	<b>1,541</b>	<b>302</b>	<b>3,595</b>	<b>2,506</b>	<b>8,261</b>

<sup>1</sup>CalEEMod, Version 2020.4.0

<sup>2</sup>MTCO<sub>2</sub>e=metric tons of carbon dioxide equivalent.

### Operation<sup>1</sup>

	Annual Emissions (MTCO <sub>2</sub> e/Yr)		
	Unmitigated	Mitigated	
Area	285	19	-266
Energy	2,285	1,809	-477
Mobile - Passenger	8,228	8,228	0
Solid Waste	1,480	1,480	0
Water	340	340	0
Amortized Construction Emissions <sup>2</sup>	275	275	0
<b>Total</b>	<b>12,894</b>	<b>12,152</b>	<b>-742</b>
South Coast AQMD Bright-Line Screening Threshold	3,000	3,000	
<b>Exceed Threshold?</b>	<b>Yes</b>	<b>Yes</b>	

<sup>1</sup>CalEEMod, Version 2020.4.0

<sup>2</sup>Total construction emissions are amortized over 30 years per South Coast AQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2).

## Daily Regional Construction Emissions Worksheet - Mojave Desert Air Basin

\*CalEEMod, Version 2020.4.0

	Distance (mi)	Percent of Haul Route (%)
Total Haul Route Length: <sup>1</sup>	75	100%
Haul Route in the MDAB: <sup>2</sup>	21.9	29%
Haul Route in the SoCAB:	53.1	71%

<sup>1</sup> Based on distance between the project site and Soil Safe of California at 12328 Hibiscus Road in the City of Adelanto.

<sup>2</sup> Based on the distance at the MDAB and SoCAB border along to the haul route to Soil Safe of California.

### Western Remediation Rough Grading

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
<b>Summer</b>						
Total Hauling Emissions	0.6940	53.3632	15.5496	0.2725	8.5098	2.6065
<b>Adjusted MDAB Hauling Emissions</b>	<b>0.2026</b>	<b>15.5821</b>	<b>4.5405</b>	<b>0.0796</b>	<b>2.4849</b>	<b>0.7611</b>
<b>Winter</b>						
Total Hauling Emissions	0.6776	55.4653	15.5991	0.2725	8.5101	2.6068
<b>Adjusted MDAB Hauling Emissions</b>	<b>0.1979</b>	<b>16.1959</b>	<b>4.5549</b>	<b>0.0796</b>	<b>2.4849</b>	<b>0.7612</b>
<b>Maximum Emissions</b>						
Total Hauling Emissions	0.6940	55.4653	15.5991	0.2725	8.5101	2.6068
<b>Adjusted MDAB Hauling Emissions</b>	<b>0.2026</b>	<b>16.1959</b>	<b>4.5549</b>	<b>0.0796</b>	<b>2.4849</b>	<b>0.7612</b>

### Eastern Remediation Rough Grading

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
<b>2024 Summer</b>						
Total Hauling Emissions	0.6583	51.0382	15.4170	0.2583	8.2143	2.5264
<b>Adjusted MDAB Hauling Emissions</b>	<b>0.1922</b>	<b>14.9032</b>	<b>4.5018</b>	<b>0.0754</b>	<b>2.3986</b>	<b>0.7377</b>
<b>2024 Winter</b>						
Total Hauling Emissions	0.6425	53.0482	15.4632	0.2583	8.2145	2.5266
<b>Adjusted MDAB Hauling Emissions</b>	<b>0.1876</b>	<b>15.4901</b>	<b>4.5153</b>	<b>0.0754</b>	<b>2.3986</b>	<b>0.7378</b>
<b>Maximum Emissions</b>						
Total Hauling Emissions	0.6583	53.0482	15.4632	0.2583	8.2145	2.5266
<b>Adjusted MDAB Hauling Emissions</b>	<b>0.1922</b>	<b>15.4901</b>	<b>4.5153</b>	<b>0.0754</b>	<b>2.3986</b>	<b>0.7378</b>

<b>MAX DAILY</b>	<b>0.20</b>	<b>16.20</b>	<b>4.55</b>	<b>0.08</b>	<b>2.48</b>	<b>0.76</b>
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<b>Regional Thresholds</b>	<b>137</b>	<b>137</b>	<b>548</b>	<b>137</b>	<b>82</b>	<b>82</b>
Exceeds Thresholds?	No	No	No	No	No	No

### Greenhouse Gas Emissions

	Total Hauling Emissions <sup>1</sup> (lb/day)	Adjusted MDAB Hauling Emissions (lb/day)
2023	39,569.33	11,554.25
2024	37,606.78	10,981.18
<b>MDAQMD Threshold</b>	<b>n/a</b>	<b>548,000</b>
Exceeds Threshold?	n/a	No

<sup>1</sup> The summer emissions are shown here, which represent the higher emissions between the summer and winter emissions.

# Annual Regional Construction Emissions Worksheet - Mojave Desert Air Basin

\*CalEEMod, Version 2020.4.0

	Distance (mi)	Percent of Haul Route (%)
Total Haul Route Length: <sup>1</sup>	75	100%
Haul Route in the MDAB: <sup>2</sup>	21.9	29%
Haul Route in the SoCAB:	53.1	71%

<sup>1</sup> Based on distance between the project site and Soil Safe of California at 12328 Hibiscus Road in the City of Adelanto.

<sup>2</sup> Based on the distance at the MDAB and SoCAB border along to the haul route to Soil Safe of California.

Western Remediation Rough Grading						
	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Total Hauling Emissions (ton/yr)	0.0058	0.4784	0.1323	0.0023	0.0713	0.0219
<b>Adjusted MDAB Hauling Emissions (ton/yr)</b>	<b>0.0017</b>	<b>0.1397</b>	<b>0.0386</b>	<b>0.0007</b>	<b>0.0208</b>	<b>0.0064</b>

Eastern Remediation Rough Grading						
	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Total Hauling Emissions	0.0055	0.4576	0.1312	0.0022	0.0688	0.0212
<b>Adjusted MDAB Hauling Emissions</b>	<b>0.0016</b>	<b>0.1336</b>	<b>0.0383</b>	<b>0.0006</b>	<b>0.0201</b>	<b>0.0062</b>

<b>MAX DAILY</b>	<b>0.0017</b>	<b>0.1397</b>	<b>0.0386</b>	<b>0.0007</b>	<b>0.0208</b>	<b>0.0064</b>
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<b>Regional Thresholds</b>	<b>137</b>	<b>137</b>	<b>548</b>	<b>137</b>	<b>82</b>	<b>82</b>
Exceeds Thresholds?	No	No	No	No	No	No

## Greenhouse Gas Emissions

	Total Hauling Emissions (metric ton/yr)	Total Hauling Emissions (ton/yr)	Adjusted MDAB Hauling Emissions (ton/yr)
2023	251.83	277.5971825	81.06
2024	239.33	263.8166416	186.78
<b>MDAQMD Threshold</b>	<b>n/a</b>	<b>n/a</b>	<b>100,000</b>
Exceeds Threshold?	n/a	n/a	No

metric ton to ton conversion factor: 0.907185 metric ton/ton

## 2. Criteria Air Pollutant and GHG Modeling Inputs and Assumptions

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**CalEEMod Land Use Inputs: Project**

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Single Family <sup>1</sup>	450	DU	135.10	810,000
Residential	Condo/Townhouse <sup>2</sup>	650	DU	62.90	650,000
Recreational	City Park	15.10	acre	15.10	657,756
Parking	Parking Lot <sup>3</sup>	1.49	acre	1.49	64,800
Parking	Other Asphalt Surfaces	2.0	acre	2.00	87,120
Parking	Other NonAsphalt Surfaces	45.51	acre	45.51	0
				<b>262.10</b>	<b>2,269,676.00</b>

<sup>1</sup> Total land use square feet based on CalEEMod default assumption of 1,800 sf/dwelling unit.

<sup>2</sup> Total land use square feet based on CalEEMod default assumption of 1,000 sf/dwelling unit.

<sup>3</sup> Total parking lot square feet based on CalEEMod default assumption of 400 sf/parking space.

Project Location: Orange County SC  
 Climate Zone: 8  
 Operation Year: 2035  
 Land Use Setting: Urban  
 Utility Company: SCE  
 Source Receptor Area: 16 - North Orange County

**Land Uses/Development**

**Buildings**

	Phase 1	Phase 2	Phase 3	Total	
Plan Area Acreage	68.80	94.90	98.40	262.1	acres
Single Family (DU)	210	105	135	450	dwelling units (DU)
Size (BSF) <sup>1</sup>	378,000	189,000	243,000	810,000	building square feet (BSF)
Acres	35.4	25.2	74.5	135.1	
Townhomes (DU)	143	507	0	650	DU
Size (BSF) <sup>2</sup>	143,000	507,000	0	650,000	BSF
Acres	13.9	49.0	0.0	62.9	
Parks/Recreation(PR)	2.1	13	0	15.1	acres
Open Space (OS)	16.6	6.5	23.9	47.0	acres
Right-of-Way (ROW)	0.8	1.2	0.0	2.0	acres
Number of Surface Lot Parking Spaces	28	134	--	162	parking spaces
Surface Parking Lot Area <sup>3</sup>	11,200	53,600	--	64,800	square feet
	0.257	1.230	--	1.488	acres

<sup>1</sup> Total land use square feet based on CalEEMod default assumption of 1,800 sf/dwelling unit.

<sup>2</sup> Total land use square feet based on CalEEMod default assumption of 1,000 sf/dwelling unit.

<sup>3</sup> Total parking lot square feet based on CalEEMod default assumption of 400 sf/parking space.

**Trip Generation**

Land Use	Unit Amount	Weekday Trip		Saturday Trip		Sunday Trip Generation	
		Generation Rate*	Trips Per Day	Generation Rate*	Trips Per Day	Rate <sup>1</sup>	Trips Per Day
Single Family Detached (DU)	450	9.4289	4,243	9.4800	4,266	8.4800	3,816
Condo/Townhouse (DU)	650	7.2000	4,680	8.7600	5,694	7.1692	4,660
City Park (AC)	15.1	28.3444	428	160.8609	2,429	122.9801	1,857
			<b>9,351</b>		<b>12,389</b>		<b>10,333</b>

<sup>1</sup> Based on information provided by Linscott, Law, & Greenspan

**Vehicle Miles Traveled**

	Weekday <sup>1</sup>	Saturday <sup>1,2</sup>	Sunday <sup>1,2</sup>
Total Daily VMT: <sup>1</sup>	83,659	110,838	92,444
Total Daily ADT: <sup>2</sup>	9,351	12,389	10,333
Average Trip Length (mile/trip):	8.9465	8.9465	8.9465

<sup>1</sup> Weekday VMT provided by Linscott, Law, & Greenspan (LLG) 2022. For purposes of this analysis, the weekday average trip length is also used to calculate the total daily VMT for Saturday and Sunday.

<sup>2</sup> Provided by Linscott, Law, & Greenspan (LLG) 2022.

**Water Use\***

**Water Demand**

Land Use	Average Use Per Day (gpd)	Annual Average (gpy)
Single Family	185,130	67,572,450
Condo/Townhouse	104,000	37,960,000
City Park	30,805	11,243,825
Common Areas	132,602	48,399,730
<b>Total</b>	<b>452,537</b>	<b>165,176,005</b>

**Wastewater Generation**

Land Use	Average Use Per Day (gpd)	Annual Average (gpy)
Single Family	115,980	42,332,700
Condo/Townhouse	153,400	55,991,000
<b>Total</b>	<b>269,380</b>	<b>98,323,700</b>

<b>Total Annual Water Demand:</b>	165,176,005	gpy
<b>Total Annual Wastewater:</b>	98,323,700	gpy
<b>Total Annual Outdoor Water Use:</b>	66,852,305	gpy



**CalEEMod Inputs**

Land Use	Indoor <sup>3</sup>	Outdoor <sup>4</sup>	Total
Single Family	49,161,850.00	22,284,101.67	71,445,951.67
Condo/Townhouse	49,161,850.00	22,284,101.67	71,445,951.67
City Park	0	22,284,101.67	22,284,101.67
Other Asphalt Surfaces	0	0	0
Other NonAsphalt Surfaces	0	0	0
<b>Total</b>	<b>98,323,700</b>	<b>66,852,305</b>	<b>165,176,005</b>

<sup>1</sup> Psomas 2022.

<sup>2</sup> Based on 365 days per year.

<sup>3</sup> For purposes of this analysis, indoor water use is assigned and proportioned equally between the residential uses.

<sup>4</sup> For purposes of this analysis, outdoor water use is assigned and proportioned equally between the residential and park uses.

**Solid Waste\***

Land Uses	Solid Waste Generation		
	Pounds Per Day <sup>1</sup>	Pounds Per Year <sup>2</sup>	Tons Per Year
Residential Solid Waste:	16,130	5,887,596	2,944

Land Use	Annual Solid Waste Generated (tpy) <sup>3</sup>
Single Family	1,471.90
Condo/Townhouse	1,471.90
<b>Total</b>	<b>2,944</b>

<sup>1</sup> See Impact 5.19-4 of Chapter 5.19, Utilities and Service Systems, of the DEIR for further details.

<sup>2</sup> Based on 365 days per year.

<sup>3</sup> For purposes of this analysis, solid waste generation is proportioned equally among the residential land uses.

**Electricity (Buildings)**

Buildings constructed after January 1, 2020 are required to meet the 2019 Building Energy Efficiency Standards.

**Fuel Switching (Mitigation Measure GHG-1)<sup>1</sup>**

Residential Energy Use Categories	Percent of Annual Energy - Gas			
	Single Family	Townhomes	Low-Rise Apartments (2-4 Unit buildings)	Mid-Rise Apartments (5+ Units buildings)
Water Heaters	47%	68%	65%	75%
Space Heaters	44%	21%	24%	13%
Cooking (Oven + Cooktop)	9%	11%	11%	12%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

	Energy Use Index (Kwh/DU/yr)			
	Single Family	Townhomes	Low-Rise	
			Apartments (2-4 Unit buildings)	Mid-Rise Apartments (5+ Units buildings)
Water Heaters	3,169	2,190	1,301	1,543
Conventional Heat	1,171	501	552	570
Cooking (Oven + Cooktop)	310	234	218	165
Water Heater (Electric Backup)	1,877	2,075		
Heat Pump	994	320	324	522
Total (Water Heater, Conventional Heat, Cooking) <sup>2,3</sup>	4,650	2,925	2,071	2,278

Notes

<sup>1</sup> Sacramento Metropolitan Air Quality Management District. 2020, June 1. Greenhouse Gas Thresholds for Sacramento County.

<sup>2</sup> For residential projects that comply with BMP 1, the electricity use rates should be increased by this total per DU. For projects that do not comply with BMP 1 and instead commit to one or two of the appliance groups to be electric, the electricity use can be increased by just the rate shown for the relevant appliance groups and the natural gas use can be reduced by the percent of natural gas from the appliance groups shown above. Heat pumps are more efficient than conventional electric heating, so projects that plan to use heat pumps can use the heat pump values instead of the conventional heat values.

<sup>3</sup> Space heating and water heating are included in the Title 24 electricity and Title 24 natural gas energy usage categories of CalEEMod, while cooking and appliances are included in the non-title 24 electricity and natural gas energy usage categories.

**Additional Electricity Demand from Fuel Switching**

Land Use	Number of Dwelling Units	Kwh/DU/Yr	T24E	NT24E	Additional Kwh/yr
Condo/Townhouse	650.0	2,925	2,691	234	1,901,250
Single Family	450.0	4,650	4,340	310	2,092,500

**CalEEMod Defaults**

EnergyUseLandUseSubType	T24E	NT24E	LightingElect	T24NG	NT24NG
	Kwh/DU			kBTU/DU	
Condo/Townhouse	36.21	3,795.01	1,001.10	10,989.44	5,516.00
Single-Family	53.28	6,155.97	1,608.84	18,381.75	5,516.00
Parking Lot	0	0	0.35	0	0

**Changes to the Defaults**

EnergyUseLandUseSubType	T24E	NT24E	LightingElect	T24NG	NT24NG
	Kwh/DU			kBTU/DU	
Condo/Townhouse	2,727.21	4,029.01	1,001.10	0	0
Single-Family	4,393.28	6,465.97	1,608.84	0	0
Parking Lot			0.35		

**Architectural Coating**

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier*	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Single Family	810,000	2.7	2,187,000	1,640,250	546,750
Condo/Townhouse	650,000	2.7	1,755,000	1,316,250	438,750
			<b>Residential Sub-Total</b>	<b>2,956,500</b>	<b>985,500</b>
Parking Lot	64,800	6%	3,888	0	3,888

\*Based on CalEEMod methodology in calculating the paintable surface areas for a residential building and surface parking lot.

**Hearths**

	Dwelling Units with Gas Fireplace	Dwelling Units W/O Fireplace
Single Family	450	0
Condominium/Townhome	650	0

\* Assumed no fireplaces for multi-family dwellings based on SCAQMD Rule 445, Wood-Burning Devices.

**Carbon Intensity Factors**

**Southern California Edison Carbon Intensity Factors**

SCE CO <sub>2</sub> e Intensity Factor <sup>1</sup>	512	pounds per megawatt hour	
	2020 <sup>1</sup>	2027 <sup>2</sup>	<b>Adjusted Carbon Intensity (lbs of CO<sub>2</sub>e/MWh)</b>
Assumed Percent Renewable	34.2%	52%	<b>373.495441</b>
CO <sub>2</sub> e MTons/Mwh without Renewable	778.1155015		
	CO <sub>2</sub> : <sup>1,3</sup>	371.4784407	pounds per megawatt hour
	CH <sub>4</sub> : <sup>4</sup>	0.033	pound per megawatt hour
	N <sub>2</sub> O: <sup>4</sup>	0.004	pound per megawatt hour

<sup>1</sup> Based on CO<sub>2</sub>e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2020. 2020 Sustainability Report. <https://www.edison.com/content/dam/eix/documents/sustainability/eix-2020-sustainability-report.pdf>

<sup>2</sup> For purposes of the analysis, as the project could be built out between years 2030 through 2035, it is anticipated that SCE would meet the 2027 RPS target of 52 percent renewables as established under Senate Bill 100.

<sup>3</sup> Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH<sub>4</sub> and N<sub>2</sub>O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

<sup>4</sup> CalEEMod default values.

**General Conversion Factors**

lbs to kg	0.4536
kg to MTons	0.001
Mmbtu to Therm	0.1
Therms to kwh	29.30711111
kilowatt hrs to megawatt hrs	0.001
lbs to Tons	2000
Tons to MTon	0.9071847

Source: California Air Resources Board (CARB). 2010. Local Government Operations Protocol. Version 1.1. Appendix F, Standard Conversion Factors

**Global Warming Potentials (GWP)**

CO <sub>2</sub>	1
CH <sub>4</sub>	25
N <sub>2</sub> O	298

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH<sub>4</sub> and N<sub>2</sub>O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

**Changes to the CalEEMod Defaults - Year 2035**

Total ADTs: 9,351

Commercial Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397	100%
Trips	5,166	601	1,691	1,119	227	68	142	44	6	3	246	6	32	9,351
Percent	98%						2%	0%						100%
Proportion Assumed Mix	0.566629	0.065952	0.185454	0.122700	0.024905	0.007415	0.747855	1.000000	0.033577	0.017306	0.026945	0.033774	0.167488	100.00%
	99.50%						0.50%	0.00%						
adjusted with Assumed	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837	100%
Trips	5,272	614	1,726	1,142	232	69	35	0	2	1	251	2	8	9,351
	56%	7%	18%	12%	2%	1%	0%	0%	0%	0%	3%	0%	0%	100%
<b>Modified</b>	<b>0.563796</b>	<b>0.065622</b>	<b>0.184527</b>	<b>0.122087</b>	<b>0.024780</b>	<b>0.007378</b>	<b>0.003739</b>	<b>0.000000</b>	<b>0.000168</b>	<b>0.000087</b>	<b>0.026810</b>	<b>0.000169</b>	<b>0.000837</b>	<b>100.0%</b>
Final Check Trips	5,272	614	1,726	1,142	232	69	35	0	2	1	251	2	8	9,351

### Construction Activities and Schedule Assumptions\*

\* Based on information provided.

Construction Activities	Construction Schedule			
	Start Date	End Date	Duration (Calendar Days)	Duration (Work Days)
<b>Western Remediation Area</b>				
Site Preparation	8/1/2023	8/8/2023	7	6
Rough Grading	8/9/2023	8/31/2023	22	17
<b>Phase 1</b>				
Site Preparation	8/1/2023	10/3/2023	63	46
Rough Grading	10/4/2023	2/7/2024	126	91
Utility Trenching	11/20/2023	3/9/2024	110	80
Fine Grading	1/6/2024	5/12/2024	127	90
Asphalt Paving	3/10/2024	7/16/2024	128	92
Finishing/Landscaping	4/12/2024	8/17/2024	127	91
Building Construction	5/13/2024	5/31/2025	383	275
Architectural Coating	1/25/2025	5/31/2025	126	90
<b>Eastern Remediation Area</b>				
Site Preparation	10/1/2024	10/8/2024	7	6
Rough Grading	10/9/2024	10/31/2024	22	17
<b>Phase 2</b>				
Site Preparation	10/1/2024	1/6/2025	97	70
Rough Grading	1/7/2025	7/20/2025	194	139
Utility Trenching	3/21/2025	9/7/2025	170	121
Fine Grading	6/2/2025	12/15/2025	196	141
Asphalt Paving	9/9/2025	3/26/2026	198	143
Finishing/Landscaping	10/29/2025	5/13/2026	196	141
Building Construction	12/17/2025	7/31/2027	591	423
Architectural Coating	1/14/2027	7/31/2027	198	142
<b>Phase 3</b>				
Site Preparation	8/1/2026	10/6/2026	66	47
Rough Grading	10/7/2026	8/31/2027	328	235
Utility Trenching	3/20/2027	11/5/2027	230	165
Fine Grading	6/27/2027	3/18/2028	265	190
Asphalt Paving	9/3/2027	3/18/2028	197	141
Finishing/Landscaping	11/8/2027	5/25/2028	199	144
Building Construction	3/21/2028	5/31/2030	801	574
Architectural Coating	11/15/2029	5/31/2030	197	142

**Construction CalEEMod Inputs: Western Remediation Area**

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Parking	Other NonAsphalt Surfaces	94.90	acre	94.90	0
				<b>94.90</b>	<b>0.00</b>
Project Location:	Orange County SC				
Climate Zone:	8				
Operation Year	2026				
Land Use Setting	Urban				
Utility Company	SCE				
Source Receptor Area:	16 - North Orange County				

**Land Uses/Development**

**Buildings**

	Phase 1	Phase 2	Phase 3	Total	
Plan Area Acreage	68.80	94.90	98.40	262.1	acres
Single Family (DU)	210	105	135	450	dwelling units (DU)
Size (BSF) <sup>1</sup>	378,000	189,000	243,000	810,000	building square feet (BSF)
Acres	35.4	25.2	74.5	135.1	
Townhomes (DU)	143	507	0	650	DU
Size (BSF) <sup>2</sup>	143,000	507,000	0	650,000	BSF
Acres	13.9	49.0	0.0	62.9	
Parks/Recreation	2.1	13	0	15.1	acres
Open Space/Slopes (AC)	16.6	6.5	23.9	47.0	acres
Recreational/Commercial (AC)				0.0	acres
Master Plan Roadways (AC)	0.8	1.2	0.0	2.0	acres
Number of Surface Lot Parking Spaces	28	134		162	parking spaces
Surface Parking Lot Area (SF) <sup>3</sup>	11,200	53,600		64,800	SF
	0.257	1.230		1.488	acres

<sup>1</sup> Total land use square feet based on CalEEMod default assumption of 1,800 sf/dwelling unit.

<sup>2</sup> Total land use square feet based on CalEEMod default assumption of 1,000 sf/dwelling unit.

<sup>3</sup> Total parking lot square feet based on CalEEMod default assumption of 400 sf/parking space.

**Soil Haul**

	Export (CY) <sup>1</sup>	Haul Truck Capacity (CY)	Total Haul Trips	Haul Trip Duration (Workday)	Daily Haul Trips	Haul Trip Distance <sup>2</sup> (mi/trip)
Site Preparation	0	16	0	6	0	75
Rough Grading	18,157	16	2,270	17	138	75

<sup>1</sup> Based on 20 percent of the anticipated 90,384 cubic yards of impacted soil.

<sup>2</sup> Based on transferring soil to a thermal treatment facility at 12328 Hibiscus Road in the City of Adelanto.

## Construction Equipment Mix: Western Remediation Area\*

Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/ Day	Vendor Trips
<b>Site Preparation</b>					<b>Default</b>	<b>16</b>
Rubber Tired Dozers	3	8	247	0.40		
Tractors/Loaders/Backhoes	4	8	97	0.37		
Water truck**	4					16
<b>Rough Grading</b>					<b>Default</b>	<b>32</b>
Excavators	2	8	158	0.38		
Graders	1	8	157	0.41		
Rubber Tired Dozers	1	8	247	0.40		
Scrapers	2	8	367	0.48		
Tractors/Loaders/Backhoes	2	8	97	0.37		
Water truck**	8					32

\*Information provided by Applicant.

\*\*Based on 10,000 gallons per acres disturbed and a 4,000 gallon water truck. 2005, June 5. Maricopa Air Quality Department.

**Construction CalEEMod Inputs: Eastern Remediation Area**

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Parking	Other NonAsphalt Surfaces	167.20	acre	167.20	0
				<b>167.20</b>	<b>0.00</b>

Project Location: Orange County SC  
 Climate Zone: 8  
 Operation Year: 2026  
 Land Use Setting: Urban  
 Utility Company: SCE  
 Source Receptor Area: 16 - North Orange County

**Land Uses/Development**

**Buildings**

	Phase 1	Phase 2	Phase 3	Total	
Plan Area Acreage	68.80	94.90	98.40	262.1	acres
Single Family (DU)	210	105	135	450	dwelling units (DU)
Size (BSF) <sup>1</sup>	378,000	189,000	243,000	810,000	building square feet (BSF)
Acres	35.4	25.2	74.5	135.1	
Townhomes (DU)	143	507	0	650	DU
Size (BSF) <sup>2</sup>	143,000	507,000	0	650,000	BSF
Acres	13.9	49.0	0.0	62.9	
Parks/Recreation	2.1	13	0	15.1	acres
Open Space/Slopes (AC)	16.6	6.5	23.9	47.0	acres
Recreational/Commercial (AC)				0.0	acres
Master Plan Roadways (AC)	0.8	1.2	0.0	2.0	acres
Number of Surface Lot Parking Spaces	28	134		162	parking spaces
Surface Parking Lot Area (SF) <sup>3</sup>	11,200	53,600		64,800	SF
	0.257	1.230		1.488	acres

<sup>1</sup> Total land use square feet based on CalEEMod default assumption of 1,800 sf/dwelling unit.  
<sup>2</sup> Total land use square feet based on CalEEMod default assumption of 1,000 sf/dwelling unit.  
<sup>3</sup> Total parking lot square feet based on CalEEMod default assumption of 400 sf/parking space.

**Soil Haul**

	Export (CY) <sup>1</sup>	Haul Truck Capacity (CY)	Total Haul Trips	Haul Trip Duration (Workday)	Daily Haul Trips	Haul Trip Distance <sup>2</sup> (mi/trip)
Site Preparation	0	16	0	6	0	75
Rough Grading	17,498	16	2,187	17	132	75

<sup>1</sup> Based on 20 percent of the anticipated 87,491 cubic yards of impacted soil.  
<sup>2</sup> Based on transferring soil to a thermal treatment facility at 12328 Hibiscus Road in the City of Adelanto.



## Construction Equipment Mix: Eastern Remediation Area\*

Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/ Day	Vendor Trips
<b>Site Preparation</b>					<b>Default</b>	<b>16</b>
Rubber Tired Dozers	3	8	247	0.40		
Tractors/Loaders/Backhoes	4	8	97	0.37		
Water truck**	4					16
<b>Rough Grading</b>					<b>Default</b>	<b>32</b>
Excavators	2	8	158	0.38		
Graders	1	8	187	0.41		
Rubber Tired Dozers	1	8	247	0.40		
Scrapers	2	8	367	0.48		
Tractors/Loaders/Backhoes	2	8	97	0.37		
Water truck**	8					32

\*Information provided by Applicant.

\*\*Based on 10,000 gallons per acres disturbed and a 4,000 gallon water truck. 2005, June 5. Maricopa Air Quality Department.

**Construction CalEEMod Inputs: Phase 1**

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Single Family <sup>1</sup>	210	DU	35.40	378,000
Residential	Condo/Townhouse <sup>2</sup>	143	DU	13.90	143,000
Recreational	City Park	2.10	acre	2.10	91,476
Parking	Parking Lot	0.26	acre	0.26	11,200
Parking	Other Asphalt Surfaces	0.8	acre	0.80	34,848
Parking	Other NonAsphalt Surfaces	16.34	acre	16.34	0
				<b>68.80</b>	<b>658,524.00</b>

<sup>1</sup> Total land use square feet based on CalEEMod default assumption of 1,800 sf/dwelling unit.

<sup>2</sup> Total land use square feet based on CalEEMod default assumption of 1,000 sf/dwelling unit.

Project Location: Orange County SC  
 Climate Zone: 8  
 Operation Year: 2026  
 Land Use Setting: Urban  
 Utility Company: SCE  
 Source Receptor Area: 16 - North Orange County

**Land Uses/Development**

**Buildings**

	Phase 1	Phase 2	Phase 3	Total	
Plan Area Acreage	68.80	94.90	98.40	262.1	acres
Single Family (DU)	210	105	135	450	dwelling units (DU)
Size (BSF) <sup>1</sup>	378,000	189,000	243,000	810,000	building square feet (BSF)
Acres	35.4	25.2	74.5	135.1	
Townhomes (DU)	143	507	0	650	DU
Size (BSF) <sup>2</sup>	143,000	507,000	0	650,000	BSF
Acres	13.9	49.0	0.0	62.9	
Parks/Recreation	2.1	13	0	15.1	acres
Open Space/Slopes (AC)	16.60	6.5	23.9	47.0	acres
Master Plan Roadways (AC)	0.80	1.2	0.0	2.0	acres
Number of Surface Lot Parking Spaces	28	134		162	parking spaces
Surface Parking Lot Area (SF) <sup>3</sup>	11,200	53,600		64,800	SF
	0.257	1.230		1.488	acres

<sup>1</sup> Total land use square feet based on CalEEMod default assumption of 1,800 sf/dwelling unit.

<sup>2</sup> Total land use square feet based on CalEEMod default assumption of 1,000 sf/dwelling unit.

<sup>3</sup> Total parking lot square feet based on CalEEMod default assumption of 400 sf/parking space.

**Architectural Coating**

Land Use	Land Use Amount (BSF)	CalEEMod Paintable		Total Paintable	
		Surface Area Multiplier*	Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Single Family	378,000	2.7	1,020,600	765,450	255,150
Condo/Townhome	143,000	2.7	386,100	289,575	96,525
			<b>Residential Sub-Total</b>	<b>1,055,025</b>	<b>351,675</b>
Parking Lot	11,200	6%	672	0	672

\*Based on CalEEMod methodology in calculating the paintable surface areas for a residential building and surface parking lot.

### Construction Equipment Mix: Phase 1\*

Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/Day	Vendor Trips/Day
<b>Site Preparation</b>					Default	8
Rubber Tired Dozers	3	8	247	0.40		
Tractors/Loaders/Backhoes	4	8	97	0.37		
Water truck**	4					8
<b>Rough Grading</b>					Default	16
Excavators	2	8	158	0.38		
Graders	1	8	157	0.41		
Rubber Tired Dozers	1	8	247	0.40		
Scrapers	2	8	367	0.48		
Tractors/Loaders/Backhoes	2	8	97	0.37		
Water truck**	8					16
<b>Utility Trenching***</b>					Default	Default
Excavators	2	8	158	0.38		
Trenchers	1	8	78	0.50		
<b>Fine Grading</b>					Default	16
Excavators	2	8	158	0.38		
Graders	1	8	157	0.41		
Rubber Tired Dozers	1	8	247	0.40		
Scrapers	2	8	367	0.48		
Tractors/Loaders/Backhoes	2	8	97	0.37		
Water truck**	8					16
<b>Asphalt Paving</b>					Default	Default
Pavers	2	8	130	0.42		
Paving Equipment	2	8	132	0.36		
Rollers	2	8	80	0.38		
<b>Finishing/Landscaping***</b>					Default	Default
Tractors/Loaders/Backhoes	1	8	97	0.37		
<b>Building Construction</b>					Default	Default
Cranes	1	7	231	0.29		
Forklifts	3	8	89	0.20		
Generator Sets	1	8	84	0.74		
Tractors/Loaders/Backhoes	3	7	97	0.37		
Welders	1	8	46	0.45		
<b>Architectural Coating</b>					Default	Default
Air Compressors	1	6	78	0.48		

\*CalEEMod default unless otherwise noted.

\*\*Based on 10,000 gallons per acre disturbed and a 4,000 gallon water truck. 2005, June 5. Maricopa Air Quality Department. Guidance for Application for Dust Control Permit. [https://www.epa.gov/sites/default/files/2019-04/documents/mr\\_guidanceforapplicationfordustcontrolpermit.pdf](https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf)

\*\*\*Assumed.

**Construction Activities and Schedule Assumptions: Phase 1\***

\* Based on information provided.

Construction Activities	Construction Schedule			
	Start Date	End Date	Duration (Calendar Days)	Duration (Work Days)
<b>Phase 1</b>				
Site Preparation	8/1/2023	10/3/2023	63	46
Rough Grading	10/4/2023	2/7/2024	126	91
Utility Trenching	11/20/2023	3/9/2024	110	80
Fine Grading	1/6/2024	5/12/2024	127	90
Asphalt Paving	3/10/2024	7/16/2024	128	92
Finishing/Landscaping	4/12/2024	8/17/2024	127	91
Building Construction	5/13/2024	5/31/2025	383	275
Architectural Coating	1/25/2025	5/31/2025	126	90

**Construction CalEEMod Inputs: Phase 2**

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Single Family <sup>1</sup>	105	DU	25.20	189,000
Residential	Condo/Townhouse <sup>2</sup>	507	DU	49.00	507,000
Recreational	City Park	13.00	acre	13.00	566,280
Parking	Parking Lot	53.60	1000SF	1.23	53,600
Parking	Other Asphalt Surfaces	1.2	acre	1.20	52,272
Parking	Other NonAsphalt Surfaces	5.27	acre	5.27	0
				<b>94.90</b>	<b>1,368,152.00</b>

<sup>1</sup> Total land use square feet based on CalEEMod default assumption of 1,800 sf/dwelling unit.

<sup>2</sup> Total land use square feet based on CalEEMod default assumption of 1,000 sf/dwelling unit.

Project Location: Orange County SC  
 Climate Zone: 8  
 Operation Year: 2026  
 Land Use Setting: Urban  
 Utility Company: SCE  
 Source Receptor Area: 16 - North Orange County

**Land Uses/Development**

**Buildings**

	Phase 1	Phase 2	Phase 3	Total	
Plan Area Acreage	68.80	94.90	98.40	262.1	acres
Single Family (DU)	210	105	135	450	dwelling units (DU)
Size (BSF) <sup>1</sup>	378,000	189,000	243,000	810,000	building square feet (BSF)
Acres	35.4	25.2	74.5	135.1	
Townhomes (DU)	143	507	0	650	DU
Size (BSF) <sup>2</sup>	143,000	507,000	0	650,000	BSF
Acres	13.9	49.0	0.0	62.9	
Parks/Recreation	2.1	13	0	15.1	acres
Open Space/Slopes (AC)	16.6	6.5	23.9	47.0	acres
Right of Way	0.8	1.2	0.0	2.0	acres
Number of Surface Lot Parking Spaces	28	134		162	parking spaces
Surface Parking Lot Area (SF) <sup>3</sup>	11,200	53,600		64,800	SF
	0.257	1.230		1.488	acres

<sup>1</sup> Total land use square feet based on CalEEMod default assumption of 1,800 sf/dwelling unit.

<sup>2</sup> Total land use square feet based on CalEEMod default assumption of 1,000 sf/dwelling unit.

<sup>3</sup> Total parking lot square feet based on CalEEMod default assumption of 400 sf/parking space.

**Architectural Coating**

Land Use	Land Use Amount (BSF)	CalEEMod Paintable		Total Paintable	
		Surface Area Multiplier*	Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Single Family	189,000	2.7	510,300	382,725	127,575
Condo/Townhouse	507,000	2.7	1,368,900	1,026,675	342,225
			<b>Residential Sub-Total</b>	<b>1,409,400</b>	<b>469,800</b>
Parking Lot	53,600	6%	3,216	0	3,216

\*Based on CalEEMod methodology in calculating the paintable surface areas for a residential building and surface parking lot.

## Construction Equipment Mix: Phase 2\*

Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/ Day	Vendor Trips/Day
<b>Site Preparation</b>					Default	Default+4
Rubber Tired Dozers	3	8	247	0.40		
Tractors/Loaders/Backhoes	4	8	97	0.37		
Water truck**	4					8
<b>Rough Grading</b>					Default	Default+4
Excavators	2	8	158	0.38		
Graders	1	8	157	0.41		
Rubber Tired Dozers	1	8	247	0.40		
Scrapers	2	8	367	0.48		
Tractors/Loaders/Backhoes	2	8	97	0.37		
Water truck**	8					16
<b>Utility Trenching***</b>					Default	Default
Excavators	2	8	158	0.38		
Trenchers	1	8	78	0.50		
<b>Fine Grading</b>					Default	Default+4
Excavators	2	8	158	0.38		
Graders	1	8	157	0.41		
Rubber Tired Dozers	1	8	247	0.40		
Scrapers	2	8	367	0.48		
Tractors/Loaders/Backhoes	2	8	97	0.37		
Water truck**	8					16
<b>Asphalt Paving</b>					Default	Default
Pavers	2	8	130	0.42		
Paving Equipment	2	8	132	0.36		
Rollers	2	8	80	0.38		
<b>Finishing/Landscaping***</b>					Default	Default
Tractors/Loaders/Backhoes	1	8	97	0.37		
<b>Building Construction</b>					Default	Default
Cranes	1	7	231	0.29		
Forklifts	3	8	89	0.20		
Generator Sets	1	8	84	0.74		
Tractors/Loaders/Backhoes	3	7	97	0.37		
Welders	1	8	46	0.45		
<b>Architectural Coating</b>					Default	Default
Air Compressors	1	6	78	0.48		

\*CalEEMod default unless otherwise noted.

\*\*Based on 10,000 gallons per acres disturbed and a 4,000 gallon water truck. 2005, June 5. Maricopa Air Quality Department.

\*\*\*Assumed.

**Construction Activities and Schedule Assumptions\***

\* Based on information provided.

Construction Activities	Construction Schedule			
	Start Date	End Date	Duration (Calendar Days)	Duration (Work Days)
<b>Phase 2</b>				
Site Preparation	10/1/2024	1/6/2025	97	70
Rough Grading	1/7/2025	7/20/2025	194	139
Utility Trenching	3/21/2025	9/7/2025	170	121
Fine Grading	6/2/2025	12/15/2025	196	141
Asphalt Paving	9/9/2025	3/26/2026	198	143
Finishing/Landscaping	10/29/2025	5/13/2026	196	141
Building Construction	12/17/2025	7/31/2027	591	423
Architectural Coating	1/14/2027	7/31/2027	198	142

**Construction CalEEMod Inputs: Phase 3**

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Single Family <sup>1</sup>	135	DU	74.50	243,000
Parking	Other NonAsphalt Surfaces	23.90	acre	23.90	0
				<b>98.40</b>	<b>243,000.00</b>

<sup>1</sup> Total land use square feet based on CalEEMod default assumption of 1,800 sf/dwelling unit.

Project Location: Orange County SC  
 Climate Zone: 8  
 Operation Year: 2026  
 Land Use Setting: Urban  
 Utility Company: SCE  
 Source Receptor Area: 16 - North Orange County

**Land Uses/Development**

**Buildings**

	Phase 1	Phase 2	Phase 3	Total	
Plan Area Acreage	68.80	94.90	98.40	262.1	acres
Single Family (DU)	210	105	135	450	dwelling units (DU)
Size (BSF) <sup>1</sup>	378,000	189,000	243,000	810,000	building square feet (BSF)
Acres	35.4	25.2	74.5	135.1	
Townhomes (DU)	143	507	0	650	DU
Size (BSF) <sup>2</sup>	143,000	507,000	0	650,000	BSF
Acres	13.9	49.0	0.0	62.9	
Parks/Recreation	2.1	13	0	15.1	acres
Open Space/Slopes (AC)	16.6	6.5	23.9	47.0	acres
Right of Way	0.8	1.2	0.0	2.0	acres
Number of Surface Lot Parking Spaces	28	134		162	parking spaces
Surface Parking Lot Area (SF) <sup>3</sup>	11,200	53,600		64,800	SF
	0.257	1.230		1.488	acres

<sup>1</sup> Total land use square feet based on CalEEMod default assumption of 1,800 sf/dwelling unit.

<sup>2</sup> Total land use square feet based on CalEEMod default assumption of 1,000 sf/dwelling unit.

<sup>3</sup> Total parking lot square feet based on CalEEMod default assumption of 400 sf/parking space.

**Architectural Coating**

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier*	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Single Family	243,000	2.7	656,100	492,075	164,025
			<b>Residential Sub-Total</b>	<b>492,075</b>	<b>164,025</b>

\*Based on CalEEMod methodology in calculating the paintable surface areas for a residential building.



### Construction Equipment Mix: Phase 3\*

Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/ Day	Vendor Trips/Day
<b>Site Preparation</b>					Default	8
Rubber Tired Dozers	3	8	247	0.40		
Tractors/Loaders/Backhoes	4	8	97	0.37		
Water truck**	4					8
<b>Rough Grading</b>					Default	16
Excavators	2	8	158	0.38		
Graders	1	8	157	0.41		
Rubber Tired Dozers	1	8	247	0.40		
Scrapers	2	8	367	0.48		
Tractors/Loaders/Backhoes	2	8	97	0.37		
Water truck**	8					16
<b>Utility Trenching***</b>					Default	Default
Excavators	2	8	158	0.38		
Trenchers	1	8	78	0.50		
<b>Fine Grading</b>					Default	16
Excavators	2	8	158	0.38		
Graders	1	8	157	0.41		
Rubber Tired Dozers	1	8	247	0.40		
Scrapers	2	8	367	0.48		
Tractors/Loaders/Backhoes	2	8	97	0.37		
Water truck**	8					16
<b>Asphalt Paving</b>					Default	Default
Pavers	2	8	130	0.42		
Paving Equipment	2	8	132	0.36		
Rollers	2	8	80	0.38		
<b>Finishing/Landscaping***</b>					Default	Default
Tractors/Loaders/Backhoes	1	8	97	0.37		
<b>Building Construction</b>					Default	Default
Cranes	1	7	231	0.29		
Forklifts	3	8	89	0.20		
Generator Sets	1	8	84	0.74		
Tractors/Loaders/Backhoes	3	7	97	0.37		
Welders	1	8	46	0.45		
<b>Architectural Coating</b>					Default	Default
Air Compressors	1	6	78	0.48		

\*CalEEMod default unless otherwise noted.

\*\*Based on 10,000 gallons per acres disturbed and a 4,000 gallon water truck. 2005, June 5. Maricopa Air Quality Department.

\*\*\*Assumed.

**Construction Activities and Schedule Assumptions: Phase 3\***

\* Based on information provided.

Construction Activities	Construction Schedule			
	Start Date	End Date	Duration (Calendar Days)	Duration (Work Days)
<b>Phase 3</b>				
Site Preparation	8/1/2026	10/6/2026	66	47
Rough Grading	10/7/2026	8/31/2027	328	235
Utility Trenching	3/20/2027	11/5/2027	230	165
Fine Grading	6/27/2027	3/18/2028	265	190
Asphalt Paving	9/3/2027	3/18/2028	197	141
Finishing/Landscaping	11/8/2027	5/25/2028	199	144
Building Construction	3/21/2028	5/31/2030	801	574
Architectural Coating	11/15/2029	5/31/2030	197	142

### 3. CalEEMod Output: Phase 1 Construction

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Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 1 Construction  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	143.00	Dwelling Unit	13.90	143,000.00	409
Single Family Housing	210.00	Dwelling Unit	35.40	378,000.00	601
City Park	2.10	Acre	2.10	91,476.00	0
Parking Lot	11.20	1000sqft	0.26	11,200.00	0
Other Asphalt Surfaces	34.85	1000sqft	0.80	34,848.00	0
Other Non-Asphalt Surfaces	16.34	Acre	16.34	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.
- Construction Phase - Based information provided.
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.

Phase 1 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	90.00
tblConstructionPhase	NumDays	1,110.00	275.00
tblConstructionPhase	NumDays	110.00	91.00
tblConstructionPhase	NumDays	75.00	92.00
tblConstructionPhase	NumDays	40.00	46.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	PhaseEndDate	4/2/2029	5/30/2025
tblConstructionPhase	PhaseEndDate	9/4/2028	5/30/2025
tblConstructionPhase	PhaseEndDate	6/3/2024	2/7/2024
tblConstructionPhase	PhaseEndDate	12/18/2028	7/16/2024
tblConstructionPhase	PhaseEndDate	1/1/2024	10/3/2023
tblConstructionPhase	PhaseStartDate	12/19/2028	1/25/2025
tblConstructionPhase	PhaseStartDate	6/4/2024	5/13/2024
tblConstructionPhase	PhaseStartDate	1/2/2024	10/4/2023
tblConstructionPhase	PhaseStartDate	9/5/2028	3/10/2024
tblConstructionPhase	PhaseStartDate	11/7/2023	8/1/2023
tblLandUse	LandUseSquareFeet	711,770.40	0.00
tblLandUse	LotAcreage	8.94	13.90
tblLandUse	LotAcreage	68.18	35.40
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.0022	40.3216	35.8386	0.0775	19.9094	1.7496	21.1779	10.1705	1.6098	11.3376	0.0000	7,554.7773	7,554.7773	2.2784	0.0511	7,626.9649
2024	7.1634	70.8874	63.9839	0.1441	19.1483	2.9859	22.1342	7.5087	2.7473	10.2559	0.0000	14,050.9902	14,050.9902	4.2440	0.2170	14,186.5566
2025	38.6699	16.1169	26.3535	0.0653	3.5469	0.6052	4.1521	0.9493	0.5722	1.5215	0.0000	6,583.3201	6,583.3201	0.7372	0.2169	6,666.3852
Maximum	38.6699	70.8874	63.9839	0.1441	19.9094	2.9859	22.1342	10.1705	2.7473	11.3376	0.0000	14,050.9902	14,050.9902	4.2440	0.2170	14,186.5566

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.0022	40.3216	35.8386	0.0775	8.6367	1.7496	9.9052	4.3822	1.6098	5.5493	0.0000	7,554.7773	7,554.7773	2.2784	0.0511	7,626.9649
2024	7.1634	70.8874	63.9839	0.1441	8.5551	2.9859	11.5410	3.3116	2.7473	6.0589	0.0000	14,050.9902	14,050.9902	4.2440	0.2170	14,186.5566
2025	38.6699	16.1169	26.3535	0.0653	3.2748	0.6052	3.8799	0.8825	0.5722	1.4547	0.0000	6,583.3201	6,583.3201	0.7372	0.2169	6,666.3852
Maximum	38.6699	70.8874	63.9839	0.1441	8.6367	2.9859	11.5410	4.3822	2.7473	6.0589	0.0000	14,050.9902	14,050.9902	4.2440	0.2170	14,186.5566

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	51.96	0.00	46.64	53.96	0.00	43.49	0.00	0.00	0.00	0.00	0.00	0.00

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	10/3/2023	5	46	
2	Rough Grading	Grading	10/4/2023	2/7/2024	5	91	
3	Utility Trenching	Trenching	11/20/2023	3/9/2024	5	80	
4	Fine Grading	Grading	1/6/2024	5/12/2024	5	90	
5	Paving	Paving	3/10/2024	7/16/2024	5	92	
6	Finishing/Landscaping	Trenching	4/12/2024	8/16/2024	5	91	
7	Building Construction	Building Construction	5/13/2024	5/30/2025	5	275	
8	Architectural Coating	Architectural Coating	1/25/2025	5/30/2025	5	90	

Acres of Grading (Site Preparation Phase): 69

Acres of Grading (Grading Phase): 273

Acres of Paving: 17.4

Residential Indoor: 1,055,025; Residential Outdoor: 351,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,763

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fine Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Fine Grading	Graders	1	8.00	187	0.41
Rough Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Rough Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38



Phase 1 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	5.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	47.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	236.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0800e-003	0.2804	0.1162	1.4400e-003	0.0512	1.4400e-003	0.0526	0.0147	1.3800e-003	0.0161		157.9595	157.9595	9.3900e-003	0.0227	164.9485
Worker	0.0507	0.0325	0.5512	1.7000e-003	0.2012	1.0300e-003	0.2022	0.0534	9.5000e-004	0.0543		173.7559	173.7559	3.7700e-003	3.7100e-003	174.9549
<b>Total</b>	<b>0.0588</b>	<b>0.3128</b>	<b>0.6674</b>	<b>3.1400e-003</b>	<b>0.2524</b>	<b>2.4700e-003</b>	<b>0.2548</b>	<b>0.0681</b>	<b>2.3300e-003</b>	<b>0.0704</b>		<b>331.7154</b>	<b>331.7154</b>	<b>0.0132</b>	<b>0.0264</b>	<b>339.9035</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.2660</b>	<b>9.6694</b>	<b>4.3188</b>	<b>1.1647</b>	<b>5.4835</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

Phase 1 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0800e-003	0.2804	0.1162	1.4400e-003	0.0479	1.4400e-003	0.0493	0.0139	1.3800e-003	0.0153		157.9595	157.9595	9.3900e-003	0.0227	164.9485
Worker	0.0507	0.0325	0.5512	1.7000e-003	0.1855	1.0300e-003	0.1865	0.0495	9.5000e-004	0.0504		173.7559	173.7559	3.7700e-003	3.7100e-003	174.9549
<b>Total</b>	<b>0.0588</b>	<b>0.3128</b>	<b>0.6674</b>	<b>3.1400e-003</b>	<b>0.2333</b>	<b>2.4700e-003</b>	<b>0.2358</b>	<b>0.0634</b>	<b>2.3300e-003</b>	<b>0.0657</b>		<b>331.7154</b>	<b>331.7154</b>	<b>0.0132</b>	<b>0.0264</b>	<b>339.9035</b>

**3.3 Rough Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.4245</b>	<b>10.6281</b>	<b>3.6538</b>	<b>1.3105</b>	<b>4.9643</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0162	0.5607	0.2325	2.8800e-003	0.1023	2.8800e-003	0.1052	0.0294	2.7500e-003	0.0322		315.9190	315.9190	0.0188	0.0453	329.8970
Worker	0.0564	0.0361	0.6124	1.8900e-003	0.2236	1.1400e-003	0.2247	0.0593	1.0500e-003	0.0603		193.0621	193.0621	4.1900e-003	4.1200e-003	194.3944
<b>Total</b>	<b>0.0725</b>	<b>0.5968</b>	<b>0.8449</b>	<b>4.7700e-003</b>	<b>0.3259</b>	<b>4.0200e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8000e-003</b>	<b>0.0925</b>		<b>508.9811</b>	<b>508.9811</b>	<b>0.0230</b>	<b>0.0495</b>	<b>524.2914</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.4245</b>	<b>5.3590</b>	<b>1.5620</b>	<b>1.3105</b>	<b>2.8725</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0162	0.5607	0.2325	2.8800e-003	0.0957	2.8800e-003	0.0986	0.0278	2.7500e-003	0.0306		315.9190	315.9190	0.0188	0.0453	329.8970
Worker	0.0564	0.0361	0.6124	1.8900e-003	0.2061	1.1400e-003	0.2072	0.0550	1.0500e-003	0.0561		193.0621	193.0621	4.1900e-003	4.1200e-003	194.3944
<b>Total</b>	<b>0.0725</b>	<b>0.5968</b>	<b>0.8449</b>	<b>4.7700e-003</b>	<b>0.3018</b>	<b>4.0200e-003</b>	<b>0.3058</b>	<b>0.0828</b>	<b>3.8000e-003</b>	<b>0.0866</b>		<b>508.9811</b>	<b>508.9811</b>	<b>0.0230</b>	<b>0.0495</b>	<b>524.2914</b>

Phase 1 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Rough Grading - 2024**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.1023	3.0100e-003	0.1053	0.0294	2.8800e-003	0.0323		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.6600e-003</b>	<b>0.3259</b>	<b>4.1000e-003</b>	<b>0.3300</b>	<b>0.0887</b>	<b>3.8800e-003</b>	<b>0.0926</b>		<b>499.4358</b>	<b>499.4358</b>	<b>0.0228</b>	<b>0.0487</b>	<b>514.5086</b>

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.3354</b>	<b>5.2699</b>	<b>1.5620</b>	<b>1.2286</b>	<b>2.7906</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.0957	3.0100e-003	0.0988	0.0278	2.8800e-003	0.0307		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.6600e-003</b>	<b>0.3018</b>	<b>4.1000e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8800e-003</b>	<b>0.0867</b>		<b>499.4358</b>	<b>499.4358</b>	<b>0.0228</b>	<b>0.0487</b>	<b>514.5086</b>

**3.4 Utility Trenching - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5854	5.1948	6.6976	9.8800e-003		0.3207	0.3207		0.2950	0.2950		957.0936	957.0936	0.3095		964.8322
<b>Total</b>	<b>0.5854</b>	<b>5.1948</b>	<b>6.6976</b>	<b>9.8800e-003</b>		<b>0.3207</b>	<b>0.3207</b>		<b>0.2950</b>	<b>0.2950</b>		<b>957.0936</b>	<b>957.0936</b>	<b>0.3095</b>		<b>964.8322</b>

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0225	0.0144	0.2450	7.5000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		77.2248	77.2248	1.6800e-003	1.6500e-003	77.7578
<b>Total</b>	<b>0.0225</b>	<b>0.0144</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.0894</b>	<b>4.6000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.2000e-004</b>	<b>0.0241</b>		<b>77.2248</b>	<b>77.2248</b>	<b>1.6800e-003</b>	<b>1.6500e-003</b>	<b>77.7578</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5854	5.1948	6.6976	9.8800e-003		0.3207	0.3207		0.2950	0.2950	0.0000	957.0936	957.0936	0.3095		964.8322
<b>Total</b>	<b>0.5854</b>	<b>5.1948</b>	<b>6.6976</b>	<b>9.8800e-003</b>		<b>0.3207</b>	<b>0.3207</b>		<b>0.2950</b>	<b>0.2950</b>	<b>0.0000</b>	<b>957.0936</b>	<b>957.0936</b>	<b>0.3095</b>		<b>964.8322</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0225	0.0144	0.2450	7.5000e-004	0.0824	4.6000e-004	0.0829	0.0220	4.2000e-004	0.0224		77.2248	77.2248	1.6800e-003	1.6500e-003	77.7578
<b>Total</b>	<b>0.0225</b>	<b>0.0144</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.0824</b>	<b>4.6000e-004</b>	<b>0.0829</b>	<b>0.0220</b>	<b>4.2000e-004</b>	<b>0.0224</b>		<b>77.2248</b>	<b>77.2248</b>	<b>1.6800e-003</b>	<b>1.6500e-003</b>	<b>77.7578</b>

Phase 1 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Utility Trenching - 2024**  
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5681	4.9375	6.7068	9.8900e-003		0.3065	0.3065		0.2820	0.2820		957.2542	957.2542	0.3096		964.9941
<b>Total</b>	<b>0.5681</b>	<b>4.9375</b>	<b>6.7068</b>	<b>9.8900e-003</b>		<b>0.3065</b>	<b>0.3065</b>		<b>0.2820</b>	<b>0.2820</b>		<b>957.2542</b>	<b>957.2542</b>	<b>0.3096</b>		<b>964.9941</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0212	0.0130	0.2283	7.3000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.0000e-004	0.0241		75.3671	75.3671	1.5200e-003	1.5400e-003	75.8643
<b>Total</b>	<b>0.0212</b>	<b>0.0130</b>	<b>0.2283</b>	<b>7.3000e-004</b>	<b>0.0894</b>	<b>4.4000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.0000e-004</b>	<b>0.0241</b>		<b>75.3671</b>	<b>75.3671</b>	<b>1.5200e-003</b>	<b>1.5400e-003</b>	<b>75.8643</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5681	4.9375	6.7068	9.8900e-003		0.3065	0.3065		0.2820	0.2820	0.0000	957.2542	957.2542	0.3096		964.9941
<b>Total</b>	<b>0.5681</b>	<b>4.9375</b>	<b>6.7068</b>	<b>9.8900e-003</b>		<b>0.3065</b>	<b>0.3065</b>		<b>0.2820</b>	<b>0.2820</b>	<b>0.0000</b>	<b>957.2542</b>	<b>957.2542</b>	<b>0.3096</b>		<b>964.9941</b>



Phase 1 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0212	0.0130	0.2283	7.3000e-004	0.0824	4.4000e-004	0.0829	0.0220	4.0000e-004	0.0224		75.3671	75.3671	1.5200e-003	1.5400e-003	75.8643
<b>Total</b>	<b>0.0212</b>	<b>0.0130</b>	<b>0.2283</b>	<b>7.3000e-004</b>	<b>0.0824</b>	<b>4.4000e-004</b>	<b>0.0829</b>	<b>0.0220</b>	<b>4.0000e-004</b>	<b>0.0224</b>		<b>75.3671</b>	<b>75.3671</b>	<b>1.5200e-003</b>	<b>1.5400e-003</b>	<b>75.8643</b>

**3.5 Fine Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.1023	3.0100e-003	0.1053	0.0294	2.8800e-003	0.0323		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.6600e-003</b>	<b>0.3259</b>	<b>4.1000e-003</b>	<b>0.3300</b>	<b>0.0887</b>	<b>3.8800e-003</b>	<b>0.0926</b>		<b>499.4358</b>	<b>499.4358</b>	<b>0.0228</b>	<b>0.0487</b>	<b>514.5086</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.3354</b>	<b>5.2699</b>	<b>1.5620</b>	<b>1.2286</b>	<b>2.7906</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.0957	3.0100e-003	0.0988	0.0278	2.8800e-003	0.0307		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.6600e-003</b>	<b>0.3018</b>	<b>4.1000e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8800e-003</b>	<b>0.0867</b>		<b>499.4358</b>	<b>499.4358</b>	<b>0.0228</b>	<b>0.0487</b>	<b>514.5086</b>

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0184</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0397	0.0243	0.4281	1.3700e-003	0.1677	8.2000e-004	0.1685	0.0445	7.5000e-004	0.0452		141.3132	141.3132	2.8500e-003	2.8900e-003	142.2455
<b>Total</b>	<b>0.0397</b>	<b>0.0243</b>	<b>0.4281</b>	<b>1.3700e-003</b>	<b>0.1677</b>	<b>8.2000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.5000e-004</b>	<b>0.0452</b>		<b>141.3132</b>	<b>141.3132</b>	<b>2.8500e-003</b>	<b>2.8900e-003</b>	<b>142.2455</b>

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0184</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0397	0.0243	0.4281	1.3700e-003	0.1546	8.2000e-004	0.1554	0.0413	7.5000e-004	0.0420		141.3132	141.3132	2.8500e-003	2.8900e-003	142.2455
<b>Total</b>	<b>0.0397</b>	<b>0.0243</b>	<b>0.4281</b>	<b>1.3700e-003</b>	<b>0.1546</b>	<b>8.2000e-004</b>	<b>0.1554</b>	<b>0.0413</b>	<b>7.5000e-004</b>	<b>0.0420</b>		<b>141.3132</b>	<b>141.3132</b>	<b>2.8500e-003</b>	<b>2.8900e-003</b>	<b>142.2455</b>

**3.7 Finishing/Landscaping - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1433	1.4424	2.2265	3.1000e-003		0.0662	0.0662		0.0609	0.0609		300.5434	300.5434	0.0972		302.9734
<b>Total</b>	<b>0.1433</b>	<b>1.4424</b>	<b>2.2265</b>	<b>3.1000e-003</b>		<b>0.0662</b>	<b>0.0662</b>		<b>0.0609</b>	<b>0.0609</b>		<b>300.5434</b>	<b>300.5434</b>	<b>0.0972</b>		<b>302.9734</b>

Phase 1 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9500e-003	4.8600e-003	0.0856	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		28.2626	28.2626	5.7000e-004	5.8000e-004	28.4491
<b>Total</b>	<b>7.9500e-003</b>	<b>4.8600e-003</b>	<b>0.0856</b>	<b>2.7000e-004</b>	<b>0.0335</b>	<b>1.6000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.5000e-004</b>	<b>9.0400e-003</b>		<b>28.2626</b>	<b>28.2626</b>	<b>5.7000e-004</b>	<b>5.8000e-004</b>	<b>28.4491</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1433	1.4424	2.2265	3.1000e-003		0.0662	0.0662		0.0609	0.0609	0.0000	300.5434	300.5434	0.0972		302.9734
<b>Total</b>	<b>0.1433</b>	<b>1.4424</b>	<b>2.2265</b>	<b>3.1000e-003</b>		<b>0.0662</b>	<b>0.0662</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>300.5434</b>	<b>300.5434</b>	<b>0.0972</b>		<b>302.9734</b>

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9500e-003	4.8600e-003	0.0856	2.7000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		28.2626	28.2626	5.7000e-004	5.8000e-004	28.4491
<b>Total</b>	<b>7.9500e-003</b>	<b>4.8600e-003</b>	<b>0.0856</b>	<b>2.7000e-004</b>	<b>0.0309</b>	<b>1.6000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.5000e-004</b>	<b>8.4000e-003</b>		<b>28.2626</b>	<b>28.2626</b>	<b>5.7000e-004</b>	<b>5.8000e-004</b>	<b>28.4491</b>

**3.8 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0597	2.0966	0.8654	0.0106	0.3836	0.0113	0.3949	0.1104	0.0108	0.1212		1,166.3182	1,166.3182	0.0712	0.1681	1,218.1799
Worker	0.6251	0.3822	6.7356	0.0216	2.6379	0.0128	2.6508	0.6996	0.0118	0.7114		2,223.3279	2,223.3279	0.0448	0.0455	2,237.9953
<b>Total</b>	<b>0.6848</b>	<b>2.4788</b>	<b>7.6010</b>	<b>0.0322</b>	<b>3.0216</b>	<b>0.0241</b>	<b>3.0457</b>	<b>0.8100</b>	<b>0.0226</b>	<b>0.8326</b>		<b>3,389.6461</b>	<b>3,389.6461</b>	<b>0.1160</b>	<b>0.2135</b>	<b>3,456.1752</b>

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0597	2.0966	0.8654	0.0106	0.3590	0.0113	0.3703	0.1044	0.0108	0.1152		1,166.3182	1,166.3182	0.0712	0.1681	1,218.1799
Worker	0.6251	0.3822	6.7356	0.0216	2.4315	0.0128	2.4444	0.6489	0.0118	0.6607		2,223.3279	2,223.3279	0.0448	0.0455	2,237.9853
<b>Total</b>	<b>0.6848</b>	<b>2.4788</b>	<b>7.6010</b>	<b>0.0322</b>	<b>2.7905</b>	<b>0.0241</b>	<b>2.8147</b>	<b>0.7533</b>	<b>0.0226</b>	<b>0.7759</b>		<b>3,389.6461</b>	<b>3,389.6461</b>	<b>0.1160</b>	<b>0.2135</b>	<b>3,456.1752</b>

**3.8 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Phase 1 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0588	2.0863	0.8619	0.0104	0.3836	0.0114	0.3950	0.1104	0.0109	0.1213		1,144.4835	1,144.4835	0.0721	0.1656	1,195.6383
Worker	0.5904	0.3464	6.3360	0.0208	2.6379	0.0123	2.6502	0.6996	0.0113	0.7109		2,168.9602	2,168.9602	0.0407	0.0428	2,182.7223
<b>Total</b>	<b>0.6492</b>	<b>2.4327</b>	<b>7.1978</b>	<b>0.0312</b>	<b>3.0216</b>	<b>0.0237</b>	<b>3.0452</b>	<b>0.8100</b>	<b>0.0222</b>	<b>0.8322</b>		<b>3,313.4438</b>	<b>3,313.4438</b>	<b>0.1128</b>	<b>0.2084</b>	<b>3,378.3606</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>



Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0588	2.0863	0.8619	0.0104	0.3590	0.0114	0.3704	0.1044	0.0109	0.1152		1,144.4835	1,144.4835	0.0721	0.1656	1,195.6383
Worker	0.5904	0.3464	6.3360	0.0208	2.4315	0.0123	2.4438	0.6489	0.0113	0.6602		2,168.9602	2,168.9602	0.0407	0.0428	2,182.7223
<b>Total</b>	<b>0.6492</b>	<b>2.4327</b>	<b>7.1978</b>	<b>0.0312</b>	<b>2.7905</b>	<b>0.0237</b>	<b>2.8142</b>	<b>0.7533</b>	<b>0.0222</b>	<b>0.7755</b>		<b>3,313.4438</b>	<b>3,313.4438</b>	<b>0.1128</b>	<b>0.2084</b>	<b>3,378.3606</b>

**3.9 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.3648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>36.5357</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Phase 1 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1176	0.0690	1.2618	4.1500e-003	0.5254	2.4500e-003	0.5278	0.1393	2.2500e-003	0.1416		431.9540	431.9540	8.1100e-003	8.5200e-003	434.6947
<b>Total</b>	<b>0.1176</b>	<b>0.0690</b>	<b>1.2618</b>	<b>4.1500e-003</b>	<b>0.5254</b>	<b>2.4500e-003</b>	<b>0.5278</b>	<b>0.1393</b>	<b>2.2500e-003</b>	<b>0.1416</b>		<b>431.9540</b>	<b>431.9540</b>	<b>8.1100e-003</b>	<b>8.5200e-003</b>	<b>434.6947</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.3648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>36.5357</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1176	0.0690	1.2618	4.1500e-003	0.4842	2.4500e-003	0.4867	0.1292	2.2500e-003	0.1315		431.9540	431.9540	8.1100e-003	8.5200e-003	434.6947
<b>Total</b>	<b>0.1176</b>	<b>0.0690</b>	<b>1.2618</b>	<b>4.1500e-003</b>	<b>0.4842</b>	<b>2.4500e-003</b>	<b>0.4867</b>	<b>0.1292</b>	<b>2.2500e-003</b>	<b>0.1315</b>		<b>431.9540</b>	<b>431.9540</b>	<b>8.1100e-003</b>	<b>8.5200e-003</b>	<b>434.6947</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 1 Construction  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	143.00	Dwelling Unit	13.90	143,000.00	409
Single Family Housing	210.00	Dwelling Unit	35.40	378,000.00	601
City Park	2.10	Acre	2.10	91,476.00	0
Parking Lot	11.20	1000sqft	0.26	11,200.00	0
Other Asphalt Surfaces	34.85	1000sqft	0.80	34,848.00	0
Other Non-Asphalt Surfaces	16.34	Acre	16.34	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.
- Construction Phase - Based information provided.
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.

Phase 1 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	90.00
tblConstructionPhase	NumDays	1,110.00	275.00
tblConstructionPhase	NumDays	110.00	91.00
tblConstructionPhase	NumDays	75.00	92.00
tblConstructionPhase	NumDays	40.00	46.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	PhaseEndDate	4/2/2029	5/30/2025
tblConstructionPhase	PhaseEndDate	9/4/2028	5/30/2025
tblConstructionPhase	PhaseEndDate	6/3/2024	2/7/2024
tblConstructionPhase	PhaseEndDate	12/18/2028	7/16/2024
tblConstructionPhase	PhaseEndDate	1/1/2024	10/3/2023
tblConstructionPhase	PhaseStartDate	12/19/2028	1/25/2025
tblConstructionPhase	PhaseStartDate	6/4/2024	5/13/2024
tblConstructionPhase	PhaseStartDate	1/2/2024	10/4/2023
tblConstructionPhase	PhaseStartDate	9/5/2028	3/10/2024
tblConstructionPhase	PhaseStartDate	11/7/2023	8/1/2023
tblLandUse	LandUseSquareFeet	711,770.40	0.00
tblLandUse	LotAcreage	8.94	13.90
tblLandUse	LotAcreage	68.18	35.40
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.0090	40.3516	35.7874	0.0774	19.9094	1.7496	21.1779	10.1705	1.6098	11.3376	0.0000	7,542.3188	7,542.3188	2.2785	0.0516	7,614.6493
2024	7.1745	70.9449	63.9061	0.1439	19.1483	2.9859	22.1343	7.5087	2.7473	10.2560	0.0000	14,030.3408	14,030.3408	4.2442	0.2205	14,166.1460
2025	38.7384	16.2509	25.8727	0.0641	3.5469	0.6052	4.1521	0.9493	0.5723	1.5216	0.0000	6,461.1755	6,461.1755	0.7384	0.2205	6,545.3478
Maximum	38.7384	70.9449	63.9061	0.1439	19.9094	2.9859	22.1343	10.1705	2.7473	11.3376	0.0000	14,030.3408	14,030.3408	4.2442	0.2205	14,166.1460

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.0090	40.3516	35.7874	0.0774	8.6367	1.7496	9.9052	4.3822	1.6098	5.5493	0.0000	7,542.3188	7,542.3188	2.2785	0.0516	7,614.6492
2024	7.1745	70.9449	63.9061	0.1439	8.5551	2.9859	11.5410	3.3116	2.7473	6.0589	0.0000	14,030.3408	14,030.3408	4.2442	0.2205	14,166.1460
2025	38.7384	16.2509	25.8727	0.0641	3.2748	0.6052	3.8800	0.8825	0.5723	1.4548	0.0000	6,461.1755	6,461.1755	0.7384	0.2205	6,545.3478
Maximum	38.7384	70.9449	63.9061	0.1439	8.6367	2.9859	11.5410	4.3822	2.7473	6.0589	0.0000	14,030.3408	14,030.3408	4.2442	0.2205	14,166.1460

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	51.96	0.00	46.64	53.96	0.00	43.49	0.00	0.00	0.00	0.00	0.00	0.00

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	10/3/2023	5	46	
2	Rough Grading	Grading	10/4/2023	2/7/2024	5	91	
3	Utility Trenching	Trenching	1/1/20/2023	3/9/2024	5	80	
4	Fine Grading	Grading	1/6/2024	5/12/2024	5	90	
5	Paving	Paving	3/10/2024	7/16/2024	5	92	
6	Finishing/Landscaping	Trenching	4/12/2024	8/16/2024	5	91	
7	Building Construction	Building Construction	5/13/2024	5/30/2025	5	275	
8	Architectural Coating	Architectural Coating	1/25/2025	5/30/2025	5	90	

Acres of Grading (Site Preparation Phase): 69

Acres of Grading (Grading Phase): 273

Acres of Paving: 17.4

Residential Indoor: 1,055,025; Residential Outdoor: 351,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,763

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fine Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Fine Grading	Graders	1	8.00	187	0.41
Rough Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Rough Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Phase 1 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	5.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	47.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	236.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8000e-003	0.2929	0.1200	1.4400e-003	0.0512	1.4500e-003	0.0526	0.0147	1.3800e-003	0.0161		158.1918	158.1918	9.3700e-003	0.0227	165.1956
Worker	0.0554	0.0356	0.5135	1.6200e-003	0.2012	1.0300e-003	0.2022	0.0534	9.5000e-004	0.0543		165.4482	165.4482	3.8600e-003	3.9400e-003	166.7201
<b>Total</b>	<b>0.0632</b>	<b>0.3285</b>	<b>0.6334</b>	<b>3.0600e-003</b>	<b>0.2524</b>	<b>2.4800e-003</b>	<b>0.2548</b>	<b>0.0681</b>	<b>2.3300e-003</b>	<b>0.0704</b>		<b>323.6400</b>	<b>323.6400</b>	<b>0.0132</b>	<b>0.0267</b>	<b>331.9157</b>



Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.2660</b>	<b>9.6694</b>	<b>4.3188</b>	<b>1.1647</b>	<b>5.4835</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8000e-003	0.2929	0.1200	1.4400e-003	0.0479	1.4500e-003	0.0493	0.0139	1.3800e-003	0.0153		158.1918	158.1918	9.3700e-003	0.0227	165.1956
Worker	0.0554	0.0356	0.5135	1.6200e-003	0.1855	1.0300e-003	0.1865	0.0495	9.5000e-004	0.0504		165.4482	165.4482	3.8600e-003	3.9400e-003	166.7201
<b>Total</b>	<b>0.0632</b>	<b>0.3285</b>	<b>0.6334</b>	<b>3.0600e-003</b>	<b>0.2333</b>	<b>2.4800e-003</b>	<b>0.2358</b>	<b>0.0634</b>	<b>2.3300e-003</b>	<b>0.0657</b>		<b>323.6400</b>	<b>323.6400</b>	<b>0.0132</b>	<b>0.0267</b>	<b>331.9157</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Rough Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.4245</b>	<b>10.6281</b>	<b>3.6538</b>	<b>1.3105</b>	<b>4.9643</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0156	0.5857	0.2399	2.8800e-003	0.1023	2.9000e-003	0.1052	0.0294	2.7700e-003	0.0322		316.3837	316.3837	0.0187	0.0454	330.3911
Worker	0.0616	0.0396	0.5705	1.8000e-003	0.2236	1.1400e-003	0.2247	0.0593	1.0500e-003	0.0603		183.8313	183.8313	4.2900e-003	4.3800e-003	185.2446
<b>Total</b>	<b>0.0772</b>	<b>0.6253</b>	<b>0.8104</b>	<b>4.6800e-003</b>	<b>0.3259</b>	<b>4.0400e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8200e-003</b>	<b>0.0926</b>		<b>500.2150</b>	<b>500.2150</b>	<b>0.0230</b>	<b>0.0498</b>	<b>515.6357</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.4245</b>	<b>5.3590</b>	<b>1.5620</b>	<b>1.3105</b>	<b>2.8725</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0156	0.5857	0.2399	2.8800e-003	0.0957	2.9000e-003	0.0986	0.0278	2.7700e-003	0.0306		316.3837	316.3837	0.0187	0.0454	330.3911
Worker	0.0616	0.0396	0.5705	1.8000e-003	0.2061	1.1400e-003	0.2072	0.0550	1.0500e-003	0.0561		183.8313	183.8313	4.2900e-003	4.3800e-003	185.2446
<b>Total</b>	<b>0.0772</b>	<b>0.6253</b>	<b>0.8104</b>	<b>4.6800e-003</b>	<b>0.3018</b>	<b>4.0400e-003</b>	<b>0.3058</b>	<b>0.0828</b>	<b>3.8200e-003</b>	<b>0.0867</b>		<b>500.2150</b>	<b>500.2150</b>	<b>0.0230</b>	<b>0.0498</b>	<b>515.6357</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.3 Rough Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.5700e-003</b>	<b>0.3259</b>	<b>4.1200e-003</b>	<b>0.3300</b>	<b>0.0887</b>	<b>3.9000e-003</b>	<b>0.0926</b>		<b>490.9100</b>	<b>490.9100</b>	<b>0.0228</b>	<b>0.0490</b>	<b>506.0871</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.3354</b>	<b>5.2699</b>	<b>1.5620</b>	<b>1.2286</b>	<b>2.7906</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.5700e-003</b>	<b>0.3018</b>	<b>4.1200e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.9000e-003</b>	<b>0.0867</b>		<b>490.9100</b>	<b>490.9100</b>	<b>0.0228</b>	<b>0.0490</b>	<b>506.0871</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Utility Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5854	5.1948	6.6976	9.8800e-003		0.3207	0.3207		0.2950	0.2950		957.0936	957.0936	0.3095		964.8322
<b>Total</b>	<b>0.5854</b>	<b>5.1948</b>	<b>6.6976</b>	<b>9.8800e-003</b>		<b>0.3207</b>	<b>0.3207</b>		<b>0.2950</b>	<b>0.2950</b>		<b>957.0936</b>	<b>957.0936</b>	<b>0.3095</b>		<b>964.8322</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0246	0.0158	0.2282	7.2000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		73.5325	73.5325	1.7200e-003	1.7500e-003	74.0978
<b>Total</b>	<b>0.0246</b>	<b>0.0158</b>	<b>0.2282</b>	<b>7.2000e-004</b>	<b>0.0894</b>	<b>4.6000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.2000e-004</b>	<b>0.0241</b>		<b>73.5325</b>	<b>73.5325</b>	<b>1.7200e-003</b>	<b>1.7500e-003</b>	<b>74.0978</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5854	5.1948	6.6976	9.8800e-003		0.3207	0.3207		0.2950	0.2950	0.0000	957.0936	957.0936	0.3095		964.8322
<b>Total</b>	<b>0.5854</b>	<b>5.1948</b>	<b>6.6976</b>	<b>9.8800e-003</b>		<b>0.3207</b>	<b>0.3207</b>		<b>0.2950</b>	<b>0.2950</b>	<b>0.0000</b>	<b>957.0936</b>	<b>957.0936</b>	<b>0.3095</b>		<b>964.8322</b>

Phase 1 Construction - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0246	0.0158	0.2282	7.2000e-004	0.0824	4.6000e-004	0.0829	0.0220	4.2000e-004	0.0224		73.5325	73.5325	1.7200e-003	1.7500e-003	74.0978
<b>Total</b>	<b>0.0246</b>	<b>0.0158</b>	<b>0.2282</b>	<b>7.2000e-004</b>	<b>0.0824</b>	<b>4.6000e-004</b>	<b>0.0829</b>	<b>0.0220</b>	<b>4.2000e-004</b>	<b>0.0224</b>		<b>73.5325</b>	<b>73.5325</b>	<b>1.7200e-003</b>	<b>1.7500e-003</b>	<b>74.0978</b>

**3.4 Utility Trenching - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5681	4.9375	6.7068	9.8900e-003		0.3065	0.3065		0.2820	0.2820		957.2542	957.2542	0.3096		964.9941
<b>Total</b>	<b>0.5681</b>	<b>4.9375</b>	<b>6.7068</b>	<b>9.8900e-003</b>		<b>0.3065</b>	<b>0.3065</b>		<b>0.2820</b>	<b>0.2820</b>		<b>957.2542</b>	<b>957.2542</b>	<b>0.3096</b>		<b>964.9941</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0232	0.0142	0.2129	7.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.0000e-004	0.0241		71.7692	71.7692	1.5600e-003	1.6400e-003	72.2966
<b>Total</b>	<b>0.0232</b>	<b>0.0142</b>	<b>0.2129</b>	<b>7.0000e-004</b>	<b>0.0894</b>	<b>4.4000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.0000e-004</b>	<b>0.0241</b>		<b>71.7692</b>	<b>71.7692</b>	<b>1.5600e-003</b>	<b>1.6400e-003</b>	<b>72.2966</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5681	4.9375	6.7068	9.8900e-003		0.3065	0.3065		0.2820	0.2820	0.0000	957.2542	957.2542	0.3096		964.9941
<b>Total</b>	<b>0.5681</b>	<b>4.9375</b>	<b>6.7068</b>	<b>9.8900e-003</b>		<b>0.3065</b>	<b>0.3065</b>		<b>0.2820</b>	<b>0.2820</b>	<b>0.0000</b>	<b>957.2542</b>	<b>957.2542</b>	<b>0.3096</b>		<b>964.9941</b>



Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0232	0.0142	0.2129	7.0000e-004	0.0824	4.4000e-004	0.0829	0.0220	4.0000e-004	0.0224		71.7692	71.7692	1.5600e-003	1.6400e-003	72.2966
<b>Total</b>	<b>0.0232</b>	<b>0.0142</b>	<b>0.2129</b>	<b>7.0000e-004</b>	<b>0.0824</b>	<b>4.4000e-004</b>	<b>0.0829</b>	<b>0.0220</b>	<b>4.0000e-004</b>	<b>0.0224</b>		<b>71.7692</b>	<b>71.7692</b>	<b>1.5600e-003</b>	<b>1.6400e-003</b>	<b>72.2966</b>

**3.5 Fine Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.5700e-003</b>	<b>0.3259</b>	<b>4.1200e-003</b>	<b>0.3300</b>	<b>0.0887</b>	<b>3.9000e-003</b>	<b>0.0926</b>		<b>490.9100</b>	<b>490.9100</b>	<b>0.0228</b>	<b>0.0490</b>	<b>506.0871</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.3354</b>	<b>5.2699</b>	<b>1.5620</b>	<b>1.2286</b>	<b>2.7906</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.5700e-003</b>	<b>0.3018</b>	<b>4.1200e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.9000e-003</b>	<b>0.0867</b>		<b>490.9100</b>	<b>490.9100</b>	<b>0.0228</b>	<b>0.0490</b>	<b>506.0871</b>

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0184</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0436	0.0267	0.3993	1.3000e-003	0.1677	8.2000e-004	0.1685	0.0445	7.5000e-004	0.0452		134.5673	134.5673	2.9200e-003	3.0700e-003	135.5562
<b>Total</b>	<b>0.0436</b>	<b>0.0267</b>	<b>0.3993</b>	<b>1.3000e-003</b>	<b>0.1677</b>	<b>8.2000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.5000e-004</b>	<b>0.0452</b>		<b>134.5673</b>	<b>134.5673</b>	<b>2.9200e-003</b>	<b>3.0700e-003</b>	<b>135.5562</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0184</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0436	0.0267	0.3993	1.3000e-003	0.1546	8.2000e-004	0.1554	0.0413	7.5000e-004	0.0420		134.5673	134.5673	2.9200e-003	3.0700e-003	135.5562
<b>Total</b>	<b>0.0436</b>	<b>0.0267</b>	<b>0.3993</b>	<b>1.3000e-003</b>	<b>0.1546</b>	<b>8.2000e-004</b>	<b>0.1554</b>	<b>0.0413</b>	<b>7.5000e-004</b>	<b>0.0420</b>		<b>134.5673</b>	<b>134.5673</b>	<b>2.9200e-003</b>	<b>3.0700e-003</b>	<b>135.5562</b>

**3.7 Finishing/Landscaping - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1433	1.4424	2.2265	3.1000e-003		0.0662	0.0662		0.0609	0.0609		300.5434	300.5434	0.0972		302.9734
<b>Total</b>	<b>0.1433</b>	<b>1.4424</b>	<b>2.2265</b>	<b>3.1000e-003</b>		<b>0.0662</b>	<b>0.0662</b>		<b>0.0609</b>	<b>0.0609</b>		<b>300.5434</b>	<b>300.5434</b>	<b>0.0972</b>		<b>302.9734</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7100e-003	5.3300e-003	0.0799	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		26.9135	26.9135	5.8000e-004	6.1000e-004	27.1112
<b>Total</b>	<b>8.7100e-003</b>	<b>5.3300e-003</b>	<b>0.0799</b>	<b>2.6000e-004</b>	<b>0.0335</b>	<b>1.6000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.5000e-004</b>	<b>9.0400e-003</b>		<b>26.9135</b>	<b>26.9135</b>	<b>5.8000e-004</b>	<b>6.1000e-004</b>	<b>27.1112</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1433	1.4424	2.2265	3.1000e-003		0.0662	0.0662		0.0609	0.0609	0.0000	300.5434	300.5434	0.0972		302.9734
<b>Total</b>	<b>0.1433</b>	<b>1.4424</b>	<b>2.2265</b>	<b>3.1000e-003</b>		<b>0.0662</b>	<b>0.0662</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>300.5434</b>	<b>300.5434</b>	<b>0.0972</b>		<b>302.9734</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7100e-003	5.3300e-003	0.0799	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		26.9135	26.9135	5.8000e-004	6.1000e-004	27.1112
<b>Total</b>	<b>8.7100e-003</b>	<b>5.3300e-003</b>	<b>0.0799</b>	<b>2.6000e-004</b>	<b>0.0309</b>	<b>1.6000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.5000e-004</b>	<b>8.4000e-003</b>		<b>26.9135</b>	<b>26.9135</b>	<b>5.8000e-004</b>	<b>6.1000e-004</b>	<b>27.1112</b>

**3.8 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0576	2.1903	0.8926	0.0106	0.3836	0.0114	0.3950	0.1104	0.0109	0.1213		1,168.0759	1,168.0759	0.0710	0.1684	1,220.0457
Worker	0.6855	0.4196	6.2816	0.0205	2.6379	0.0128	2.6508	0.6996	0.0118	0.7114		2,117.1925	2,117.1925	0.0460	0.0484	2,132.7504
<b>Total</b>	<b>0.7431</b>	<b>2.6099</b>	<b>7.1742</b>	<b>0.0311</b>	<b>3.0216</b>	<b>0.0242</b>	<b>3.0458</b>	<b>0.8100</b>	<b>0.0227</b>	<b>0.8327</b>		<b>3,285.2684</b>	<b>3,285.2684</b>	<b>0.1170</b>	<b>0.2168</b>	<b>3,352.7962</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>



Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0576	2.1903	0.8926	0.0106	0.3590	0.0114	0.3704	0.1044	0.0109	0.1152		1,168.0759	1,168.0759	0.0710	0.1684	1,220.0457
Worker	0.6855	0.4196	6.2816	0.0205	2.4315	0.0128	2.4444	0.6489	0.0118	0.6607		2,117.1925	2,117.1925	0.0460	0.0484	2,132.7504
<b>Total</b>	<b>0.7431</b>	<b>2.6099</b>	<b>7.1742</b>	<b>0.0311</b>	<b>2.7905</b>	<b>0.0242</b>	<b>2.8147</b>	<b>0.7533</b>	<b>0.0227</b>	<b>0.7760</b>		<b>3,285.2684</b>	<b>3,285.2684</b>	<b>0.1170</b>	<b>0.2168</b>	<b>3,352.7962</b>

**3.8 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0567	2.1797	0.8885	0.0104	0.3836	0.0114	0.3951	0.1104	0.0109	0.1213		1,146.2456	1,146.2456	0.0719	0.1660	1,197.5061
Worker	0.6493	0.3802	5.9128	0.0198	2.6379	0.0123	2.6502	0.6996	0.0113	0.7109		2,065.6317	2,065.6317	0.0418	0.0455	2,080.2289
<b>Total</b>	<b>0.7060</b>	<b>2.5599</b>	<b>6.8013</b>	<b>0.0302</b>	<b>3.0216</b>	<b>0.0237</b>	<b>3.0453</b>	<b>0.8100</b>	<b>0.0222</b>	<b>0.8322</b>		<b>3,211.8773</b>	<b>3,211.8773</b>	<b>0.1137</b>	<b>0.2115</b>	<b>3,277.7350</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0567	2.1797	0.8885	0.0104	0.3590	0.0114	0.3704	0.1044	0.0109	0.1153		1,146.2456	1,146.2456	0.0719	0.1660	1,197.5061
Worker	0.6493	0.3802	5.9128	0.0198	2.4315	0.0123	2.4438	0.6489	0.0113	0.6602		2,065.6317	2,065.6317	0.0418	0.0455	2,080.2289
<b>Total</b>	<b>0.7060</b>	<b>2.5599</b>	<b>6.8013</b>	<b>0.0302</b>	<b>2.7905</b>	<b>0.0237</b>	<b>2.8142</b>	<b>0.7533</b>	<b>0.0222</b>	<b>0.7755</b>		<b>3,211.8773</b>	<b>3,211.8773</b>	<b>0.1137</b>	<b>0.2115</b>	<b>3,277.7350</b>

**3.9 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.3648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>36.5357</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1293	0.0757	1.1776	3.9500e-003	0.5254	2.4500e-003	0.5278	0.1393	2.2500e-003	0.1416		411.3758	411.3758	8.3300e-003	9.0600e-003	414.2829
<b>Total</b>	<b>0.1293</b>	<b>0.0757</b>	<b>1.1776</b>	<b>3.9500e-003</b>	<b>0.5254</b>	<b>2.4500e-003</b>	<b>0.5278</b>	<b>0.1393</b>	<b>2.2500e-003</b>	<b>0.1416</b>		<b>411.3758</b>	<b>411.3758</b>	<b>8.3300e-003</b>	<b>9.0600e-003</b>	<b>414.2829</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.3648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>36.5357</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Phase 1 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1293	0.0757	1.1776	3.9500e-003	0.4842	2.4500e-003	0.4867	0.1292	2.2500e-003	0.1315		411.3758	411.3758	8.3300e-003	9.0600e-003	414.2829
<b>Total</b>	<b>0.1293</b>	<b>0.0757</b>	<b>1.1776</b>	<b>3.9500e-003</b>	<b>0.4842</b>	<b>2.4500e-003</b>	<b>0.4867</b>	<b>0.1292</b>	<b>2.2500e-003</b>	<b>0.1315</b>		<b>411.3758</b>	<b>411.3758</b>	<b>8.3300e-003</b>	<b>9.0600e-003</b>	<b>414.2829</b>

Phase 1 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 1 Construction  
Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	143.00	Dwelling Unit	13.90	143,000.00	409
Single Family Housing	210.00	Dwelling Unit	35.40	378,000.00	601
City Park	2.10	Acre	2.10	91,476.00	0
Parking Lot	11.20	1000sqft	0.26	11,200.00	0
Other Asphalt Surfaces	34.85	1000sqft	0.80	34,848.00	0
Other Non-Asphalt Surfaces	16.34	Acre	16.34	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.
- Construction Phase - Based information provided.
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.

Phase 1 Construction - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	75.00	90.00
tblConstructionPhase	NumDays	1,110.00	275.00
tblConstructionPhase	NumDays	110.00	91.00
tblConstructionPhase	NumDays	75.00	92.00
tblConstructionPhase	NumDays	40.00	46.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	PhaseEndDate	4/2/2029	5/30/2025
tblConstructionPhase	PhaseEndDate	9/4/2028	5/30/2025
tblConstructionPhase	PhaseEndDate	6/3/2024	2/7/2024
tblConstructionPhase	PhaseEndDate	12/18/2028	7/16/2024
tblConstructionPhase	PhaseEndDate	1/1/2024	10/3/2023
tblConstructionPhase	PhaseStartDate	12/19/2028	1/25/2025
tblConstructionPhase	PhaseStartDate	6/4/2024	5/13/2024
tblConstructionPhase	PhaseStartDate	1/2/2024	10/4/2023
tblConstructionPhase	PhaseStartDate	9/5/2028	3/10/2024
tblConstructionPhase	PhaseStartDate	11/7/2023	8/1/2023
tblLandUse	LandUseSquareFeet	711,770.40	0.00
tblLandUse	LotAcreage	8.94	13.90
tblLandUse	LotAcreage	68.18	35.40
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

Phase 1 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1786	1.8258	1.4478	3.2100e-003	0.8037	0.0790	0.8827	0.3569	0.0727	0.4296	0.0000	283.9152	283.9152	0.0856	2.0100e-003	286.6531
2024	0.4444	3.9177	4.6108	0.0103	0.9213	0.1645	1.0858	0.3011	0.1525	0.4536	0.0000	927.3059	927.3059	0.2009	0.0193	938.0739
2025	1.7584	0.8673	1.3778	3.4200e-003	0.1835	0.0322	0.2157	0.0492	0.0304	0.0796	0.0000	312.4057	312.4057	0.0360	0.0108	316.5108
<b>Maximum</b>	<b>1.7584</b>	<b>3.9177</b>	<b>4.6108</b>	<b>0.0103</b>	<b>0.9213</b>	<b>0.1645</b>	<b>1.0858</b>	<b>0.3569</b>	<b>0.1525</b>	<b>0.4536</b>	<b>0.0000</b>	<b>927.3059</b>	<b>927.3059</b>	<b>0.2009</b>	<b>0.0193</b>	<b>938.0739</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1786	1.8258	1.4478	3.2100e-003	0.3521	0.0790	0.4311	0.1549	0.0727	0.2276	0.0000	283.9149	283.9149	0.0856	2.0100e-003	286.6528
2024	0.4444	3.9177	4.6108	0.0103	0.5319	0.1645	0.6964	0.1663	0.1525	0.3188	0.0000	927.3051	927.3051	0.2009	0.0193	938.0731
2025	1.7584	0.8673	1.3778	3.4200e-003	0.1695	0.0322	0.2017	0.0458	0.0304	0.0762	0.0000	312.4055	312.4055	0.0360	0.0108	316.5106
<b>Maximum</b>	<b>1.7584</b>	<b>3.9177</b>	<b>4.6108</b>	<b>0.0103</b>	<b>0.5319</b>	<b>0.1645</b>	<b>0.6964</b>	<b>0.1663</b>	<b>0.1525</b>	<b>0.3188</b>	<b>0.0000</b>	<b>927.3051</b>	<b>927.3051</b>	<b>0.2009</b>	<b>0.0193</b>	<b>938.0731</b>



Phase 1 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	44.80	0.00	39.15	48.11	0.00	35.34	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2023	10-31-2023	1.0838	1.0838
2	11-1-2023	1-31-2024	1.7270	1.7270
3	2-1-2024	4-30-2024	1.5399	1.5399
4	5-1-2024	7-31-2024	1.0161	1.0161
5	8-1-2024	10-31-2024	0.6053	0.6053
6	11-1-2024	1-31-2025	0.6821	0.6821
7	2-1-2025	4-30-2025	1.7457	1.7457
8	5-1-2025	7-31-2025	0.5870	0.5870
		Highest	1.7457	1.7457

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	10/3/2023	5	46	
2	Rough Grading	Grading	10/4/2023	2/7/2024	5	91	
3	Utility Trenching	Trenching	11/20/2023	3/9/2024	5	80	
4	Fine Grading	Grading	1/6/2024	5/12/2024	5	90	
5	Paving	Paving	3/10/2024	7/16/2024	5	92	
6	Finishing/Landscaping	Trenching	4/12/2024	8/16/2024	5	91	
7	Building Construction	Building Construction	5/13/2024	5/30/2025	5	275	
8	Architectural Coating	Architectural Coating	1/25/2025	5/30/2025	5	90	

Acres of Grading (Site Preparation Phase): 69

Acres of Grading (Grading Phase): 273

Acres of Paving: 17.4

Residential Indoor: 1,055,025; Residential Outdoor: 351,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,763

Phase 1 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fine Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Fine Grading	Graders	1	8.00	187	0.41
Rough Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Rough Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	5.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	47.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	236.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Phase 1 Construction - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4521	0.0000	0.4521	0.2324	0.0000	0.2324	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6331	0.4196	8.8000e-004		0.0291	0.0291		0.0268	0.0268	0.0000	76.9366	76.9366	0.0249	0.0000	77.5587
<b>Total</b>	<b>0.0612</b>	<b>0.6331</b>	<b>0.4196</b>	<b>8.8000e-004</b>	<b>0.4521</b>	<b>0.0291</b>	<b>0.4812</b>	<b>0.2324</b>	<b>0.0268</b>	<b>0.2592</b>	<b>0.0000</b>	<b>76.9366</b>	<b>76.9366</b>	<b>0.0249</b>	<b>0.0000</b>	<b>77.5587</b>

Phase 1 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	6.7500e-003	2.7100e-003	3.0000e-005	1.1600e-003	3.0000e-005	1.1900e-003	3.3000e-004	3.0000e-005	3.7000e-004	0.0000	3.2979	3.2979	2.0000e-004	4.7000e-004	3.4439
Worker	1.1700e-003	8.4000e-004	0.0121	4.0000e-005	4.5400e-003	2.0000e-005	4.5700e-003	1.2100e-003	2.0000e-005	1.2300e-003	0.0000	3.4989	3.4989	8.0000e-005	8.0000e-005	3.5258
<b>Total</b>	<b>1.3500e-003</b>	<b>7.5900e-003</b>	<b>0.0148</b>	<b>7.0000e-005</b>	<b>5.7000e-003</b>	<b>5.0000e-005</b>	<b>5.7600e-003</b>	<b>1.5400e-003</b>	<b>5.0000e-005</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>6.7968</b>	<b>6.7968</b>	<b>2.8000e-004</b>	<b>5.5000e-004</b>	<b>6.9697</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1933	0.0000	0.1933	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6331	0.4196	8.8000e-004		0.0291	0.0291		0.0268	0.0268	0.0000	76.9365	76.9365	0.0249	0.0000	77.5586
<b>Total</b>	<b>0.0612</b>	<b>0.6331</b>	<b>0.4196</b>	<b>8.8000e-004</b>	<b>0.1933</b>	<b>0.0291</b>	<b>0.2224</b>	<b>0.0993</b>	<b>0.0268</b>	<b>0.1261</b>	<b>0.0000</b>	<b>76.9365</b>	<b>76.9365</b>	<b>0.0249</b>	<b>0.0000</b>	<b>77.5586</b>

Phase 1 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	6.7500e-003	2.7100e-003	3.0000e-005	1.0900e-003	3.0000e-005	1.1200e-003	3.2000e-004	3.0000e-005	3.5000e-004	0.0000	3.2979	3.2979	2.0000e-004	4.7000e-004	3.4439
Worker	1.1700e-003	8.4000e-004	0.0121	4.0000e-005	4.1900e-003	2.0000e-005	4.2100e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.4989	3.4989	8.0000e-005	8.0000e-005	3.5258
<b>Total</b>	<b>1.3500e-003</b>	<b>7.5900e-003</b>	<b>0.0148</b>	<b>7.0000e-005</b>	<b>5.2800e-003</b>	<b>5.0000e-005</b>	<b>5.3300e-003</b>	<b>1.4400e-003</b>	<b>5.0000e-005</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>6.7968</b>	<b>6.7968</b>	<b>2.8000e-004</b>	<b>5.5000e-004</b>	<b>6.9697</b>

**3.3 Rough Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3345	0.0000	0.3345	0.1199	0.0000	0.1199	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1046	1.0872	0.8836	1.9600e-003		0.0449	0.0449		0.0413	0.0413	0.0000	171.7859	171.7859	0.0556	0.0000	173.1749
<b>Total</b>	<b>0.1046</b>	<b>1.0872</b>	<b>0.8836</b>	<b>1.9600e-003</b>	<b>0.3345</b>	<b>0.0449</b>	<b>0.3793</b>	<b>0.1199</b>	<b>0.0413</b>	<b>0.1612</b>	<b>0.0000</b>	<b>171.7859</b>	<b>171.7859</b>	<b>0.0556</b>	<b>0.0000</b>	<b>173.1749</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0185	7.4300e-003	9.0000e-006	3.1800e-003	9.0000e-005	3.2700e-003	9.2000e-004	9.0000e-005	1.0000e-003	0.0000	9.0334	9.0334	5.4000e-004	1.3000e-003	9.4334
Worker	1.7800e-003	1.2700e-003	0.0184	6.0000e-006	6.9200e-003	4.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.3244	5.3244	1.2000e-004	1.3000e-004	5.3653
<b>Total</b>	<b>2.2800e-003</b>	<b>0.0198</b>	<b>0.0258</b>	<b>1.5000e-004</b>	<b>0.0101</b>	<b>1.3000e-004</b>	<b>0.0102</b>	<b>2.7600e-003</b>	<b>1.2000e-004</b>	<b>2.8700e-003</b>	<b>0.0000</b>	<b>14.3578</b>	<b>14.3578</b>	<b>6.6000e-004</b>	<b>1.4300e-003</b>	<b>14.7987</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1430	0.0000	0.1430	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1046	1.0872	0.8836	1.9600e-003		0.0449	0.0449		0.0413	0.0413	0.0000	171.7857	171.7857	0.0556	0.0000	173.1747
<b>Total</b>	<b>0.1046</b>	<b>1.0872</b>	<b>0.8836</b>	<b>1.9600e-003</b>	<b>0.1430</b>	<b>0.0449</b>	<b>0.1879</b>	<b>0.0513</b>	<b>0.0413</b>	<b>0.0925</b>	<b>0.0000</b>	<b>171.7857</b>	<b>171.7857</b>	<b>0.0556</b>	<b>0.0000</b>	<b>173.1747</b>

Phase 1 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0185	7.4300e-003	9.0000e-005	2.9700e-003	9.0000e-005	3.0600e-003	8.7000e-004	9.0000e-005	9.5000e-004	0.0000	9.0334	9.0334	5.4000e-004	1.3000e-003	9.4334
Worker	1.7800e-003	1.2700e-003	0.0184	6.0000e-005	6.3800e-003	4.0000e-005	6.4100e-003	1.7000e-003	3.0000e-005	1.7400e-003	0.0000	5.3244	5.3244	1.2000e-004	1.3000e-004	5.3653
<b>Total</b>	<b>2.2800e-003</b>	<b>0.0198</b>	<b>0.0258</b>	<b>1.5000e-004</b>	<b>9.3500e-003</b>	<b>1.3000e-004</b>	<b>9.4700e-003</b>	<b>2.5700e-003</b>	<b>1.2000e-004</b>	<b>2.6900e-003</b>	<b>0.0000</b>	<b>14.3578</b>	<b>14.3578</b>	<b>6.6000e-004</b>	<b>1.4300e-003</b>	<b>14.7987</b>

**3.3 Rough Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2291	0.0000	0.2291	0.0620	0.0000	0.0620	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0451	0.4533	0.3881	8.7000e-004		0.0187	0.0187		0.0172	0.0172	0.0000	76.3273	76.3273	0.0247	0.0000	76.9445
<b>Total</b>	<b>0.0451</b>	<b>0.4533</b>	<b>0.3881</b>	<b>8.7000e-004</b>	<b>0.2291</b>	<b>0.0187</b>	<b>0.2478</b>	<b>0.0620</b>	<b>0.0172</b>	<b>0.0792</b>	<b>0.0000</b>	<b>76.3273</b>	<b>76.3273</b>	<b>0.0247</b>	<b>0.0000</b>	<b>76.9445</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	8.2000e-003	3.2800e-003	4.0000e-005	1.4100e-003	4.0000e-005	1.4500e-003	4.1000e-004	4.0000e-005	4.5000e-004	0.0000	3.9526	3.9526	2.4000e-004	5.7000e-004	4.1285
Worker	7.4000e-004	5.1000e-004	7.6200e-003	2.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	1.0000e-005	8.3000e-004	0.0000	2.3096	2.3096	5.0000e-005	5.0000e-005	2.3266
<b>Total</b>	<b>9.6000e-004</b>	<b>8.7100e-003</b>	<b>0.0109</b>	<b>6.0000e-005</b>	<b>4.4800e-003</b>	<b>6.0000e-005</b>	<b>4.5400e-003</b>	<b>1.2300e-003</b>	<b>5.0000e-005</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>6.2622</b>	<b>6.2622</b>	<b>2.9000e-004</b>	<b>6.2000e-004</b>	<b>6.4551</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0979	0.0000	0.0979	0.0265	0.0000	0.0265	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0451	0.4533	0.3881	8.7000e-004		0.0187	0.0187		0.0172	0.0172	0.0000	76.3272	76.3272	0.0247	0.0000	76.9444
<b>Total</b>	<b>0.0451</b>	<b>0.4533</b>	<b>0.3881</b>	<b>8.7000e-004</b>	<b>0.0979</b>	<b>0.0187</b>	<b>0.1166</b>	<b>0.0265</b>	<b>0.0172</b>	<b>0.0437</b>	<b>0.0000</b>	<b>76.3272</b>	<b>76.3272</b>	<b>0.0247</b>	<b>0.0000</b>	<b>76.9444</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	8.2000e-003	3.2800e-003	4.0000e-005	1.3200e-003	4.0000e-005	1.3600e-003	3.8000e-004	4.0000e-005	4.3000e-004	0.0000	3.9526	3.9526	2.4000e-004	5.7000e-004	4.1285
Worker	7.4000e-004	5.1000e-004	7.6200e-003	2.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3096	2.3096	5.0000e-005	5.0000e-005	2.3266
<b>Total</b>	<b>9.6000e-004</b>	<b>8.7100e-003</b>	<b>0.0109</b>	<b>6.0000e-005</b>	<b>4.1500e-003</b>	<b>6.0000e-005</b>	<b>4.2100e-003</b>	<b>1.1400e-003</b>	<b>5.0000e-005</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>6.2622</b>	<b>6.2622</b>	<b>2.9000e-004</b>	<b>6.2000e-004</b>	<b>6.4551</b>



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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Utility Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7800e-003	0.0779	0.1005	1.5000e-004		4.8100e-003	4.8100e-003		4.4200e-003	4.4200e-003	0.0000	13.0239	13.0239	4.2100e-003	0.0000	13.1292
<b>Total</b>	<b>8.7800e-003</b>	<b>0.0779</b>	<b>0.1005</b>	<b>1.5000e-004</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>		<b>4.4200e-003</b>	<b>4.4200e-003</b>	<b>0.0000</b>	<b>13.0239</b>	<b>13.0239</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.1292</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.4000e-004	3.5000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0142	1.0142	2.0000e-005	2.0000e-005	1.0220
<b>Total</b>	<b>3.4000e-004</b>	<b>2.4000e-004</b>	<b>3.5000e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0142</b>	<b>1.0142</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0220</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7800e-003	0.0779	0.1005	1.5000e-004		4.8100e-003	4.8100e-003		4.4200e-003	4.4200e-003	0.0000	13.0239	13.0239	4.2100e-003	0.0000	13.1292
<b>Total</b>	<b>8.7800e-003</b>	<b>0.0779</b>	<b>0.1005</b>	<b>1.5000e-004</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>		<b>4.4200e-003</b>	<b>4.4200e-003</b>	<b>0.0000</b>	<b>13.0239</b>	<b>13.0239</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.1292</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.4000e-004	3.5000e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0142	1.0142	2.0000e-005	2.0000e-005	1.0220
<b>Total</b>	<b>3.4000e-004</b>	<b>2.4000e-004</b>	<b>3.5000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.0142</b>	<b>1.0142</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0220</b>

**3.4 Utility Trenching - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1234	0.1677	2.5000e-004		7.6600e-003	7.6600e-003		7.0500e-003	7.0500e-003	0.0000	21.7102	21.7102	7.0200e-003	0.0000	21.8857
<b>Total</b>	<b>0.0142</b>	<b>0.1234</b>	<b>0.1677</b>	<b>2.5000e-004</b>		<b>7.6600e-003</b>	<b>7.6600e-003</b>		<b>7.0500e-003</b>	<b>7.0500e-003</b>	<b>0.0000</b>	<b>21.7102</b>	<b>21.7102</b>	<b>7.0200e-003</b>	<b>0.0000</b>	<b>21.8857</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	3.6000e-004	5.4400e-003	2.0000e-005	2.2000e-003	1.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.6497	1.6497	4.0000e-005	4.0000e-005	1.6618
<b>Total</b>	<b>5.3000e-004</b>	<b>3.6000e-004</b>	<b>5.4400e-003</b>	<b>2.0000e-005</b>	<b>2.2000e-003</b>	<b>1.0000e-005</b>	<b>2.2100e-003</b>	<b>5.8000e-004</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>1.6497</b>	<b>1.6497</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.6618</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1234	0.1677	2.5000e-004		7.6600e-003	7.6600e-003		7.0500e-003	7.0500e-003	0.0000	21.7101	21.7101	7.0200e-003	0.0000	21.8857
<b>Total</b>	<b>0.0142</b>	<b>0.1234</b>	<b>0.1677</b>	<b>2.5000e-004</b>		<b>7.6600e-003</b>	<b>7.6600e-003</b>		<b>7.0500e-003</b>	<b>7.0500e-003</b>	<b>0.0000</b>	<b>21.7101</b>	<b>21.7101</b>	<b>7.0200e-003</b>	<b>0.0000</b>	<b>21.8857</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	3.6000e-004	5.4400e-003	2.0000e-005	2.0200e-003	1.0000e-005	2.0400e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.6497	1.6497	4.0000e-005	4.0000e-005	1.6618
<b>Total</b>	<b>5.3000e-004</b>	<b>3.6000e-004</b>	<b>5.4400e-003</b>	<b>2.0000e-005</b>	<b>2.0200e-003</b>	<b>1.0000e-005</b>	<b>2.0400e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>1.6497</b>	<b>1.6497</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.6618</b>

**3.5 Fine Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4142	0.0000	0.4142	0.1644	0.0000	0.1644	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1448	1.4570	1.2475	2.7900e-003		0.0601	0.0601		0.0553	0.0553	0.0000	245.3379	245.3379	0.0794	0.0000	247.3215
<b>Total</b>	<b>0.1448</b>	<b>1.4570</b>	<b>1.2475</b>	<b>2.7900e-003</b>	<b>0.4142</b>	<b>0.0601</b>	<b>0.4743</b>	<b>0.1644</b>	<b>0.0553</b>	<b>0.2197</b>	<b>0.0000</b>	<b>245.3379</b>	<b>245.3379</b>	<b>0.0794</b>	<b>0.0000</b>	<b>247.3215</b>

Phase 1 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0264	0.0105	1.3000e-004	4.5400e-003	1.4000e-004	4.6700e-003	1.3100e-003	1.3000e-004	1.4400e-003	0.0000	12.7049	12.7049	7.7000e-004	1.8300e-003	13.2702
Worker	2.3900e-003	1.6300e-003	0.0245	8.0000e-005	9.8800e-003	5.0000e-005	9.9300e-003	2.6200e-003	5.0000e-005	2.6700e-003	0.0000	7.4237	7.4237	1.6000e-004	1.7000e-004	7.4782
<b>Total</b>	<b>3.0900e-003</b>	<b>0.0280</b>	<b>0.0350</b>	<b>2.1000e-004</b>	<b>0.0144</b>	<b>1.9000e-004</b>	<b>0.0146</b>	<b>3.9300e-003</b>	<b>1.8000e-004</b>	<b>4.1100e-003</b>	<b>0.0000</b>	<b>20.1286</b>	<b>20.1286</b>	<b>9.3000e-004</b>	<b>2.0000e-003</b>	<b>20.7484</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1771	0.0000	0.1771	0.0703	0.0000	0.0703	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1448	1.4570	1.2475	2.7900e-003		0.0601	0.0601		0.0553	0.0553	0.0000	245.3376	245.3376	0.0794	0.0000	247.3212
<b>Total</b>	<b>0.1448</b>	<b>1.4570</b>	<b>1.2475</b>	<b>2.7900e-003</b>	<b>0.1771</b>	<b>0.0601</b>	<b>0.2371</b>	<b>0.0703</b>	<b>0.0553</b>	<b>0.1256</b>	<b>0.0000</b>	<b>245.3376</b>	<b>245.3376</b>	<b>0.0794</b>	<b>0.0000</b>	<b>247.3212</b>

Phase 1 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0264	0.0105	1.3000e-004	4.2500e-003	1.4000e-004	4.3800e-003	1.2400e-003	1.3000e-004	1.3700e-003	0.0000	12.7049	12.7049	7.7000e-004	1.8300e-003	13.2702
Worker	2.3900e-003	1.6300e-003	0.0245	8.0000e-005	9.1100e-003	5.0000e-005	9.1600e-003	2.4300e-003	5.0000e-005	2.4800e-003	0.0000	7.4237	7.4237	1.6000e-004	1.7000e-004	7.4782
<b>Total</b>	<b>3.0900e-003</b>	<b>0.0280</b>	<b>0.0350</b>	<b>2.1000e-004</b>	<b>0.0134</b>	<b>1.9000e-004</b>	<b>0.0135</b>	<b>3.6700e-003</b>	<b>1.8000e-004</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>20.1286</b>	<b>20.1286</b>	<b>9.3000e-004</b>	<b>2.0000e-003</b>	<b>20.7484</b>

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0455	0.4381	0.6728	1.0500e-003		0.0216	0.0216		0.0198	0.0198	0.0000	92.1220	92.1220	0.0298	0.0000	92.8669
Paving	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0469</b>	<b>0.4381</b>	<b>0.6728</b>	<b>1.0500e-003</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0198</b>	<b>0.0198</b>	<b>0.0000</b>	<b>92.1220</b>	<b>92.1220</b>	<b>0.0298</b>	<b>0.0000</b>	<b>92.8669</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.2500e-003	0.0188	6.0000e-005	7.5700e-003	4.0000e-005	7.6100e-003	2.0100e-003	3.0000e-005	2.0500e-003	0.0000	5.6915	5.6915	1.2000e-004	1.3000e-004	5.7333
<b>Total</b>	<b>1.8400e-003</b>	<b>1.2500e-003</b>	<b>0.0188</b>	<b>6.0000e-005</b>	<b>7.5700e-003</b>	<b>4.0000e-005</b>	<b>7.6100e-003</b>	<b>2.0100e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>5.6915</b>	<b>5.6915</b>	<b>1.2000e-004</b>	<b>1.3000e-004</b>	<b>5.7333</b>

Phase 1 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0455	0.4381	0.6728	1.0500e-003		0.0216	0.0216		0.0198	0.0198	0.0000	92.1219	92.1219	0.0298	0.0000	92.8668
Paving	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0469</b>	<b>0.4381</b>	<b>0.6728</b>	<b>1.0500e-003</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0198</b>	<b>0.0198</b>	<b>0.0000</b>	<b>92.1219</b>	<b>92.1219</b>	<b>0.0298</b>	<b>0.0000</b>	<b>92.8668</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.2500e-003	0.0188	6.0000e-005	6.9800e-003	4.0000e-005	7.0200e-003	1.8700e-003	3.0000e-005	1.9000e-003	0.0000	5.6915	5.6915	1.2000e-004	1.3000e-004	5.7333
<b>Total</b>	<b>1.8400e-003</b>	<b>1.2500e-003</b>	<b>0.0188</b>	<b>6.0000e-005</b>	<b>6.9800e-003</b>	<b>4.0000e-005</b>	<b>7.0200e-003</b>	<b>1.8700e-003</b>	<b>3.0000e-005</b>	<b>1.9000e-003</b>	<b>0.0000</b>	<b>5.6915</b>	<b>5.6915</b>	<b>1.2000e-004</b>	<b>1.3000e-004</b>	<b>5.7333</b>

Phase 1 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Finishing/Landscaping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5200e-003	0.0656	0.1013	1.4000e-004		3.0100e-003	3.0100e-003		2.7700e-003	2.7700e-003	0.0000	12.4055	12.4055	4.0100e-003	0.0000	12.5058
<b>Total</b>	<b>6.5200e-003</b>	<b>0.0656</b>	<b>0.1013</b>	<b>1.4000e-004</b>		<b>3.0100e-003</b>	<b>3.0100e-003</b>		<b>2.7700e-003</b>	<b>2.7700e-003</b>	<b>0.0000</b>	<b>12.4055</b>	<b>12.4055</b>	<b>4.0100e-003</b>	<b>0.0000</b>	<b>12.5058</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.5000e-004	3.7100e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.0000e-004	0.0000	1.1259	1.1259	2.0000e-005	3.0000e-005	1.1342
<b>Total</b>	<b>3.6000e-004</b>	<b>2.5000e-004</b>	<b>3.7100e-003</b>	<b>1.0000e-005</b>	<b>1.5000e-003</b>	<b>1.0000e-005</b>	<b>1.5100e-003</b>	<b>4.0000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.1259</b>	<b>1.1259</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1342</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5200e-003	0.0656	0.1013	1.4000e-004		3.0100e-003	3.0100e-003		2.7700e-003	2.7700e-003	0.0000	12.4055	12.4055	4.0100e-003	0.0000	12.5058
<b>Total</b>	<b>6.5200e-003</b>	<b>0.0656</b>	<b>0.1013</b>	<b>1.4000e-004</b>		<b>3.0100e-003</b>	<b>3.0100e-003</b>		<b>2.7700e-003</b>	<b>2.7700e-003</b>	<b>0.0000</b>	<b>12.4055</b>	<b>12.4055</b>	<b>4.0100e-003</b>	<b>0.0000</b>	<b>12.5058</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.5000e-004	3.7100e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1259	1.1259	2.0000e-005	3.0000e-005	1.1342
<b>Total</b>	<b>3.6000e-004</b>	<b>2.5000e-004</b>	<b>3.7100e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.1259</b>	<b>1.1259</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1342</b>

**3.8 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1229	1.1226	1.3499	2.2500e-003		0.0512	0.0512		0.0482	0.0482	0.0000	193.5940	193.5940	0.0458	0.0000	194.7385
<b>Total</b>	<b>0.1229</b>	<b>1.1226</b>	<b>1.3499</b>	<b>2.2500e-003</b>		<b>0.0512</b>	<b>0.0512</b>		<b>0.0482</b>	<b>0.0482</b>	<b>0.0000</b>	<b>193.5940</b>	<b>193.5940</b>	<b>0.0458</b>	<b>0.0000</b>	<b>194.7385</b>



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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.1834	0.0733	8.9000e-004	0.0316	9.4000e-004	0.0325	9.1000e-003	9.0000e-004	0.0100	0.0000	88.4046	88.4046	5.3900e-003	0.0128	92.3381
Worker	0.0524	0.0357	0.5363	1.7400e-003	0.2163	1.0700e-003	0.2174	0.0575	9.9000e-004	0.0584	0.0000	162.5464	162.5464	3.4800e-003	3.7100e-003	163.7401
<b>Total</b>	<b>0.0573</b>	<b>0.2191</b>	<b>0.6096</b>	<b>2.6300e-003</b>	<b>0.2479</b>	<b>2.0100e-003</b>	<b>0.2499</b>	<b>0.0666</b>	<b>1.8900e-003</b>	<b>0.0685</b>	<b>0.0000</b>	<b>250.9510</b>	<b>250.9510</b>	<b>8.8700e-003</b>	<b>0.0165</b>	<b>256.0782</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1229	1.1226	1.3499	2.2500e-003		0.0512	0.0512		0.0482	0.0482	0.0000	193.5938	193.5938	0.0458	0.0000	194.7383
<b>Total</b>	<b>0.1229</b>	<b>1.1226</b>	<b>1.3499</b>	<b>2.2500e-003</b>		<b>0.0512</b>	<b>0.0512</b>		<b>0.0482</b>	<b>0.0482</b>	<b>0.0000</b>	<b>193.5938</b>	<b>193.5938</b>	<b>0.0458</b>	<b>0.0000</b>	<b>194.7383</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.1834	0.0733	8.9000e-004	0.0296	9.4000e-004	0.0305	8.6100e-003	9.0000e-004	9.5100e-003	0.0000	88.4046	88.4046	5.3900e-003	0.0128	92.3381
Worker	0.0524	0.0357	0.5363	1.7400e-003	0.1995	1.0700e-003	0.2005	0.0533	9.9000e-004	0.0543	0.0000	162.5464	162.5464	3.4800e-003	3.7100e-003	163.7401
<b>Total</b>	<b>0.0573</b>	<b>0.2191</b>	<b>0.6096</b>	<b>2.6300e-003</b>	<b>0.2290</b>	<b>2.0100e-003</b>	<b>0.2310</b>	<b>0.0619</b>	<b>1.8900e-003</b>	<b>0.0638</b>	<b>0.0000</b>	<b>250.9510</b>	<b>250.9510</b>	<b>8.8700e-003</b>	<b>0.0165</b>	<b>256.0782</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0738	0.6734	0.8686	1.4600e-003		0.0285	0.0285		0.0268	0.0268	0.0000	125.2365	125.2365	0.0294	0.0000	125.9725
<b>Total</b>	<b>0.0738</b>	<b>0.6734</b>	<b>0.8686</b>	<b>1.4600e-003</b>		<b>0.0285</b>	<b>0.0285</b>		<b>0.0268</b>	<b>0.0268</b>	<b>0.0000</b>	<b>125.2365</b>	<b>125.2365</b>	<b>0.0294</b>	<b>0.0000</b>	<b>125.9725</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1200e-003	0.1180	0.0472	5.6000e-004	0.0204	6.1000e-004	0.0210	5.8900e-003	5.9000e-004	6.4800e-003	0.0000	56.1023	56.1023	3.5300e-003	8.1200e-003	58.6114
Worker	0.0320	0.0209	0.3264	1.0900e-003	0.1399	6.6000e-004	0.1406	0.0372	6.1000e-004	0.0378	0.0000	102.5569	102.5569	2.0400e-003	2.2600e-003	103.2811
<b>Total</b>	<b>0.0352</b>	<b>0.1390</b>	<b>0.3736</b>	<b>1.6500e-003</b>	<b>0.1603</b>	<b>1.2700e-003</b>	<b>0.1616</b>	<b>0.0430</b>	<b>1.2000e-003</b>	<b>0.0442</b>	<b>0.0000</b>	<b>158.6592</b>	<b>158.6592</b>	<b>5.5700e-003</b>	<b>0.0104</b>	<b>161.8924</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0738	0.6734	0.8686	1.4600e-003		0.0285	0.0285		0.0268	0.0268	0.0000	125.2364	125.2364	0.0294	0.0000	125.9723
<b>Total</b>	<b>0.0738</b>	<b>0.6734</b>	<b>0.8686</b>	<b>1.4600e-003</b>		<b>0.0285</b>	<b>0.0285</b>		<b>0.0268</b>	<b>0.0268</b>	<b>0.0000</b>	<b>125.2364</b>	<b>125.2364</b>	<b>0.0294</b>	<b>0.0000</b>	<b>125.9723</b>

Phase 1 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1200e-003	0.1180	0.0472	5.6000e-004	0.0191	6.1000e-004	0.0197	5.5700e-003	5.9000e-004	6.1600e-003	0.0000	56.1023	56.1023	3.5300e-003	8.1200e-003	58.6114
Worker	0.0320	0.0209	0.3264	1.0900e-003	0.1290	6.6000e-004	0.1297	0.0345	6.1000e-004	0.0351	0.0000	102.5569	102.5569	2.0400e-003	2.2600e-003	103.2811
<b>Total</b>	<b>0.0352</b>	<b>0.1390</b>	<b>0.3736</b>	<b>1.6500e-003</b>	<b>0.1481</b>	<b>1.2700e-003</b>	<b>0.1494</b>	<b>0.0400</b>	<b>1.2000e-003</b>	<b>0.0412</b>	<b>0.0000</b>	<b>158.6592</b>	<b>158.6592</b>	<b>5.5700e-003</b>	<b>0.0104</b>	<b>161.8924</b>

**3.9 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6900e-003	0.0516	0.0814	1.3000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	11.4896	11.4896	6.3000e-004	0.0000	11.5053
<b>Total</b>	<b>1.6441</b>	<b>0.0516</b>	<b>0.0814</b>	<b>1.3000e-004</b>		<b>2.3200e-003</b>	<b>2.3200e-003</b>		<b>2.3200e-003</b>	<b>2.3200e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>11.5053</b>

Phase 1 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3200e-003	3.4700e-003	0.0542	1.8000e-004	0.0232	1.1000e-004	0.0233	6.1700e-003	1.0000e-004	6.2700e-003	0.0000	17.0204	17.0204	3.4000e-004	3.7000e-004	17.1406
<b>Total</b>	<b>5.3200e-003</b>	<b>3.4700e-003</b>	<b>0.0542</b>	<b>1.8000e-004</b>	<b>0.0232</b>	<b>1.1000e-004</b>	<b>0.0233</b>	<b>6.1700e-003</b>	<b>1.0000e-004</b>	<b>6.2700e-003</b>	<b>0.0000</b>	<b>17.0204</b>	<b>17.0204</b>	<b>3.4000e-004</b>	<b>3.7000e-004</b>	<b>17.1406</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6900e-003	0.0516	0.0814	1.3000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	11.4896	11.4896	6.3000e-004	0.0000	11.5053
<b>Total</b>	<b>1.6441</b>	<b>0.0516</b>	<b>0.0814</b>	<b>1.3000e-004</b>		<b>2.3200e-003</b>	<b>2.3200e-003</b>		<b>2.3200e-003</b>	<b>2.3200e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>11.5053</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3200e-003	3.4700e-003	0.0542	1.8000e-004	0.0214	1.1000e-004	0.0215	5.7200e-003	1.0000e-004	5.8200e-003	0.0000	17.0204	17.0204	3.4000e-004	3.7000e-004	17.1406
<b>Total</b>	<b>5.3200e-003</b>	<b>3.4700e-003</b>	<b>0.0542</b>	<b>1.8000e-004</b>	<b>0.0214</b>	<b>1.1000e-004</b>	<b>0.0215</b>	<b>5.7200e-003</b>	<b>1.0000e-004</b>	<b>5.8200e-003</b>	<b>0.0000</b>	<b>17.0204</b>	<b>17.0204</b>	<b>3.4000e-004</b>	<b>3.7000e-004</b>	<b>17.1406</b>

**Phase 1 Construction**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rough Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Trenchers	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	6	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	5	No Change	0.00
Scrapers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	12	No Change	0.00

**Phase 1 Construction**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Welders	Diesel	No Change	0	No Change	0.00
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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Air Compressors	7.69000E-003	5.15500E-002	8.14100E-002	1.30000E-004	2.32000E-003	2.32000E-003	0.00000E+000	1.14896E+001	1.14896E+001	6.30000E-004	0.00000E+000	1.15053E+001
Cranes	3.90200E-002	4.05720E-001	2.11710E-001	6.90000E-004	1.70200E-002	1.56500E-002	0.00000E+000	6.09922E+001	6.09922E+001	1.97300E-002	0.00000E+000	6.14854E+001
Excavators	4.23700E-002	3.36340E-001	7.54450E-001	1.20000E-003	1.65300E-002	1.52100E-002	0.00000E+000	1.04937E+002	1.04937E+002	3.39400E-002	0.00000E+000	1.05786E+002
Forklifts	3.76700E-002	3.53930E-001	4.69060E-001	6.30000E-004	1.98800E-002	1.82900E-002	0.00000E+000	5.53952E+001	5.53952E+001	1.79200E-002	0.00000E+000	5.58431E+001
Generator Sets	3.81900E-002	3.41820E-001	5.03550E-001	9.00000E-004	1.44000E-002	1.44000E-002	0.00000E+000	7.77160E+001	7.77160E+001	3.04000E-003	0.00000E+000	7.77920E+001
Graders	3.30000E-002	3.91760E-001	1.51050E-001	6.00000E-004	1.27000E-002	1.16800E-002	0.00000E+000	5.25957E+001	5.25957E+001	1.70100E-002	0.00000E+000	5.30210E+001
Pavers	1.68900E-002	1.60250E-001	2.66150E-001	4.30000E-004	7.48000E-003	6.88000E-003	0.00000E+000	3.79883E+001	3.79883E+001	1.22900E-002	0.00000E+000	3.82954E+001
Paving Equipment	1.51600E-002	1.37640E-001	2.36430E-001	3.70000E-004	6.65000E-003	6.12000E-003	0.00000E+000	3.29225E+001	3.29225E+001	1.06500E-002	0.00000E+000	3.31887E+001
Rollers	1.34100E-002	1.40240E-001	1.70210E-001	2.40000E-004	7.42000E-003	6.83000E-003	0.00000E+000	2.12113E+001	2.12113E+001	6.86000E-003	0.00000E+000	2.13828E+001
Rubber Tired Dozers	1.09820E-001	1.13681E+000	4.96920E-001	1.36000E-003	5.12000E-002	4.71100E-002	0.00000E+000	1.19663E+002	1.19663E+002	3.87000E-002	0.00000E+000	1.20630E+002
Scrapers	1.39250E-001	1.42995E+000	1.09074E+000	2.75000E-003	5.63500E-002	5.18500E-002	0.00000E+000	2.41285E+002	2.41285E+002	7.80400E-002	0.00000E+000	2.43236E+002
Tractors/Loaders/B Backhoes	9.72400E-002	9.81240E-001	1.51703E+000	2.12000E-003	4.48400E-002	4.12600E-002	0.00000E+000	1.85962E+002	1.85962E+002	6.01400E-002	0.00000E+000	1.87465E+002
Trenchers	1.37700E-002	1.28120E-001	1.04200E-001	1.40000E-004	8.87000E-003	8.16000E-003	0.00000E+000	1.19317E+001	1.19317E+001	3.86000E-003	0.00000E+000	1.20282E+001
Welders	3.15600E-002	1.87760E-001	2.28110E-001	3.50000E-004	6.17000E-003	6.17000E-003	0.00000E+000	2.58803E+001	2.58803E+001	2.57000E-003	0.00000E+000	2.59446E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Air Compressors	7.69000E-003	5.15500E-002	8.14100E-002	1.30000E-004	2.32000E-003	2.32000E-003	0.00000E+000	1.14896E+001	1.14896E+001	6.30000E-004	0.00000E+000	1.15053E+001
Cranes	3.90200E-002	4.05720E-001	2.11710E-001	6.90000E-004	1.70200E-002	1.56500E-002	0.00000E+000	6.09921E+001	6.09921E+001	1.97300E-002	0.00000E+000	6.14853E+001
Excavators	4.23700E-002	3.36340E-001	7.54440E-001	1.20000E-003	1.65300E-002	1.52100E-002	0.00000E+000	1.04937E+002	1.04937E+002	3.39400E-002	0.00000E+000	1.05785E+002
Forklifts	3.76700E-002	3.53930E-001	4.69060E-001	6.30000E-004	1.98800E-002	1.82900E-002	0.00000E+000	5.53951E+001	5.53951E+001	1.79200E-002	0.00000E+000	5.58430E+001
Generator Sets	3.81900E-002	3.41820E-001	5.03550E-001	9.00000E-004	1.44000E-002	1.44000E-002	0.00000E+000	7.77159E+001	7.77159E+001	3.04000E-003	0.00000E+000	7.77919E+001
Graders	3.30000E-002	3.91760E-001	1.51050E-001	6.00000E-004	1.27000E-002	1.16800E-002	0.00000E+000	5.25957E+001	5.25957E+001	1.70100E-002	0.00000E+000	5.30209E+001
Pavers	1.68900E-002	1.60250E-001	2.66150E-001	4.30000E-004	7.48000E-003	6.88000E-003	0.00000E+000	3.79882E+001	3.79882E+001	1.22900E-002	0.00000E+000	3.82954E+001
Paving Equipment	1.51600E-002	1.37640E-001	2.36420E-001	3.70000E-004	6.65000E-003	6.12000E-003	0.00000E+000	3.29225E+001	3.29225E+001	1.06500E-002	0.00000E+000	3.31887E+001

**Phase 1 Construction**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Rollers	1.34100E-002	1.40240E-001	1.70210E-001	2.40000E-004	7.42000E-003	6.83000E-003	0.00000E+000	2.12112E+001	2.12112E+001	6.86000E-003	0.00000E+000	2.13827E+001
Rubber Tired Dozers	1.09820E-001	1.13681E+000	4.96920E-001	1.36000E-003	5.12000E-002	4.71100E-002	0.00000E+000	1.19662E+002	1.19662E+002	3.87000E-002	0.00000E+000	1.20630E+002
Scrapers	1.39250E-001	1.42994E+000	1.09074E+000	2.75000E-003	5.63500E-002	5.18500E-002	0.00000E+000	2.41285E+002	2.41285E+002	7.80400E-002	0.00000E+000	2.43236E+002
Tractors/Loaders/Bac khoes	9.72400E-002	9.81240E-001	1.51703E+000	2.12000E-003	4.48400E-002	4.12500E-002	0.00000E+000	1.85961E+002	1.85961E+002	6.01400E-002	0.00000E+000	1.87465E+002
Trenchers	1.37700E-002	1.28120E-001	1.04200E-001	1.40000E-004	8.87000E-003	8.16000E-003	0.00000E+000	1.19317E+001	1.19317E+001	3.86000E-003	0.00000E+000	1.20282E+001
Welders	3.15600E-002	1.87760E-001	2.28110E-001	3.50000E-004	6.17000E-003	6.17000E-003	0.00000E+000	2.58803E+001	2.58803E+001	2.57000E-003	0.00000E+000	2.59446E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.70349E-007	8.70349E-007	0.00000E+000	0.00000E+000	8.69164E-007
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14769E-006	1.14769E-006	0.00000E+000	0.00000E+000	1.13848E-006
Excavators	0.00000E+000	0.00000E+000	1.32547E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23884E-006	1.23884E-006	0.00000E+000	0.00000E+000	1.22890E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26365E-006	1.26365E-006	0.00000E+000	0.00000E+000	1.07444E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15806E-006	1.15806E-006	0.00000E+000	0.00000E+000	1.15693E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14078E-006	1.14078E-006	0.00000E+000	0.00000E+000	1.13163E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.31620E-006	1.31620E-006	0.00000E+000	0.00000E+000	1.04451E-006
Paving Equipment	0.00000E+000	0.00000E+000	4.22958E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21497E-006	1.21497E-006	0.00000E+000	0.00000E+000	1.20523E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.42896E-007	9.42896E-007	0.00000E+000	0.00000E+000	1.40300E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16996E-006	1.16996E-006	0.00000E+000	0.00000E+000	1.16057E-006
Scrapers	0.00000E+000	6.99325E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20190E-006	1.20190E-006	0.00000E+000	0.00000E+000	1.19226E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.42365E-004	0.00000E+000	1.18304E-006	1.18304E-006	0.00000E+000	0.00000E+000	1.22690E-006
Trenchers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.67621E-006	1.67621E-006	0.00000E+000	0.00000E+000	8.31382E-007
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15918E-006	1.15918E-006	0.00000E+000	0.00000E+000	1.15631E-006

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction 0.00

**Phase 1 Construction**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.02	0.01	0.02	0.01	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.41	0.11	0.38	0.10	0.08	0.07
Fine Grading	Fugitive Dust	0.41	0.16	0.18	0.07	0.57	0.57
Fine Grading	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Finishing/Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Rough Grading	Fugitive Dust	0.56	0.18	0.24	0.08	0.57	0.57
Rough Grading	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Site Preparation	Fugitive Dust	0.45	0.23	0.19	0.10	0.57	0.57
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.07	0.06
Utility Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	Roads	0.00	0.00	0.00	0.00	0.08	0.06



# CalEEMod Output: Phase 2 Construction

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Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 2 Construction  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	105.00	Dwelling Unit	25.20	189,000.00	300
Condo/Townhouse	507.00	Dwelling Unit	49.00	507,000.00	1450
City Park	13.00	Acre	13.00	566,280.00	0
Parking Lot	53.60	1000sqft	1.23	53,600.00	0
Other Asphalt Surfaces	1.20	Acre	1.20	52,272.00	0
Other Non-Asphalt Surfaces	5.27	Acre	5.27	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2027

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - See assumption in the AQ/GHG Appendix of the DEIR.
- Construction Phase - See
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.

Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	110.00	142.00
tblConstructionPhase	NumDays	1,550.00	423.00
tblConstructionPhase	NumDays	155.00	139.00
tblConstructionPhase	NumDays	110.00	143.00
tblConstructionPhase	NumDays	60.00	70.00
tblConstructionPhase	NumDays	155.00	141.00
tblConstructionPhase	PhaseEndDate	9/27/2032	7/31/2027
tblConstructionPhase	PhaseEndDate	11/24/2031	7/31/2027
tblConstructionPhase	PhaseEndDate	12/15/2025	7/20/2025
tblConstructionPhase	PhaseEndDate	4/26/2032	3/26/2026
tblConstructionPhase	PhaseEndDate	5/12/2025	1/6/2025
tblConstructionPhase	PhaseStartDate	4/27/2032	1/14/2027
tblConstructionPhase	PhaseStartDate	12/16/2025	12/17/2025
tblConstructionPhase	PhaseStartDate	5/13/2025	1/7/2025
tblConstructionPhase	PhaseStartDate	11/25/2031	9/9/2025
tblConstructionPhase	PhaseStartDate	2/18/2025	10/1/2024
tblLandUse	LandUseSquareFeet	229,561.20	0.00
tblLandUse	LotAcreage	34.09	25.20
tblLandUse	LotAcreage	31.69	49.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7165	27.4847	18.9647	0.0411	19.9094	1.2318	21.1412	10.1705	1.1333	11.3039	0.0000	4,013.0949	4,013.0949	1.2057	0.0259	4,050.9479
2025	6.6054	62.4824	63.5433	0.1477	19.9094	2.5877	21.7360	10.1705	2.3809	11.1727	0.0000	14,882.1307	14,882.1307	4.3648	0.6132	15,108.4780
2026	4.2968	29.4014	53.2774	0.1428	8.9832	1.0681	10.0513	2.4078	0.9948	3.4026	0.0000	14,669.9621	14,669.9621	1.7366	0.5992	14,891.9288
2027	34.4355	20.6644	40.3177	0.1274	10.3133	0.6507	10.9641	2.7606	0.6149	3.3755	0.0000	13,291.6521	13,291.6521	0.9506	0.6052	13,495.7806
Maximum	34.4355	62.4824	63.5433	0.1477	19.9094	2.5877	21.7360	10.1705	2.3809	11.3039	0.0000	14,882.1307	14,882.1307	4.3648	0.6132	15,108.4780

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7165	27.4847	18.9647	0.0411	8.6367	1.2318	9.8685	4.3822	1.1333	5.5156	0.0000	4,013.0949	4,013.0949	1.2057	0.0259	4,050.9479
2025	6.6054	62.4824	63.5433	0.1477	8.6367	2.5877	11.1428	4.3822	2.3809	5.6925	0.0000	14,882.1307	14,882.1307	4.3648	0.6132	15,108.4780
2026	4.2968	29.4014	53.2774	0.1428	8.2961	1.0681	9.3643	2.2392	0.9948	3.2340	0.0000	14,669.9621	14,669.9621	1.7366	0.5992	14,891.9288
2027	34.4355	20.6644	40.3177	0.1274	9.5222	0.6507	10.1729	2.5664	0.6149	3.1813	0.0000	13,291.6521	13,291.6521	0.9506	0.6052	13,495.7806
Maximum	34.4355	62.4824	63.5433	0.1477	9.5222	2.5877	11.1428	4.3822	2.3809	5.6925	0.0000	14,882.1307	14,882.1307	4.3648	0.6132	15,108.4780

Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	40.64	0.00	36.54	46.80	0.00	39.76	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	1/6/2025	5	70	
2	Rough Grading	Grading	1/7/2025	7/20/2025	5	139	
3	Utility Trenching	Trenching	3/21/2025	9/7/2025	5	121	
4	Fine Grading	Grading	6/2/2025	12/15/2025	5	141	
5	Paving	Paving	9/9/2025	3/26/2026	5	143	
6	Finishing/Landscaping	Trenching	10/29/2025	5/13/2026	5	141	
7	Building Construction	Building Construction	12/17/2025	7/31/2027	5	423	
8	Architectural Coating	Architectural Coating	1/14/2027	7/31/2027	5	142	

Acres of Grading (Site Preparation Phase): 105

Acres of Grading (Grading Phase): 417

Acres of Paving: 7.7

Residential Indoor: 1,409,400; Residential Outdoor: 469,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,352

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fine Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Fine Grading	Graders	1	8.00	187	0.41
Rough Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Rough Grading	Graders	1	8.00	187	0.41

Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	685.00	176.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	137.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Clean Paved Roads

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9600e-003	0.2795	0.1154	1.4100e-003	0.0512	1.5100e-003	0.0527	0.0147	1.4400e-003	0.0162		155.5091	155.5091	9.4900e-003	0.0224	162.4240
Worker	0.0477	0.0292	0.5137	1.6400e-003	0.2012	9.8000e-004	0.2022	0.0534	9.0000e-004	0.0543		169.5759	169.5759	3.4200e-003	3.4700e-003	170.6946
<b>Total</b>	<b>0.0556</b>	<b>0.3087</b>	<b>0.6291</b>	<b>3.0500e-003</b>	<b>0.2524</b>	<b>2.4900e-003</b>	<b>0.2548</b>	<b>0.0681</b>	<b>2.3400e-003</b>	<b>0.0704</b>		<b>325.0850</b>	<b>325.0850</b>	<b>0.0129</b>	<b>0.0259</b>	<b>333.1185</b>

Mitigated Construction On-Site



Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.2294</b>	<b>9.6327</b>	<b>4.3188</b>	<b>1.1310</b>	<b>5.4498</b>	<b>0.0000</b>	<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9600e-003	0.2795	0.1154	1.4100e-003	0.0479	1.5100e-003	0.0494	0.0139	1.4400e-003	0.0154		155.5091	155.5091	9.4900e-003	0.0224	162.4240
Worker	0.0477	0.0292	0.5137	1.6400e-003	0.1855	9.8000e-004	0.1864	0.0495	9.0000e-004	0.0504		169.5759	169.5759	3.4200e-003	3.4700e-003	170.6946
<b>Total</b>	<b>0.0556</b>	<b>0.3087</b>	<b>0.6291</b>	<b>3.0500e-003</b>	<b>0.2333</b>	<b>2.4900e-003</b>	<b>0.2358</b>	<b>0.0634</b>	<b>2.3400e-003</b>	<b>0.0658</b>		<b>325.0850</b>	<b>325.0850</b>	<b>0.0129</b>	<b>0.0259</b>	<b>333.1185</b>

**3.2 Site Preparation - 2025**

**Unmitigated Construction On-Site**

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

Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8400e-003	0.2782	0.1149	1.3800e-003	0.0512	1.5100e-003	0.0527	0.0147	1.4500e-003	0.0162		152.5978	152.5978	9.6100e-003	0.0221	159.4184
Worker	0.0450	0.0264	0.4833	1.5900e-003	0.2012	9.4000e-004	0.2021	0.0534	8.6000e-004	0.0542		165.4292	165.4292	3.1100e-003	3.2600e-003	166.4788
<b>Total</b>	<b>0.0529</b>	<b>0.3046</b>	<b>0.5982</b>	<b>2.9700e-003</b>	<b>0.2524</b>	<b>2.4500e-003</b>	<b>0.2548</b>	<b>0.0681</b>	<b>2.3100e-003</b>	<b>0.0704</b>		<b>318.0270</b>	<b>318.0270</b>	<b>0.0127</b>	<b>0.0253</b>	<b>325.8973</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.0868</b>	<b>9.4902</b>	<b>4.3188</b>	<b>0.9999</b>	<b>5.3187</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

Phase 2 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8400e-003	0.2782	0.1149	1.3800e-003	0.0479	1.5100e-003	0.0494	0.0139	1.4500e-003	0.0154		152.5978	152.5978	9.6100e-003	0.0221	159.4184
Worker	0.0450	0.0264	0.4833	1.5900e-003	0.1855	9.4000e-004	0.1864	0.0495	8.6000e-004	0.0504		165.4292	165.4292	3.1100e-003	3.2600e-003	166.4788
<b>Total</b>	<b>0.0529</b>	<b>0.3046</b>	<b>0.5982</b>	<b>2.9700e-003</b>	<b>0.2333</b>	<b>2.4500e-003</b>	<b>0.2358</b>	<b>0.0634</b>	<b>2.3100e-003</b>	<b>0.0657</b>		<b>318.0270</b>	<b>318.0270</b>	<b>0.0127</b>	<b>0.0253</b>	<b>325.8973</b>

**3.3 Rough Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0157	0.5563	0.2298	2.7700e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		305.1956	305.1956	0.0192	0.0442	318.8369
Worker	0.0500	0.0294	0.5369	1.7600e-003	0.2236	1.0400e-003	0.2246	0.0593	9.6000e-004	0.0603		183.8102	183.8102	3.4500e-003	3.6200e-003	184.9765
<b>Total</b>	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.5300e-003</b>	<b>0.3259</b>	<b>4.0700e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8600e-003</b>	<b>0.0926</b>		<b>489.0058</b>	<b>489.0058</b>	<b>0.0227</b>	<b>0.0478</b>	<b>503.8134</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

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

Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0157	0.5563	0.2298	2.7700e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307	305.1956	305.1956	0.0192	0.0442	318.8369	
Worker	0.0500	0.0294	0.5369	1.7600e-003	0.2061	1.0400e-003	0.2071	0.0550	9.6000e-004	0.0560	183.8102	183.8102	3.4500e-003	3.6200e-003	184.9765	
<b>Total</b>	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.5300e-003</b>	<b>0.3018</b>	<b>4.0700e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8600e-003</b>	<b>0.0867</b>	<b>489.0058</b>	<b>489.0058</b>	<b>0.0227</b>	<b>0.0478</b>	<b>503.8134</b>	

**3.4 Utility Trenching - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6515	5.4135	9.1328	0.0138		0.3174	0.3174		0.2920	0.2920		1,334.6610	1,334.6610	0.4317		1,345.4524
<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>		<b>0.3174</b>	<b>0.3174</b>		<b>0.2920</b>	<b>0.2920</b>		<b>1,334.6610</b>	<b>1,334.6610</b>	<b>0.4317</b>		<b>1,345.4524</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0117	0.2148	7.1000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.8000e-004	0.0241		73.5241	73.5241	1.3800e-003	1.4500e-003	73.9906
<b>Total</b>	<b>0.0200</b>	<b>0.0117</b>	<b>0.2148</b>	<b>7.1000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>73.5241</b>	<b>73.5241</b>	<b>1.3800e-003</b>	<b>1.4500e-003</b>	<b>73.9906</b>

Phase 2 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6515	5.4135	9.1328	0.0138		0.3174	0.3174		0.2920	0.2920	0.0000	1,334.6610	1,334.6610	0.4317		1,345.4524
<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>		<b>0.3174</b>	<b>0.3174</b>		<b>0.2920</b>	<b>0.2920</b>	<b>0.0000</b>	<b>1,334.6610</b>	<b>1,334.6610</b>	<b>0.4317</b>		<b>1,345.4524</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0117	0.2148	7.1000e-004	0.0824	4.2000e-004	0.0828	0.0220	3.8000e-004	0.0224		73.5241	73.5241	1.3800e-003	1.4500e-003	73.9906
<b>Total</b>	<b>0.0200</b>	<b>0.0117</b>	<b>0.2148</b>	<b>7.1000e-004</b>	<b>0.0824</b>	<b>4.2000e-004</b>	<b>0.0828</b>	<b>0.0220</b>	<b>3.8000e-004</b>	<b>0.0224</b>		<b>73.5241</b>	<b>73.5241</b>	<b>1.3800e-003</b>	<b>1.4500e-003</b>	<b>73.9906</b>

**3.5 Fine Grading - 2025**

**Unmitigated Construction On-Site**

Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000				0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432			6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>			<b>6,056.8614</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0157	0.5563	0.2298	2.7700e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		305.1956	305.1956	0.0192	0.0442	318.8369
Worker	0.0500	0.0294	0.5369	1.7600e-003	0.2236	1.0400e-003	0.2246	0.0593	9.6000e-004	0.0603		183.8102	183.8102	3.4500e-003	3.6200e-003	184.9765
<b>Total</b>	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.5300e-003</b>	<b>0.3259</b>	<b>4.0700e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8600e-003</b>	<b>0.0926</b>		<b>489.0058</b>	<b>489.0058</b>	<b>0.0227</b>	<b>0.0478</b>	<b>503.8134</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000

Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0157	0.5563	0.2298	2.7700e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307		305.1956	305.1956	0.0192	0.0442	318.8369
Worker	0.0500	0.0294	0.5369	1.7600e-003	0.2061	1.0400e-003	0.2071	0.0550	9.6000e-004	0.0560		183.8102	183.8102	3.4500e-003	3.6200e-003	184.9765
<b>Total</b>	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.5300e-003</b>	<b>0.3018</b>	<b>4.0700e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8600e-003</b>	<b>0.0867</b>		<b>489.0058</b>	<b>489.0058</b>	<b>0.0227</b>	<b>0.0478</b>	<b>503.8134</b>

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>



Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0375	0.0220	0.4027	1.3200e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		137.8576	137.8576	2.5900e-003	2.7200e-003	138.7324
<b>Total</b>	<b>0.0375</b>	<b>0.0220</b>	<b>0.4027</b>	<b>1.3200e-003</b>	<b>0.1677</b>	<b>7.8000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>137.8576</b>	<b>137.8576</b>	<b>2.5900e-003</b>	<b>2.7200e-003</b>	<b>138.7324</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0375	0.0220	0.4027	1.3200e-003	0.1546	7.8000e-004	0.1553	0.0413	7.2000e-004	0.0420	137.8576	137.8576	2.5900e-003	2.7200e-003	138.7324	
<b>Total</b>	<b>0.0375</b>	<b>0.0220</b>	<b>0.4027</b>	<b>1.3200e-003</b>	<b>0.1546</b>	<b>7.8000e-004</b>	<b>0.1553</b>	<b>0.0413</b>	<b>7.2000e-004</b>	<b>0.0420</b>	<b>137.8576</b>	<b>137.8576</b>	<b>2.5900e-003</b>	<b>2.7200e-003</b>	<b>138.7324</b>	

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	0.0356	0.0202	0.3814	1.2800e-003	0.1677	7.4000e-004	0.1684	0.0445	6.9000e-004	0.0452		134.7032	134.7032	2.3600e-003	2.5800e-003	135.5305
<b>Total</b>	<b>0.0356</b>	<b>0.0202</b>	<b>0.3814</b>	<b>1.2800e-003</b>	<b>0.1677</b>	<b>7.4000e-004</b>	<b>0.1684</b>	<b>0.0445</b>	<b>6.9000e-004</b>	<b>0.0452</b>		<b>134.7032</b>	<b>134.7032</b>	<b>2.3600e-003</b>	<b>2.5800e-003</b>	<b>135.5305</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0356	0.0202	0.3814	1.2800e-003	0.1546	7.4000e-004	0.1553	0.0413	6.9000e-004	0.0419		134.7032	134.7032	2.3600e-003	2.5800e-003	135.5305
<b>Total</b>	<b>0.0356</b>	<b>0.0202</b>	<b>0.3814</b>	<b>1.2800e-003</b>	<b>0.1546</b>	<b>7.4000e-004</b>	<b>0.1553</b>	<b>0.0413</b>	<b>6.9000e-004</b>	<b>0.0419</b>		<b>134.7032</b>	<b>134.7032</b>	<b>2.3600e-003</b>	<b>2.5800e-003</b>	<b>135.5305</b>

Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.7 Finishing/Landscaping - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496		300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>		<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-003	4.4000e-003	0.0805	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		27.5715	27.5715	5.2000e-004	5.4000e-004	27.7465
<b>Total</b>	<b>7.5000e-003</b>	<b>4.4000e-003</b>	<b>0.0805</b>	<b>2.6000e-004</b>	<b>0.0335</b>	<b>1.6000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.4000e-004</b>	<b>9.0400e-003</b>		<b>27.5715</b>	<b>27.5715</b>	<b>5.2000e-004</b>	<b>5.4000e-004</b>	<b>27.7465</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496	0.0000	300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-003	4.4000e-003	0.0805	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003		27.5715	27.5715	5.2000e-004	5.4000e-004	27.7465
<b>Total</b>	<b>7.5000e-003</b>	<b>4.4000e-003</b>	<b>0.0805</b>	<b>2.6000e-004</b>	<b>0.0309</b>	<b>1.6000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.4000e-004</b>	<b>8.3900e-003</b>		<b>27.5715</b>	<b>27.5715</b>	<b>5.2000e-004</b>	<b>5.4000e-004</b>	<b>27.7465</b>

**3.7 Finishing/Landscaping - 2026**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496		300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>		<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1200e-003	4.0300e-003	0.0763	2.6000e-004	0.0335	1.5000e-004	0.0337	8.8900e-003	1.4000e-004	9.0300e-003		26.9407	26.9407	4.7000e-004	5.2000e-004	27.1061
<b>Total</b>	<b>7.1200e-003</b>	<b>4.0300e-003</b>	<b>0.0763</b>	<b>2.6000e-004</b>	<b>0.0335</b>	<b>1.5000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.4000e-004</b>	<b>9.0300e-003</b>		<b>26.9407</b>	<b>26.9407</b>	<b>4.7000e-004</b>	<b>5.2000e-004</b>	<b>27.1061</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496	0.0000	300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	7.1200e-003	4.0300e-003	0.0763	2.6000e-004	0.0309	1.5000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003	26.9407	26.9407	4.7000e-004	5.2000e-004	27.1061	
<b>Total</b>	<b>7.1200e-003</b>	<b>4.0300e-003</b>	<b>0.0763</b>	<b>2.6000e-004</b>	<b>0.0309</b>	<b>1.5000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.4000e-004</b>	<b>8.3900e-003</b>	<b>26.9407</b>	<b>26.9407</b>	<b>4.7000e-004</b>	<b>5.2000e-004</b>	<b>27.1061</b>	

**3.8 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1725	6.1197	2.5282	0.0305	1.1253	0.0333	1.1586	0.3239	0.0319	0.3557		3,357.1517	3,357.1517	0.2115	0.4858	3,507.2057
Worker	1.7136	1.0055	18.3904	0.0604	7.6567	0.0357	7.6924	2.0306	0.0328	2.0634		6,295.4990	6,295.4990	0.1182	0.1241	6,335.4440

Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.8861	7.1252	20.9186	0.0909	8.7820	0.0690	8.8510	2.3545	0.0647	2.4192		9,652.6507	9,652.6507	0.3297	0.6099	9,842.6496
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1725	6.1197	2.5282	0.0305	1.0531	0.0333	1.0864	0.3061	0.0319	0.3380		3,357.1517	3,357.1517	0.2115	0.4858	3,507.2057
Worker	1.7136	1.0055	18.3904	0.0604	7.0576	0.0357	7.0933	1.8835	0.0328	1.9164		6,295.4990	6,295.4990	0.1182	0.1241	6,335.4440
<b>Total</b>	<b>1.8861</b>	<b>7.1252</b>	<b>20.9186</b>	<b>0.0909</b>	<b>8.1107</b>	<b>0.0690</b>	<b>8.1797</b>	<b>2.1897</b>	<b>0.0647</b>	<b>2.2544</b>		<b>9,652.6507</b>	<b>9,652.6507</b>	<b>0.3297</b>	<b>0.6099</b>	<b>9,842.6496</b>

**3.8 Building Construction - 2026**

Unmitigated Construction On-Site



Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1700	6.0757	2.5201	0.0298	1.1253	0.0333	1.1586	0.3239	0.0318	0.3557		3,292.8201	3,292.8201	0.2138	0.4784	3,440.7165
Worker	1.6255	0.9205	17.4164	0.0586	7.6567	0.0340	7.6907	2.0306	0.0313	2.0619		6,151.4474	6,151.4474	0.1080	0.1177	6,189.2261
<b>Total</b>	<b>1.7954</b>	<b>6.9962</b>	<b>19.9365</b>	<b>0.0884</b>	<b>8.7820</b>	<b>0.0673</b>	<b>8.8493</b>	<b>2.3545</b>	<b>0.0631</b>	<b>2.4176</b>		<b>9,444.2675</b>	<b>9,444.2675</b>	<b>0.3218</b>	<b>0.5961</b>	<b>9,629.9426</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Phase 2 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1700	6.0757	2.5201	0.0298	1.0531	0.0333	1.0864	0.3061	0.0318	0.3380		3,292.8201	3,292.8201	0.2138	0.4784	3,440.7165
Worker	1.6255	0.9205	17.4164	0.0586	7.0576	0.0340	7.0916	1.8835	0.0313	1.9148		6,151.4474	6,151.4474	0.1080	0.1177	6,189.2261
Total	1.7954	6.9962	19.9365	0.0884	8.1107	0.0673	8.1780	2.1897	0.0631	2.2528		9,444.2675	9,444.2675	0.3218	0.5961	9,629.9426

3.8 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Unmitigated Construction Off-Site

Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1677	6.0304	2.5125	0.0292	1.1253	0.0332	1.1585	0.3239	0.0318	0.3556		3,225.4361	3,225.4361	0.2153	0.4704	3,370.9958
Worker	1.5441	0.8490	16.5928	0.0569	7.6567	0.0320	7.6887	2.0306	0.0295	2.0601		6,023.5780	6,023.5780	0.0992	0.1124	6,059.5457
<b>Total</b>	<b>1.7117</b>	<b>6.8794</b>	<b>19.1054</b>	<b>0.0861</b>	<b>8.7820</b>	<b>0.0653</b>	<b>8.8472</b>	<b>2.3545</b>	<b>0.0613</b>	<b>2.4157</b>		<b>9,249.0141</b>	<b>9,249.0141</b>	<b>0.3145</b>	<b>0.5828</b>	<b>9,430.5415</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 2 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.1677	6.0304	2.5125	0.0292	1.0530	0.0332	1.0863	0.3061	0.0318	0.3379		3,225.4361	3,225.4361	0.2153	0.4704	3,370.9958
Worker	1.5441	0.8490	16.5928	0.0569	7.0576	0.0320	7.0896	1.8835	0.0295	1.9130		6,023.5780	6,023.5780	0.0992	0.1124	6,059.5457
<b>Total</b>	<b>1.7117</b>	<b>6.8794</b>	<b>19.1054</b>	<b>0.0861</b>	<b>8.1106</b>	<b>0.0653</b>	<b>8.1759</b>	<b>2.1897</b>	<b>0.0613</b>	<b>2.2509</b>		<b>9,249.0141</b>	<b>9,249.0141</b>	<b>0.3145</b>	<b>0.5828</b>	<b>9,430.5415</b>

**3.9 Architectural Coating - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.8767						0.0000	0.0000		0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>31.0475</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3088	0.1698	3.3186	0.0114	1.5313	6.4100e-003	1.5378	0.4061	5.9000e-003	0.4120		1,204.7156	1,204.7156	0.0198	0.0225	1,211.9091
<b>Total</b>	<b>0.3088</b>	<b>0.1698</b>	<b>3.3186</b>	<b>0.0114</b>	<b>1.5313</b>	<b>6.4100e-003</b>	<b>1.5378</b>	<b>0.4061</b>	<b>5.9000e-003</b>	<b>0.4120</b>		<b>1,204.7156</b>	<b>1,204.7156</b>	<b>0.0198</b>	<b>0.0225</b>	<b>1,211.9091</b>

Phase 2 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>31.0475</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3088	0.1698	3.3186	0.0114	1.4115	6.4100e-003	1.4179	0.3767	5.9000e-003	0.3826		1,204.7156	1,204.7156	0.0198	0.0225	1,211.9091
<b>Total</b>	<b>0.3088</b>	<b>0.1698</b>	<b>3.3186</b>	<b>0.0114</b>	<b>1.4115</b>	<b>6.4100e-003</b>	<b>1.4179</b>	<b>0.3767</b>	<b>5.9000e-003</b>	<b>0.3826</b>		<b>1,204.7156</b>	<b>1,204.7156</b>	<b>0.0198</b>	<b>0.0225</b>	<b>1,211.9091</b>

Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 2 Construction  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	105.00	Dwelling Unit	25.20	189,000.00	300
Condo/Townhouse	507.00	Dwelling Unit	49.00	507,000.00	1450
City Park	13.00	Acre	13.00	566,280.00	0
Parking Lot	53.60	1000sqft	1.23	53,600.00	0
Other Asphalt Surfaces	1.20	Acre	1.20	52,272.00	0
Other Non-Asphalt Surfaces	5.27	Acre	5.27	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2027

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - See assumption in the AQ/GHG Appendix of the DEIR.
- Construction Phase - See
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.

Phase 2 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	110.00	142.00
tblConstructionPhase	NumDays	1,550.00	423.00
tblConstructionPhase	NumDays	155.00	139.00
tblConstructionPhase	NumDays	110.00	143.00
tblConstructionPhase	NumDays	60.00	70.00
tblConstructionPhase	NumDays	155.00	141.00
tblConstructionPhase	PhaseEndDate	9/27/2032	7/31/2027
tblConstructionPhase	PhaseEndDate	11/24/2031	7/31/2027
tblConstructionPhase	PhaseEndDate	12/15/2025	7/20/2025
tblConstructionPhase	PhaseEndDate	4/26/2032	3/26/2026
tblConstructionPhase	PhaseEndDate	5/12/2025	1/6/2025
tblConstructionPhase	PhaseStartDate	4/27/2032	1/14/2027
tblConstructionPhase	PhaseStartDate	12/16/2025	12/17/2025
tblConstructionPhase	PhaseStartDate	5/13/2025	1/7/2025
tblConstructionPhase	PhaseStartDate	11/25/2031	9/9/2025
tblConstructionPhase	PhaseStartDate	2/18/2025	10/1/2024
tblLandUse	LandUseSquareFeet	229,561.20	0.00
tblLandUse	LotAcreage	34.09	25.20
tblLandUse	LotAcreage	31.69	49.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7209	27.5000	18.9337	0.0411	19.9094	1.2318	21.1412	10.1705	1.1334	11.3039	0.0000	4,005.2342	4,005.2342	1.2058	0.0262	4,043.1696
2025	6.6163	62.5391	63.4715	0.1475	19.9094	2.5878	21.7361	10.1705	2.3810	11.1727	0.0000	14,579.5030	14,579.5030	4.3649	0.6224	14,808.6482
2026	4.4627	29.7662	52.1675	0.1400	8.9832	1.0683	10.0515	2.4078	0.9950	3.4028	0.0000	14,374.8212	14,374.8212	1.7392	0.6079	14,599.4428
2027	34.6257	21.0350	39.0773	0.1242	10.3133	0.6509	10.9642	2.7606	0.6151	3.3757	0.0000	12,953.2978	12,953.2978	0.9535	0.6148	13,160.3401
<b>Maximum</b>	<b>34.6257</b>	<b>62.5391</b>	<b>63.4715</b>	<b>0.1475</b>	<b>19.9094</b>	<b>2.5878</b>	<b>21.7361</b>	<b>10.1705</b>	<b>2.3810</b>	<b>11.3039</b>	<b>0.0000</b>	<b>14,579.5030</b>	<b>14,579.5030</b>	<b>4.3649</b>	<b>0.6224</b>	<b>14,808.6482</b>

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7209	27.5000	18.9337	0.0411	8.6367	1.2318	9.8685	4.3822	1.1334	5.5156	0.0000	4,005.2342	4,005.2342	1.2058	0.0262	4,043.1696
2025	6.6163	62.5391	63.4715	0.1475	8.6367	2.5878	11.1428	4.3822	2.3810	5.6926	0.0000	14,579.5030	14,579.5030	4.3649	0.6224	14,808.6482
2026	4.4627	29.7662	52.1675	0.1400	8.2961	1.0683	9.3644	2.2392	0.9950	3.2342	0.0000	14,374.8212	14,374.8212	1.7392	0.6079	14,599.4428
2027	34.6257	21.0350	39.0773	0.1242	9.5222	0.6509	10.1731	2.5664	0.6151	3.1815	0.0000	12,953.2978	12,953.2978	0.9535	0.6148	13,160.3401
<b>Maximum</b>	<b>34.6257</b>	<b>62.5391</b>	<b>63.4715</b>	<b>0.1475</b>	<b>9.5222</b>	<b>2.5878</b>	<b>11.1428</b>	<b>4.3822</b>	<b>2.3810</b>	<b>5.6926</b>	<b>0.0000</b>	<b>14,579.5030</b>	<b>14,579.5030</b>	<b>4.3649</b>	<b>0.6224</b>	<b>14,808.6482</b>



Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	40.64	0.00	36.54	46.80	0.00	39.76	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	1/6/2025	5	70	
2	Rough Grading	Grading	1/7/2025	7/20/2025	5	139	
3	Utility Trenching	Trenching	3/21/2025	9/7/2025	5	121	
4	Fine Grading	Grading	6/2/2025	12/15/2025	5	141	
5	Paving	Paving	9/9/2025	3/26/2026	5	143	
6	Finishing/Landscaping	Trenching	10/29/2025	5/13/2026	5	141	
7	Building Construction	Building Construction	12/17/2025	7/31/2027	5	423	
8	Architectural Coating	Architectural Coating	1/14/2027	7/31/2027	5	142	

Acres of Grading (Site Preparation Phase): 105

Acres of Grading (Grading Phase): 417

Acres of Paving: 7.7

Residential Indoor: 1,409,400; Residential Outdoor: 469,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,352

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fine Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Fine Grading	Graders	1	8.00	187	0.41
Rough Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Rough Grading	Graders	1	8.00	187	0.41

Phase 2 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	685.00	176.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	137.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6800e-003	0.2920	0.1190	1.4200e-003	0.0512	1.5100e-003	0.0527	0.0147	1.4500e-003	0.0162		155.7435	155.7435	9.4700e-003	0.0225	162.6728
Worker	0.0523	0.0320	0.4791	1.5700e-003	0.2012	9.8000e-004	0.2022	0.0534	9.0000e-004	0.0543		161.4808	161.4808	3.5100e-003	3.6900e-003	162.6674
<b>Total</b>	<b>0.0600</b>	<b>0.3240</b>	<b>0.5981</b>	<b>2.9900e-003</b>	<b>0.2524</b>	<b>2.4900e-003</b>	<b>0.2549</b>	<b>0.0681</b>	<b>2.3500e-003</b>	<b>0.0704</b>		<b>317.2242</b>	<b>317.2242</b>	<b>0.0130</b>	<b>0.0262</b>	<b>325.3402</b>

**Mitigated Construction On-Site**

Phase 2 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000				0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928			3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.2294</b>	<b>9.6327</b>	<b>4.3188</b>	<b>1.1310</b>	<b>5.4498</b>	<b>0.0000</b>	<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>			<b>3,717.8294</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6800e-003	0.2920	0.1190	1.4200e-003	0.0479	1.5100e-003	0.0494	0.0139	1.4500e-003	0.0154		155.7435	155.7435	9.4700e-003	0.0225	162.6728
Worker	0.0523	0.0320	0.4791	1.5700e-003	0.1855	9.8000e-004	0.1864	0.0495	9.0000e-004	0.0504		161.4808	161.4808	3.5100e-003	3.6900e-003	162.6674
<b>Total</b>	<b>0.0600</b>	<b>0.3240</b>	<b>0.5981</b>	<b>2.9900e-003</b>	<b>0.2333</b>	<b>2.4900e-003</b>	<b>0.2358</b>	<b>0.0634</b>	<b>2.3500e-003</b>	<b>0.0658</b>		<b>317.2242</b>	<b>317.2242</b>	<b>0.0130</b>	<b>0.0262</b>	<b>325.3402</b>

**3.2 Site Preparation - 2025**

Unmitigated Construction On-Site

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

Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5600e-003	0.2906	0.1185	1.3900e-003	0.0512	1.5200e-003	0.0527	0.0147	1.4600e-003	0.0162		152.8327	152.8327	9.5900e-003	0.0221	159.6675
Worker	0.0495	0.0290	0.4510	1.5100e-003	0.2012	9.4000e-004	0.2021	0.0534	8.6000e-004	0.0542		157.5482	157.5482	3.1900e-003	3.4700e-003	158.6615
<b>Total</b>	<b>0.0571</b>	<b>0.3196</b>	<b>0.5695</b>	<b>2.9000e-003</b>	<b>0.2524</b>	<b>2.4600e-003</b>	<b>0.2548</b>	<b>0.0681</b>	<b>2.3200e-003</b>	<b>0.0704</b>		<b>310.3809</b>	<b>310.3809</b>	<b>0.0128</b>	<b>0.0256</b>	<b>318.3290</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.0868</b>	<b>9.4902</b>	<b>4.3188</b>	<b>0.9999</b>	<b>5.3187</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

Phase 2 Construction - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5600e-003	0.2906	0.1185	1.3900e-003	0.0479	1.5200e-003	0.0494	0.0139	1.4600e-003	0.0154		152.8327	152.8327	9.5900e-003	0.0221	159.6675
Worker	0.0495	0.0290	0.4510	1.5100e-003	0.1855	9.4000e-004	0.1864	0.0495	8.6000e-004	0.0504		157.5482	157.5482	3.1900e-003	3.4700e-003	158.6615
<b>Total</b>	<b>0.0571</b>	<b>0.3196</b>	<b>0.5695</b>	<b>2.9000e-003</b>	<b>0.2333</b>	<b>2.4600e-003</b>	<b>0.2358</b>	<b>0.0634</b>	<b>2.3200e-003</b>	<b>0.0657</b>		<b>310.3809</b>	<b>310.3809</b>	<b>0.0128</b>	<b>0.0256</b>	<b>318.3290</b>

**3.3 Rough Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

Phase 2 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0151	0.5813	0.2369	2.7700e-003	0.1023	3.0400e-003	0.1054	0.0294	2.9100e-003	0.0324		305.6655	305.6655	0.0192	0.0443	319.3350
Worker	0.0550	0.0322	0.5011	1.6800e-003	0.2236	1.0400e-003	0.2246	0.0593	9.6000e-004	0.0603		175.0535	175.0535	3.5400e-003	3.8500e-003	176.2906
<b>Total</b>	<b>0.0702</b>	<b>0.6135</b>	<b>0.7380</b>	<b>4.4500e-003</b>	<b>0.3259</b>	<b>4.0800e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8700e-003</b>	<b>0.0926</b>		<b>480.7190</b>	<b>480.7190</b>	<b>0.0227</b>	<b>0.0481</b>	<b>495.6256</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

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

Phase 2 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0151	0.5813	0.2369	2.7700e-003	0.0957	3.0400e-003	0.0988	0.0278	2.9100e-003	0.0307	305.6655	305.6655	0.0192	0.0443	319.3350	
Worker	0.0550	0.0322	0.5011	1.6800e-003	0.2061	1.0400e-003	0.2071	0.0550	9.6000e-004	0.0560	175.0535	175.0535	3.5400e-003	3.8500e-003	176.2906	
<b>Total</b>	<b>0.0702</b>	<b>0.6135</b>	<b>0.7380</b>	<b>4.4500e-003</b>	<b>0.3018</b>	<b>4.0800e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8700e-003</b>	<b>0.0867</b>	<b>480.7190</b>	<b>480.7190</b>	<b>0.0227</b>	<b>0.0481</b>	<b>495.6256</b>	

**3.4 Utility Trenching - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6515	5.4135	9.1328	0.0138		0.3174	0.3174		0.2920	0.2920		1,334.6610	1,334.6610	0.4317		1,345.4524
<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>		<b>0.3174</b>	<b>0.3174</b>		<b>0.2920</b>	<b>0.2920</b>		<b>1,334.6610</b>	<b>1,334.6610</b>	<b>0.4317</b>		<b>1,345.4524</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0220	0.0129	0.2004	6.7000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.8000e-004	0.0241		70.0214	70.0214	1.4200e-003	1.5400e-003	70.5162
<b>Total</b>	<b>0.0220</b>	<b>0.0129</b>	<b>0.2004</b>	<b>6.7000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>70.0214</b>	<b>70.0214</b>	<b>1.4200e-003</b>	<b>1.5400e-003</b>	<b>70.5162</b>



Phase 2 Construction - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6515	5.4135	9.1328	0.0138		0.3174	0.3174		0.2920	0.2920	0.0000	1,334.6610	1,334.6610	0.4317		1,345.4524
<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>		<b>0.3174</b>	<b>0.3174</b>		<b>0.2920</b>	<b>0.2920</b>	<b>0.0000</b>	<b>1,334.6610</b>	<b>1,334.6610</b>	<b>0.4317</b>		<b>1,345.4524</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0220	0.0129	0.2004	6.7000e-004	0.0824	4.2000e-004	0.0828	0.0220	3.8000e-004	0.0224		70.0214	70.0214	1.4200e-003	1.5400e-003	70.5162
<b>Total</b>	<b>0.0220</b>	<b>0.0129</b>	<b>0.2004</b>	<b>6.7000e-004</b>	<b>0.0824</b>	<b>4.2000e-004</b>	<b>0.0828</b>	<b>0.0220</b>	<b>3.8000e-004</b>	<b>0.0224</b>		<b>70.0214</b>	<b>70.0214</b>	<b>1.4200e-003</b>	<b>1.5400e-003</b>	<b>70.5162</b>

**3.5 Fine Grading - 2025**

**Unmitigated Construction On-Site**

Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0151	0.5813	0.2369	2.7700e-003	0.1023	3.0400e-003	0.1054	0.0294	2.9100e-003	0.0324		305.6655	305.6655	0.0192	0.0443	319.3350
Worker	0.0550	0.0322	0.5011	1.6800e-003	0.2236	1.0400e-003	0.2246	0.0593	9.6000e-004	0.0603		175.0535	175.0535	3.5400e-003	3.8500e-003	176.2906
<b>Total</b>	<b>0.0702</b>	<b>0.6135</b>	<b>0.7380</b>	<b>4.4500e-003</b>	<b>0.3259</b>	<b>4.0800e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8700e-003</b>	<b>0.0926</b>		<b>480.7190</b>	<b>480.7190</b>	<b>0.0227</b>	<b>0.0481</b>	<b>495.6256</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000

Phase 2 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0151	0.5813	0.2369	2.7700e-003	0.0957	3.0400e-003	0.0988	0.0278	2.9100e-003	0.0307		305.6655	305.6655	0.0192	0.0443	319.3350
Worker	0.0550	0.0322	0.5011	1.6800e-003	0.2061	1.0400e-003	0.2071	0.0550	9.6000e-004	0.0560		175.0535	175.0535	3.5400e-003	3.8500e-003	176.2906
<b>Total</b>	<b>0.0702</b>	<b>0.6135</b>	<b>0.7380</b>	<b>4.4500e-003</b>	<b>0.3018</b>	<b>4.0800e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8700e-003</b>	<b>0.0867</b>		<b>480.7190</b>	<b>480.7190</b>	<b>0.0227</b>	<b>0.0481</b>	<b>495.6256</b>

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0242	0.3758	1.2600e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		131.2902	131.2902	2.6600e-003	2.8900e-003	132.2179
<b>Total</b>	<b>0.0413</b>	<b>0.0242</b>	<b>0.3758</b>	<b>1.2600e-003</b>	<b>0.1677</b>	<b>7.8000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>131.2902</b>	<b>131.2902</b>	<b>2.6600e-003</b>	<b>2.8900e-003</b>	<b>132.2179</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0242	0.3758	1.2600e-003	0.1546	7.8000e-004	0.1553	0.0413	7.2000e-004	0.0420	131.2902	131.2902	2.6600e-003	2.8900e-003	132.2179	
<b>Total</b>	<b>0.0413</b>	<b>0.0242</b>	<b>0.3758</b>	<b>1.2600e-003</b>	<b>0.1546</b>	<b>7.8000e-004</b>	<b>0.1553</b>	<b>0.0413</b>	<b>7.2000e-004</b>	<b>0.0420</b>	<b>131.2902</b>	<b>131.2902</b>	<b>2.6600e-003</b>	<b>2.8900e-003</b>	<b>132.2179</b>	

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 2 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	0.0393	0.0221	0.3561	1.2200e-003	0.1677	7.4000e-004	0.1684	0.0445	6.9000e-004	0.0452		128.2955	128.2955	2.4300e-003	2.7400e-003	129.1730
<b>Total</b>	<b>0.0393</b>	<b>0.0221</b>	<b>0.3561</b>	<b>1.2200e-003</b>	<b>0.1677</b>	<b>7.4000e-004</b>	<b>0.1684</b>	<b>0.0445</b>	<b>6.9000e-004</b>	<b>0.0452</b>		<b>128.2955</b>	<b>128.2955</b>	<b>2.4300e-003</b>	<b>2.7400e-003</b>	<b>129.1730</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0393	0.0221	0.3561	1.2200e-003	0.1546	7.4000e-004	0.1553	0.0413	6.9000e-004	0.0419		128.2955	128.2955	2.4300e-003	2.7400e-003	129.1730
<b>Total</b>	<b>0.0393</b>	<b>0.0221</b>	<b>0.3561</b>	<b>1.2200e-003</b>	<b>0.1546</b>	<b>7.4000e-004</b>	<b>0.1553</b>	<b>0.0413</b>	<b>6.9000e-004</b>	<b>0.0419</b>		<b>128.2955</b>	<b>128.2955</b>	<b>2.4300e-003</b>	<b>2.7400e-003</b>	<b>129.1730</b>

Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Finishing/Landscaping - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496		300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>		<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2500e-003	4.8300e-003	0.0752	2.5000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		26.2580	26.2580	5.3000e-004	5.8000e-004	26.4436
<b>Total</b>	<b>8.2500e-003</b>	<b>4.8300e-003</b>	<b>0.0752</b>	<b>2.5000e-004</b>	<b>0.0335</b>	<b>1.6000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.4000e-004</b>	<b>9.0400e-003</b>		<b>26.2580</b>	<b>26.2580</b>	<b>5.3000e-004</b>	<b>5.8000e-004</b>	<b>26.4436</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496	0.0000	300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2500e-003	4.8300e-003	0.0752	2.5000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003		26.2580	26.2580	5.3000e-004	5.8000e-004	26.4436
<b>Total</b>	<b>8.2500e-003</b>	<b>4.8300e-003</b>	<b>0.0752</b>	<b>2.5000e-004</b>	<b>0.0309</b>	<b>1.6000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.4000e-004</b>	<b>8.3900e-003</b>		<b>26.2580</b>	<b>26.2580</b>	<b>5.3000e-004</b>	<b>5.8000e-004</b>	<b>26.4436</b>

3.7 Finishing/Landscaping - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496		300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>		<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>



Phase 2 Construction - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8500e-003	4.4200e-003	0.0712	2.4000e-004	0.0335	1.5000e-004	0.0337	8.8900e-003	1.4000e-004	9.0300e-003		25.6591	25.6591	4.9000e-004	5.5000e-004	25.8346
<b>Total</b>	<b>7.8500e-003</b>	<b>4.4200e-003</b>	<b>0.0712</b>	<b>2.4000e-004</b>	<b>0.0335</b>	<b>1.5000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.4000e-004</b>	<b>9.0300e-003</b>		<b>25.6591</b>	<b>25.6591</b>	<b>4.9000e-004</b>	<b>5.5000e-004</b>	<b>25.8346</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496	0.0000	300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	7.8500e-003	4.4200e-003	0.0712	2.4000e-004	0.0309	1.5000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003	25.6591	25.6591	4.9000e-004	5.5000e-004	25.8346	
<b>Total</b>	<b>7.8500e-003</b>	<b>4.4200e-003</b>	<b>0.0712</b>	<b>2.4000e-004</b>	<b>0.0309</b>	<b>1.5000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.4000e-004</b>	<b>8.3900e-003</b>	<b>25.6591</b>	<b>25.6591</b>	<b>4.9000e-004</b>	<b>5.5000e-004</b>	<b>25.8346</b>	

3.8 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1663	6.3938	2.6063	0.0305	1.1253	0.0335	1.1588	0.3239	0.0320	0.3559		3,362.3204	3,362.3204	0.2109	0.4869	3,512.6846
Worker	1.8847	1.1037	17.1622	0.0576	7.6567	0.0357	7.6924	2.0306	0.0328	2.0634		5,995.5837	5,995.5837	0.1214	0.1320	6,037.9524

Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	2.0510	7.4974	19.7685	0.0881	8.7820	0.0692	8.8512	2.3545	0.0649	2.4193		9,357.9040	9,357.9040	0.3323	0.6189	9,550.6371
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1663	6.3938	2.6063	0.0305	1.0531	0.0335	1.0866	0.3061	0.0320	0.3382		3,362.3204	3,362.3204	0.2109	0.4869	3,512.6846
Worker	1.8847	1.1037	17.1622	0.0576	7.0576	0.0357	7.0933	1.8835	0.0328	1.9164		5,995.5837	5,995.5837	0.1214	0.1320	6,037.9524
<b>Total</b>	<b>2.0510</b>	<b>7.4974</b>	<b>19.7685</b>	<b>0.0881</b>	<b>8.1107</b>	<b>0.0692</b>	<b>8.1799</b>	<b>2.1897</b>	<b>0.0649</b>	<b>2.2545</b>		<b>9,357.9040</b>	<b>9,357.9040</b>	<b>0.3323</b>	<b>0.6189</b>	<b>9,550.6371</b>

**3.8 Building Construction - 2026**

Unmitigated Construction On-Site

Phase 2 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1637	6.3486	2.5966	0.0299	1.1253	0.0335	1.1588	0.3239	0.0320	0.3559		3,297.9865	3,297.9865	0.2132	0.4794	3,446.1868
Worker	1.7932	1.0101	16.2603	0.0558	7.6567	0.0340	7.6907	2.0306	0.0313	2.0619		5,858.8293	5,858.8293	0.1111	0.1252	5,898.8989
<b>Total</b>	<b>1.9569</b>	<b>7.3587</b>	<b>18.8569</b>	<b>0.0857</b>	<b>8.7820</b>	<b>0.0675</b>	<b>8.8495</b>	<b>2.3545</b>	<b>0.0633</b>	<b>2.4177</b>		<b>9,156.8158</b>	<b>9,156.8158</b>	<b>0.3243</b>	<b>0.6046</b>	<b>9,345.0857</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Phase 2 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1637	6.3486	2.5966	0.0299	1.0531	0.0335	1.0865	0.3061	0.0320	0.3381		3,297.9865	3,297.9865	0.2132	0.4794	3,446.1868
Worker	1.7932	1.0101	16.2603	0.0558	7.0576	0.0340	7.0916	1.8835	0.0313	1.9148		5,858.8293	5,858.8293	0.1111	0.1252	5,898.8989
<b>Total</b>	<b>1.9569</b>	<b>7.3587</b>	<b>18.8569</b>	<b>0.0857</b>	<b>8.1107</b>	<b>0.0675</b>	<b>8.1781</b>	<b>2.1897</b>	<b>0.0633</b>	<b>2.2530</b>		<b>9,156.8158</b>	<b>9,156.8158</b>	<b>0.3243</b>	<b>0.6046</b>	<b>9,345.0857</b>

3.8 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Unmitigated Construction Off-Site

Phase 2 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1614	6.3020	2.5874	0.0292	1.1253	0.0334	1.1587	0.3239	0.0319	0.3558		3,230.5897	3,230.5897	0.2147	0.4715	3,376.4473
Worker	1.7079	0.9315	15.4967	0.0542	7.6567	0.0320	7.6887	2.0306	0.0295	2.0601		5,737.3214	5,737.3214	0.1021	0.1195	5,775.4691
<b>Total</b>	<b>1.8692</b>	<b>7.2335</b>	<b>18.0841</b>	<b>0.0834</b>	<b>8.7820</b>	<b>0.0654</b>	<b>8.8474</b>	<b>2.3545</b>	<b>0.0614</b>	<b>2.4159</b>		<b>8,967.9111</b>	<b>8,967.9111</b>	<b>0.3168</b>	<b>0.5909</b>	<b>9,151.9163</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 2 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.1614	6.3020	2.5874	0.0292	1.0530	0.0334	1.0864	0.3061	0.0319	0.3380		3,230.5897	3,230.5897	0.2147	0.4715	3,376.4473
Worker	1.7079	0.9315	15.4967	0.0542	7.0576	0.0320	7.0896	1.8835	0.0295	1.9130		5,737.3214	5,737.3214	0.1021	0.1195	5,775.4691
<b>Total</b>	<b>1.8692</b>	<b>7.2335</b>	<b>18.0841</b>	<b>0.0834</b>	<b>8.1106</b>	<b>0.0654</b>	<b>8.1761</b>	<b>2.1897</b>	<b>0.0614</b>	<b>2.2511</b>		<b>8,967.9111</b>	<b>8,967.9111</b>	<b>0.3168</b>	<b>0.5909</b>	<b>9,151.9163</b>

**3.9 Architectural Coating - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>31.0475</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3416	0.1863	3.0993	0.0108	1.5313	6.4100e-003	1.5378	0.4061	5.9000e-003	0.4120		1,147.4643	1,147.4643	0.0204	0.0239	1,155.0938
<b>Total</b>	<b>0.3416</b>	<b>0.1863</b>	<b>3.0993</b>	<b>0.0108</b>	<b>1.5313</b>	<b>6.4100e-003</b>	<b>1.5378</b>	<b>0.4061</b>	<b>5.9000e-003</b>	<b>0.4120</b>		<b>1,147.4643</b>	<b>1,147.4643</b>	<b>0.0204</b>	<b>0.0239</b>	<b>1,155.0938</b>

Phase 2 Construction - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>31.0475</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3416	0.1863	3.0993	0.0108	1.4115	6.4100e-003	1.4179	0.3767	5.9000e-003	0.3826		1,147.4643	1,147.4643	0.0204	0.0239	1,155.0938
<b>Total</b>	<b>0.3416</b>	<b>0.1863</b>	<b>3.0993</b>	<b>0.0108</b>	<b>1.4115</b>	<b>6.4100e-003</b>	<b>1.4179</b>	<b>0.3767</b>	<b>5.9000e-003</b>	<b>0.3826</b>		<b>1,147.4643</b>	<b>1,147.4643</b>	<b>0.0204</b>	<b>0.0239</b>	<b>1,155.0938</b>



Phase 2 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Phase 2 Construction**  
**Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	105.00	Dwelling Unit	25.20	189,000.00	300
Condo/Townhouse	507.00	Dwelling Unit	49.00	507,000.00	1450
City Park	13.00	Acre	13.00	566,280.00	0
Parking Lot	53.60	1000sqft	1.23	53,600.00	0
Other Asphalt Surfaces	1.20	Acre	1.20	52,272.00	0
Other Non-Asphalt Surfaces	5.27	Acre	5.27	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2027

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - See assumption in the AQ/GHG Appendix of the DEIR.
- Construction Phase - See
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.

Phase 2 Construction - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	110.00	142.00
tblConstructionPhase	NumDays	1,550.00	423.00
tblConstructionPhase	NumDays	155.00	139.00
tblConstructionPhase	NumDays	110.00	143.00
tblConstructionPhase	NumDays	60.00	70.00
tblConstructionPhase	NumDays	155.00	141.00
tblConstructionPhase	PhaseEndDate	9/27/2032	7/31/2027
tblConstructionPhase	PhaseEndDate	11/24/2031	7/31/2027
tblConstructionPhase	PhaseEndDate	12/15/2025	7/20/2025
tblConstructionPhase	PhaseEndDate	4/26/2032	3/26/2026
tblConstructionPhase	PhaseEndDate	5/12/2025	1/6/2025
tblConstructionPhase	PhaseStartDate	4/27/2032	1/14/2027
tblConstructionPhase	PhaseStartDate	12/16/2025	12/17/2025
tblConstructionPhase	PhaseStartDate	5/13/2025	1/7/2025
tblConstructionPhase	PhaseStartDate	11/25/2031	9/9/2025
tblConstructionPhase	PhaseStartDate	2/18/2025	10/1/2024
tblLandUse	LandUseSquareFeet	229,561.20	0.00
tblLandUse	LotAcreage	34.09	25.20
tblLandUse	LotAcreage	31.69	49.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

Phase 2 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0897	0.9076	0.6251	1.3600e-003	0.6601	0.0407	0.7007	0.3359	0.0374	0.3733	0.0000	119.9664	119.9664	0.0361	7.8000e-004	121.1024
2025	0.5231	4.8712	5.2580	0.0120	1.4859	0.2020	1.6880	0.5659	0.1859	0.7519	0.0000	1,062.5103	1,062.5103	0.3090	9.4600e-003	1,073.0544
2026	0.4506	2.9180	5.1662	0.0157	1.1326	0.0930	1.2256	0.3041	0.0871	0.3912	0.0000	1,474.4412	1,474.4412	0.1336	0.0718	1,499.1849
2027	2.4595	1.5848	2.9559	9.3800e-003	0.7583	0.0489	0.8071	0.2033	0.0462	0.2495	0.0000	887.4502	887.4502	0.0652	0.0421	901.6290
<b>Maximum</b>	<b>2.4595</b>	<b>4.8712</b>	<b>5.2580</b>	<b>0.0157</b>	<b>1.4859</b>	<b>0.2020</b>	<b>1.6880</b>	<b>0.5659</b>	<b>0.1859</b>	<b>0.7519</b>	<b>0.0000</b>	<b>1,474.4412</b>	<b>1,474.4412</b>	<b>0.3090</b>	<b>0.0718</b>	<b>1,499.1849</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0897	0.9076	0.6251	1.3600e-003	0.2862	0.0407	0.3269	0.1447	0.0374	0.1821	0.0000	119.9663	119.9663	0.0361	7.8000e-004	121.1022
2025	0.5231	4.8712	5.2580	0.0120	0.6878	0.2020	0.8898	0.2563	0.1859	0.4422	0.0000	1,062.5092	1,062.5092	0.3090	9.4600e-003	1,073.0532
2026	0.4506	2.9180	5.1662	0.0157	1.0463	0.0930	1.1393	0.2829	0.0871	0.3700	0.0000	1,474.4408	1,474.4408	0.1336	0.0718	1,499.1844
2027	2.4595	1.5848	2.9559	9.3800e-003	0.7003	0.0489	0.7492	0.1891	0.0462	0.2352	0.0000	887.4499	887.4499	0.0652	0.0421	901.6288
<b>Maximum</b>	<b>2.4595</b>	<b>4.8712</b>	<b>5.2580</b>	<b>0.0157</b>	<b>1.0463</b>	<b>0.2020</b>	<b>1.1393</b>	<b>0.2829</b>	<b>0.1859</b>	<b>0.4422</b>	<b>0.0000</b>	<b>1,474.4408</b>	<b>1,474.4408</b>	<b>0.3090</b>	<b>0.0718</b>	<b>1,499.1844</b>

Phase 2 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	32.61	0.00	29.77	38.05	0.00	30.37	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2024	12-31-2024	0.9930	0.9930
2	1-1-2025	3-31-2025	1.0300	1.0300
3	4-1-2025	6-30-2025	1.5480	1.5480
4	7-1-2025	9-30-2025	1.4855	1.4855
5	10-1-2025	12-31-2025	1.3304	1.3304
6	1-1-2026	3-31-2026	1.0831	1.0831
7	4-1-2026	6-30-2026	0.7580	0.7580
8	7-1-2026	9-30-2026	0.7435	0.7435
9	10-1-2026	12-31-2026	0.7607	0.7607
10	1-1-2027	3-31-2027	1.6372	1.6372
11	4-1-2027	6-30-2027	1.7907	1.7907
12	7-1-2027	9-30-2027	0.6100	0.6100
		Highest	1.7907	1.7907

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	1/6/2025	5	70	
2	Rough Grading	Grading	1/7/2025	7/20/2025	5	139	
3	Utility Trenching	Trenching	3/21/2025	9/7/2025	5	121	
4	Fine Grading	Grading	6/2/2025	12/15/2025	5	141	
5	Paving	Paving	9/9/2025	3/26/2026	5	143	
6	Finishing/Landscaping	Trenching	10/29/2025	5/13/2026	5	141	
7	Building Construction	Building Construction	12/17/2025	7/31/2027	5	423	
8	Architectural Coating	Architectural Coating	1/14/2027	7/31/2027	5	142	

Acres of Grading (Site Preparation Phase): 105

Phase 2 Construction - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Acres of Grading (Grading Phase): 417**

**Acres of Paving: 7.7**

**Residential Indoor: 1,409,400; Residential Outdoor: 469,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,352**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fine Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Fine Grading	Graders	1	8.00	187	0.41
Rough Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Rough Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	685.00	176.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	137.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6519	0.0000	0.6519	0.3337	0.0000	0.3337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0878	0.8968	0.6051	1.2600e-003		0.0406	0.0406		0.0373	0.0373	0.0000	110.4083	110.4083	0.0357	0.0000	111.3010
<b>Total</b>	<b>0.0878</b>	<b>0.8968</b>	<b>0.6051</b>	<b>1.2600e-003</b>	<b>0.6519</b>	<b>0.0406</b>	<b>0.6924</b>	<b>0.3337</b>	<b>0.0373</b>	<b>0.3710</b>	<b>0.0000</b>	<b>110.4083</b>	<b>110.4083</b>	<b>0.0357</b>	<b>0.0000</b>	<b>111.3010</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	9.6600e-003	3.8600e-003	5.0000e-006	1.6600e-003	5.0000e-005	1.7100e-003	4.8000e-004	5.0000e-005	5.3000e-004	0.0000	4.6585	4.6585	2.8000e-004	6.7000e-004	4.8657
Worker	1.5800e-003	1.0800e-003	0.0162	5.0000e-006	6.5200e-003	3.0000e-005	6.5500e-003	1.7300e-003	3.0000e-005	1.7600e-003	0.0000	4.8997	4.8997	1.0000e-004	1.1000e-004	4.9356
<b>Total</b>	<b>1.8400e-003</b>	<b>0.0107</b>	<b>0.0200</b>	<b>1.0000e-004</b>	<b>8.1800e-003</b>	<b>8.0000e-005</b>	<b>8.2600e-003</b>	<b>2.2100e-003</b>	<b>8.0000e-005</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>9.5581</b>	<b>9.5581</b>	<b>3.8000e-004</b>	<b>7.8000e-004</b>	<b>9.8014</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2787	0.0000	0.2787	0.1427	0.0000	0.1427	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0878	0.8968	0.6051	1.2600e-003		0.0406	0.0406		0.0373	0.0373	0.0000	110.4082	110.4082	0.0357	0.0000	111.3009
<b>Total</b>	<b>0.0878</b>	<b>0.8968</b>	<b>0.6051</b>	<b>1.2600e-003</b>	<b>0.2787</b>	<b>0.0406</b>	<b>0.3192</b>	<b>0.1427</b>	<b>0.0373</b>	<b>0.1800</b>	<b>0.0000</b>	<b>110.4082</b>	<b>110.4082</b>	<b>0.0357</b>	<b>0.0000</b>	<b>111.3009</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	9.6600e-003	3.8600e-003	5.0000e-005	1.5600e-003	5.0000e-005	1.6100e-003	4.5000e-004	5.0000e-005	5.0000e-004	0.0000	4.6585	4.6585	2.8000e-004	6.7000e-004	4.8657
Worker	1.5800e-003	1.0800e-003	0.0162	5.0000e-005	6.0100e-003	3.0000e-005	6.0400e-003	1.6100e-003	3.0000e-005	1.6400e-003	0.0000	4.8997	4.8997	1.0000e-004	1.1000e-004	4.9356
<b>Total</b>	<b>1.8400e-003</b>	<b>0.0107</b>	<b>0.0200</b>	<b>1.0000e-004</b>	<b>7.5700e-003</b>	<b>8.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0600e-003</b>	<b>8.0000e-005</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>9.5581</b>	<b>9.5581</b>	<b>3.8000e-004</b>	<b>7.8000e-004</b>	<b>9.8014</b>

**3.2 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0918	0.0000	0.0918	0.0259	0.0000	0.0259	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9500e-003	0.0505	0.0358	8.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	6.6934	6.6934	2.1600e-003	0.0000	6.7475
<b>Total</b>	<b>4.9500e-003</b>	<b>0.0505</b>	<b>0.0358</b>	<b>8.0000e-005</b>	<b>0.0918</b>	<b>2.1700e-003</b>	<b>0.0940</b>	<b>0.0259</b>	<b>2.0000e-003</b>	<b>0.0279</b>	<b>0.0000</b>	<b>6.6934</b>	<b>6.6934</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>6.7475</b>



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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.8000e-004	2.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2771	0.2771	2.0000e-005	4.0000e-005	0.2894
Worker	9.0000e-005	6.0000e-005	9.2000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2897	0.2897	1.0000e-005	1.0000e-005	0.2918
<b>Total</b>	<b>1.1000e-004</b>	<b>6.4000e-004</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.5668</b>	<b>0.5668</b>	<b>3.0000e-005</b>	<b>5.0000e-005</b>	<b>0.5812</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0393	0.0000	0.0393	0.0111	0.0000	0.0111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9500e-003	0.0505	0.0358	8.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	6.6934	6.6934	2.1600e-003	0.0000	6.7475
<b>Total</b>	<b>4.9500e-003</b>	<b>0.0505</b>	<b>0.0358</b>	<b>8.0000e-005</b>	<b>0.0393</b>	<b>2.1700e-003</b>	<b>0.0414</b>	<b>0.0111</b>	<b>2.0000e-003</b>	<b>0.0131</b>	<b>0.0000</b>	<b>6.6934</b>	<b>6.6934</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>6.7475</b>

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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.8000e-004	2.3000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2771	0.2771	2.0000e-005	4.0000e-005	0.2894
Worker	9.0000e-005	6.0000e-005	9.2000e-004	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2897	0.2897	1.0000e-005	1.0000e-005	0.2918
<b>Total</b>	<b>1.1000e-004</b>	<b>6.4000e-004</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.5668</b>	<b>0.5668</b>	<b>3.0000e-005</b>	<b>5.0000e-005</b>	<b>0.5812</b>

**3.3 Rough Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6397	0.0000	0.6397	0.2539	0.0000	0.2539	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2016	1.9420	1.8300	4.3100e-003		0.0786	0.0786		0.0723	0.0723	0.0000	378.8182	378.8182	0.1225	0.0000	381.8811
<b>Total</b>	<b>0.2016</b>	<b>1.9420</b>	<b>1.8300</b>	<b>4.3100e-003</b>	<b>0.6397</b>	<b>0.0786</b>	<b>0.7183</b>	<b>0.2539</b>	<b>0.0723</b>	<b>0.3263</b>	<b>0.0000</b>	<b>378.8182</b>	<b>378.8182</b>	<b>0.1225</b>	<b>0.0000</b>	<b>381.8811</b>

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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0700e-003	0.0405	0.0162	1.9000e-004	7.0100e-003	2.1000e-004	7.2200e-003	2.0200e-003	2.0000e-004	2.2200e-003	0.0000	19.2549	19.2549	1.2100e-003	2.7900e-003	20.1160
Worker	3.4900e-003	2.2800e-003	0.0356	1.2000e-004	0.0153	7.0000e-005	0.0153	4.0500e-003	7.0000e-005	4.1200e-003	0.0000	11.1860	11.1860	2.2000e-004	2.5000e-004	11.2650
<b>Total</b>	<b>4.5600e-003</b>	<b>0.0428</b>	<b>0.0518</b>	<b>3.1000e-004</b>	<b>0.0223</b>	<b>2.8000e-004</b>	<b>0.0226</b>	<b>6.0700e-003</b>	<b>2.7000e-004</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>30.4408</b>	<b>30.4408</b>	<b>1.4300e-003</b>	<b>3.0400e-003</b>	<b>31.3810</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2735	0.0000	0.2735	0.1086	0.0000	0.1086	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2016	1.9420	1.8300	4.3100e-003		0.0786	0.0786		0.0723	0.0723	0.0000	378.8177	378.8177	0.1225	0.0000	381.8807
<b>Total</b>	<b>0.2016</b>	<b>1.9420</b>	<b>1.8300</b>	<b>4.3100e-003</b>	<b>0.2735</b>	<b>0.0786</b>	<b>0.3521</b>	<b>0.1086</b>	<b>0.0723</b>	<b>0.1809</b>	<b>0.0000</b>	<b>378.8177</b>	<b>378.8177</b>	<b>0.1225</b>	<b>0.0000</b>	<b>381.8807</b>

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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0700e-003	0.0405	0.0162	1.9000e-004	6.5600e-003	2.1000e-004	6.7700e-003	1.9100e-003	2.0000e-004	2.1100e-003	0.0000	19.2549	19.2549	1.2100e-003	2.7900e-003	20.1160
Worker	3.4900e-003	2.2800e-003	0.0356	1.2000e-004	0.0141	7.0000e-005	0.0141	3.7600e-003	7.0000e-005	3.8300e-003	0.0000	11.1860	11.1860	2.2000e-004	2.5000e-004	11.2650
<b>Total</b>	<b>4.5600e-003</b>	<b>0.0428</b>	<b>0.0518</b>	<b>3.1000e-004</b>	<b>0.0206</b>	<b>2.8000e-004</b>	<b>0.0209</b>	<b>5.6700e-003</b>	<b>2.7000e-004</b>	<b>5.9400e-003</b>	<b>0.0000</b>	<b>30.4408</b>	<b>30.4408</b>	<b>1.4300e-003</b>	<b>3.0400e-003</b>	<b>31.3810</b>

**3.4 Utility Trenching - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0394	0.3275	0.5525	8.3000e-004		0.0192	0.0192		0.0177	0.0177	0.0000	73.2524	73.2524	0.0237	0.0000	73.8447
<b>Total</b>	<b>0.0394</b>	<b>0.3275</b>	<b>0.5525</b>	<b>8.3000e-004</b>		<b>0.0192</b>	<b>0.0192</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>73.2524</b>	<b>73.2524</b>	<b>0.0237</b>	<b>0.0000</b>	<b>73.8447</b>

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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	8.0000e-004	0.0124	4.0000e-005	5.3100e-003	3.0000e-005	5.3400e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.8950	3.8950	8.0000e-005	9.0000e-005	3.9225
<b>Total</b>	<b>1.2200e-003</b>	<b>8.0000e-004</b>	<b>0.0124</b>	<b>4.0000e-005</b>	<b>5.3100e-003</b>	<b>3.0000e-005</b>	<b>5.3400e-003</b>	<b>1.4100e-003</b>	<b>2.0000e-005</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>3.8950</b>	<b>3.8950</b>	<b>8.0000e-005</b>	<b>9.0000e-005</b>	<b>3.9225</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0394	0.3275	0.5525	8.3000e-004		0.0192	0.0192		0.0177	0.0177	0.0000	73.2524	73.2524	0.0237	0.0000	73.8446
<b>Total</b>	<b>0.0394</b>	<b>0.3275</b>	<b>0.5525</b>	<b>8.3000e-004</b>		<b>0.0192</b>	<b>0.0192</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>73.2524</b>	<b>73.2524</b>	<b>0.0237</b>	<b>0.0000</b>	<b>73.8446</b>

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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	8.0000e-004	0.0124	4.0000e-005	4.9000e-003	3.0000e-005	4.9200e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.8950	3.8950	8.0000e-005	9.0000e-005	3.9225
<b>Total</b>	<b>1.2200e-003</b>	<b>8.0000e-004</b>	<b>0.0124</b>	<b>4.0000e-005</b>	<b>4.9000e-003</b>	<b>3.0000e-005</b>	<b>4.9200e-003</b>	<b>1.3100e-003</b>	<b>2.0000e-005</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>3.8950</b>	<b>3.8950</b>	<b>8.0000e-005</b>	<b>9.0000e-005</b>	<b>3.9225</b>

**3.5 Fine Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6489	0.0000	0.6489	0.2576	0.0000	0.2576	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2045	1.9700	1.8563	4.3800e-003		0.0797	0.0797		0.0734	0.0734	0.0000	384.2688	384.2688	0.1243	0.0000	387.3758
<b>Total</b>	<b>0.2045</b>	<b>1.9700</b>	<b>1.8563</b>	<b>4.3800e-003</b>	<b>0.6489</b>	<b>0.0797</b>	<b>0.7286</b>	<b>0.2576</b>	<b>0.0734</b>	<b>0.3309</b>	<b>0.0000</b>	<b>384.2688</b>	<b>384.2688</b>	<b>0.1243</b>	<b>0.0000</b>	<b>387.3758</b>

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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0900e-003	0.0411	0.0164	2.0000e-004	7.1100e-003	2.1000e-004	7.3200e-003	2.0500e-003	2.0000e-004	2.2500e-003	0.0000	19.5319	19.5319	1.2300e-003	2.8300e-003	20.4054
Worker	3.5400e-003	2.3200e-003	0.0361	1.2000e-004	0.0155	7.0000e-005	0.0156	4.1100e-003	7.0000e-005	4.1800e-003	0.0000	11.3469	11.3469	2.3000e-004	2.5000e-004	11.4271
<b>Total</b>	<b>4.6300e-003</b>	<b>0.0434</b>	<b>0.0526</b>	<b>3.2000e-004</b>	<b>0.0226</b>	<b>2.8000e-004</b>	<b>0.0229</b>	<b>6.1600e-003</b>	<b>2.7000e-004</b>	<b>6.4300e-003</b>	<b>0.0000</b>	<b>30.8788</b>	<b>30.8788</b>	<b>1.4600e-003</b>	<b>3.0800e-003</b>	<b>31.8325</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2774	0.0000	0.2774	0.1101	0.0000	0.1101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2045	1.9700	1.8563	4.3800e-003		0.0797	0.0797		0.0734	0.0734	0.0000	384.2683	384.2683	0.1243	0.0000	387.3753
<b>Total</b>	<b>0.2045</b>	<b>1.9700</b>	<b>1.8563</b>	<b>4.3800e-003</b>	<b>0.2774</b>	<b>0.0797</b>	<b>0.3571</b>	<b>0.1101</b>	<b>0.0734</b>	<b>0.1835</b>	<b>0.0000</b>	<b>384.2683</b>	<b>384.2683</b>	<b>0.1243</b>	<b>0.0000</b>	<b>387.3753</b>

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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0900e-003	0.0411	0.0164	2.0000e-004	6.6500e-003	2.1000e-004	6.8700e-003	1.9400e-003	2.0000e-004	2.1400e-003	0.0000	19.5319	19.5319	1.2300e-003	2.8300e-003	20.4054
Worker	3.5400e-003	2.3200e-003	0.0361	1.2000e-004	0.0143	7.0000e-005	0.0143	3.8100e-003	7.0000e-005	3.8800e-003	0.0000	11.3469	11.3469	2.3000e-004	2.5000e-004	11.4271
<b>Total</b>	<b>4.6300e-003</b>	<b>0.0434</b>	<b>0.0526</b>	<b>3.2000e-004</b>	<b>0.0209</b>	<b>2.8000e-004</b>	<b>0.0212</b>	<b>5.7500e-003</b>	<b>2.7000e-004</b>	<b>6.0200e-003</b>	<b>0.0000</b>	<b>30.8788</b>	<b>30.8788</b>	<b>1.4600e-003</b>	<b>3.0800e-003</b>	<b>31.8325</b>

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0375	0.3519	0.5977	9.3000e-004		0.0172	0.0172		0.0158	0.0158	0.0000	82.0790	82.0790	0.0266	0.0000	82.7426
Paving	1.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0394</b>	<b>0.3519</b>	<b>0.5977</b>	<b>9.3000e-004</b>		<b>0.0172</b>	<b>0.0172</b>		<b>0.0158</b>	<b>0.0158</b>	<b>0.0000</b>	<b>82.0790</b>	<b>82.0790</b>	<b>0.0266</b>	<b>0.0000</b>	<b>82.7426</b>



Phase 2 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.0100e-003	0.0158	5.0000e-005	6.7500e-003	3.0000e-005	6.7800e-003	1.7900e-003	3.0000e-005	1.8200e-003	0.0000	4.9492	4.9492	1.0000e-004	1.1000e-004	4.9841
<b>Total</b>	<b>1.5500e-003</b>	<b>1.0100e-003</b>	<b>0.0158</b>	<b>5.0000e-005</b>	<b>6.7500e-003</b>	<b>3.0000e-005</b>	<b>6.7800e-003</b>	<b>1.7900e-003</b>	<b>3.0000e-005</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>4.9492</b>	<b>4.9492</b>	<b>1.0000e-004</b>	<b>1.1000e-004</b>	<b>4.9841</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0375	0.3519	0.5977	9.3000e-004		0.0172	0.0172		0.0158	0.0158	0.0000	82.0789	82.0789	0.0266	0.0000	82.7425
Paving	1.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0394</b>	<b>0.3519</b>	<b>0.5977</b>	<b>9.3000e-004</b>		<b>0.0172</b>	<b>0.0172</b>		<b>0.0158</b>	<b>0.0158</b>	<b>0.0000</b>	<b>82.0789</b>	<b>82.0789</b>	<b>0.0266</b>	<b>0.0000</b>	<b>82.7425</b>

Phase 2 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.0100e-003	0.0158	5.0000e-005	6.2200e-003	3.0000e-005	6.2600e-003	1.6600e-003	3.0000e-005	1.6900e-003	0.0000	4.9492	4.9492	1.0000e-004	1.1000e-004	4.9841
<b>Total</b>	<b>1.5500e-003</b>	<b>1.0100e-003</b>	<b>0.0158</b>	<b>5.0000e-005</b>	<b>6.2200e-003</b>	<b>3.0000e-005</b>	<b>6.2600e-003</b>	<b>1.6600e-003</b>	<b>3.0000e-005</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>4.9492</b>	<b>4.9492</b>	<b>1.0000e-004</b>	<b>1.1000e-004</b>	<b>4.9841</b>

**3.6 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0279	0.2617	0.4446	7.0000e-004		0.0128	0.0128		0.0117	0.0117	0.0000	61.0587	61.0587	0.0198	0.0000	61.5524
Paving	1.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0293</b>	<b>0.2617</b>	<b>0.4446</b>	<b>7.0000e-004</b>		<b>0.0128</b>	<b>0.0128</b>		<b>0.0117</b>	<b>0.0117</b>	<b>0.0000</b>	<b>61.0587</b>	<b>61.0587</b>	<b>0.0198</b>	<b>0.0000</b>	<b>61.5524</b>

Phase 2 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	6.9000e-004	0.0111	4.0000e-005	5.0200e-003	2.0000e-005	5.0500e-003	1.3300e-003	2.0000e-005	1.3500e-003	0.0000	3.5977	3.5977	7.0000e-005	8.0000e-005	3.6223
<b>Total</b>	<b>1.0900e-003</b>	<b>6.9000e-004</b>	<b>0.0111</b>	<b>4.0000e-005</b>	<b>5.0200e-003</b>	<b>2.0000e-005</b>	<b>5.0500e-003</b>	<b>1.3300e-003</b>	<b>2.0000e-005</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>3.5977</b>	<b>3.5977</b>	<b>7.0000e-005</b>	<b>8.0000e-005</b>	<b>3.6223</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0279	0.2617	0.4446	7.0000e-004		0.0128	0.0128		0.0117	0.0117	0.0000	61.0587	61.0587	0.0198	0.0000	61.5524
Paving	1.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0293</b>	<b>0.2617</b>	<b>0.4446</b>	<b>7.0000e-004</b>		<b>0.0128</b>	<b>0.0128</b>		<b>0.0117</b>	<b>0.0117</b>	<b>0.0000</b>	<b>61.0587</b>	<b>61.0587</b>	<b>0.0198</b>	<b>0.0000</b>	<b>61.5524</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	6.9000e-004	0.0111	4.0000e-005	4.6300e-003	2.0000e-005	4.6500e-003	1.2400e-003	2.0000e-005	1.2600e-003	0.0000	3.5977	3.5977	7.0000e-005	8.0000e-005	3.6223
<b>Total</b>	<b>1.0900e-003</b>	<b>6.9000e-004</b>	<b>0.0111</b>	<b>4.0000e-005</b>	<b>4.6300e-003</b>	<b>2.0000e-005</b>	<b>4.6500e-003</b>	<b>1.2400e-003</b>	<b>2.0000e-005</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>3.5977</b>	<b>3.5977</b>	<b>7.0000e-005</b>	<b>8.0000e-005</b>	<b>3.6223</b>

**3.7 Finishing/Landscaping - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0300e-003	0.0306	0.0511	7.0000e-005		1.2400e-003	1.2400e-003		1.1400e-003	1.1400e-003	0.0000	6.2769	6.2769	2.0300e-003	0.0000	6.3277
<b>Total</b>	<b>3.0300e-003</b>	<b>0.0306</b>	<b>0.0511</b>	<b>7.0000e-005</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>		<b>1.1400e-003</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>6.2769</b>	<b>6.2769</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>6.3277</b>

Phase 2 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.1000e-004	1.7700e-003	1.0000e-005	7.6000e-004	0.0000	7.6000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.5553	0.5553	1.0000e-005	1.0000e-005	0.5592
<b>Total</b>	<b>1.7000e-004</b>	<b>1.1000e-004</b>	<b>1.7700e-003</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.5553</b>	<b>0.5553</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5592</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0300e-003	0.0306	0.0511	7.0000e-005		1.2400e-003	1.2400e-003		1.1400e-003	1.1400e-003	0.0000	6.2769	6.2769	2.0300e-003	0.0000	6.3277
<b>Total</b>	<b>3.0300e-003</b>	<b>0.0306</b>	<b>0.0511</b>	<b>7.0000e-005</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>		<b>1.1400e-003</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>6.2769</b>	<b>6.2769</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>6.3277</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.1000e-004	1.7700e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5553	0.5553	1.0000e-005	1.0000e-005	0.5592
<b>Total</b>	<b>1.7000e-004</b>	<b>1.1000e-004</b>	<b>1.7700e-003</b>	<b>1.0000e-005</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5553</b>	<b>0.5553</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5592</b>

**3.7 Finishing/Landscaping - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.2500e-003	0.0632	0.1055	1.5000e-004		2.5600e-003	2.5600e-003		2.3500e-003	2.3500e-003	0.0000	12.9632	12.9632	4.1900e-003	0.0000	13.0680
<b>Total</b>	<b>6.2500e-003</b>	<b>0.0632</b>	<b>0.1055</b>	<b>1.5000e-004</b>		<b>2.5600e-003</b>	<b>2.5600e-003</b>		<b>2.3500e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>12.9632</b>	<b>12.9632</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>13.0680</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.1000e-004	3.4600e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.2000e-004	0.0000	1.1206	1.1206	2.0000e-005	2.0000e-005	1.1282
<b>Total</b>	<b>3.4000e-004</b>	<b>2.1000e-004</b>	<b>3.4600e-003</b>	<b>1.0000e-005</b>	<b>1.5600e-003</b>	<b>1.0000e-005</b>	<b>1.5700e-003</b>	<b>4.2000e-004</b>	<b>1.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>1.1206</b>	<b>1.1206</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.1282</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.2500e-003	0.0632	0.1055	1.5000e-004		2.5600e-003	2.5600e-003		2.3500e-003	2.3500e-003	0.0000	12.9632	12.9632	4.1900e-003	0.0000	13.0680
<b>Total</b>	<b>6.2500e-003</b>	<b>0.0632</b>	<b>0.1055</b>	<b>1.5000e-004</b>		<b>2.5600e-003</b>	<b>2.5600e-003</b>		<b>2.3500e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>12.9632</b>	<b>12.9632</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>13.0680</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.1000e-004	3.4600e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.1206	1.1206	2.0000e-005	2.0000e-005	1.1282
<b>Total</b>	<b>3.4000e-004</b>	<b>2.1000e-004</b>	<b>3.4600e-003</b>	<b>1.0000e-005</b>	<b>1.4400e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1206</b>	<b>1.1206</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.1282</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.8 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.5200e-003	0.0686	0.0885	1.5000e-004		2.9000e-003	2.9000e-003		2.7300e-003	2.7300e-003	0.0000	12.7556	12.7556	3.0000e-003	0.0000	12.8305
<b>Total</b>	<b>7.5200e-003</b>	<b>0.0686</b>	<b>0.0885</b>	<b>1.5000e-004</b>		<b>2.9000e-003</b>	<b>2.9000e-003</b>		<b>2.7300e-003</b>	<b>2.7300e-003</b>	<b>0.0000</b>	<b>12.7556</b>	<b>12.7556</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>12.8305</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0353	0.0141	1.7000e-004	6.1000e-003	1.8000e-004	6.2800e-003	1.7600e-003	1.8000e-004	1.9300e-003	0.0000	16.7614	16.7614	1.0500e-003	2.4300e-003	17.5111
Worker	9.4700e-003	6.1900e-003	0.0965	3.2000e-004	0.0414	2.0000e-004	0.0416	0.0110	1.8000e-004	0.0112	0.0000	30.3188	30.3188	6.0000e-004	6.7000e-004	30.5329
<b>Total</b>	<b>0.0104</b>	<b>0.0415</b>	<b>0.1106</b>	<b>4.9000e-004</b>	<b>0.0475</b>	<b>3.8000e-004</b>	<b>0.0478</b>	<b>0.0127</b>	<b>3.6000e-004</b>	<b>0.0131</b>	<b>0.0000</b>	<b>47.0802</b>	<b>47.0802</b>	<b>1.6500e-003</b>	<b>3.1000e-003</b>	<b>48.0440</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.5200e-003	0.0686	0.0885	1.5000e-004		2.9000e-003	2.9000e-003		2.7300e-003	2.7300e-003	0.0000	12.7556	12.7556	3.0000e-003	0.0000	12.8305
<b>Total</b>	<b>7.5200e-003</b>	<b>0.0686</b>	<b>0.0885</b>	<b>1.5000e-004</b>		<b>2.9000e-003</b>	<b>2.9000e-003</b>		<b>2.7300e-003</b>	<b>2.7300e-003</b>	<b>0.0000</b>	<b>12.7556</b>	<b>12.7556</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>12.8305</b>

**Mitigated Construction Off-Site**



Phase 2 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0353	0.0141	1.7000e-004	5.7100e-003	1.8000e-004	5.8900e-003	1.6600e-003	1.8000e-004	1.8400e-003	0.0000	16.7614	16.7614	1.0500e-003	2.4300e-003	17.5111
Worker	9.4700e-003	6.1900e-003	0.0965	3.2000e-004	0.0381	2.0000e-004	0.0383	0.0102	1.8000e-004	0.0104	0.0000	30.3188	30.3188	6.0000e-004	6.7000e-004	30.5329
<b>Total</b>	<b>0.0104</b>	<b>0.0415</b>	<b>0.1106</b>	<b>4.9000e-004</b>	<b>0.0438</b>	<b>3.8000e-004</b>	<b>0.0442</b>	<b>0.0119</b>	<b>3.6000e-004</b>	<b>0.0122</b>	<b>0.0000</b>	<b>47.0802</b>	<b>47.0802</b>	<b>1.6500e-003</b>	<b>3.1000e-003</b>	<b>48.0440</b>

3.8 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0218	0.8305	0.3335	3.8900e-003	0.1447	4.3500e-003	0.1491	0.0417	4.1600e-003	0.0459	0.0000	390.0867	390.0867	0.0253	0.0567	407.6169
Worker	0.2134	0.1344	2.1690	7.3800e-003	0.9814	4.4400e-003	0.9858	0.2606	4.0800e-003	0.2647	0.0000	702.9595	702.9595	0.0131	0.0150	707.7636
<b>Total</b>	<b>0.2352</b>	<b>0.9649</b>	<b>2.5025</b>	<b>0.0113</b>	<b>1.1261</b>	<b>8.7900e-003</b>	<b>1.1348</b>	<b>0.3024</b>	<b>8.2400e-003</b>	<b>0.3106</b>	<b>0.0000</b>	<b>1,093.0462</b>	<b>1,093.0462</b>	<b>0.0384</b>	<b>0.0717</b>	<b>1,115.3805</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0218	0.8305	0.3335	3.8900e-003	0.1355	4.3500e-003	0.1398	0.0395	4.1600e-003	0.0436	0.0000	390.0867	390.0867	0.0253	0.0567	407.6169
Worker	0.2134	0.1344	2.1690	7.3800e-003	0.9048	4.4400e-003	0.9092	0.2418	4.0800e-003	0.2459	0.0000	702.9595	702.9595	0.0131	0.0150	707.7636
<b>Total</b>	<b>0.2352</b>	<b>0.9649</b>	<b>2.5025</b>	<b>0.0113</b>	<b>1.0402</b>	<b>8.7900e-003</b>	<b>1.0490</b>	<b>0.2813</b>	<b>8.2400e-003</b>	<b>0.2895</b>	<b>0.0000</b>	<b>1,093.0462</b>	<b>1,093.0462</b>	<b>0.0384</b>	<b>0.0717</b>	<b>1,115.3805</b>

**3.8 Building Construction - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1032	0.9415	1.2144	2.0400e-003		0.0398	0.0398		0.0375	0.0375	0.0000	175.0992	175.0992	0.0412	0.0000	176.1282
<b>Total</b>	<b>0.1032</b>	<b>0.9415</b>	<b>1.2144</b>	<b>2.0400e-003</b>		<b>0.0398</b>	<b>0.0398</b>		<b>0.0375</b>	<b>0.0375</b>	<b>0.0000</b>	<b>175.0992</b>	<b>175.0992</b>	<b>0.0412</b>	<b>0.0000</b>	<b>176.1282</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0124	0.4769	0.1923	2.2000e-003	0.0837	2.5100e-003	0.0862	0.0242	2.4000e-003	0.0266	0.0000	221.0667	221.0667	0.0147	0.0323	231.0482
Worker	0.1174	0.0717	1.1958	4.1500e-003	0.5678	2.4200e-003	0.5702	0.1508	2.2300e-003	0.1530	0.0000	398.2530	398.2530	6.9700e-003	8.2900e-003	400.8990
<b>Total</b>	<b>0.1298</b>	<b>0.5486</b>	<b>1.3882</b>	<b>6.3500e-003</b>	<b>0.6515</b>	<b>4.9300e-003</b>	<b>0.6564</b>	<b>0.1749</b>	<b>4.6300e-003</b>	<b>0.1796</b>	<b>0.0000</b>	<b>619.3197</b>	<b>619.3197</b>	<b>0.0217</b>	<b>0.0406</b>	<b>631.9472</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1032	0.9415	1.2144	2.0400e-003		0.0398	0.0398		0.0375	0.0375	0.0000	175.0990	175.0990	0.0412	0.0000	176.1280
<b>Total</b>	<b>0.1032</b>	<b>0.9415</b>	<b>1.2144</b>	<b>2.0400e-003</b>		<b>0.0398</b>	<b>0.0398</b>		<b>0.0375</b>	<b>0.0375</b>	<b>0.0000</b>	<b>175.0990</b>	<b>175.0990</b>	<b>0.0412</b>	<b>0.0000</b>	<b>176.1280</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0124	0.4769	0.1923	2.2000e-003	0.0784	2.5100e-003	0.0809	0.0228	2.4000e-003	0.0252	0.0000	221.0667	221.0667	0.0147	0.0323	231.0482
Worker	0.1174	0.0717	1.1958	4.1500e-003	0.5235	2.4200e-003	0.5259	0.1399	2.2300e-003	0.1421	0.0000	398.2530	398.2530	6.9700e-003	8.2900e-003	400.8990
<b>Total</b>	<b>0.1298</b>	<b>0.5486</b>	<b>1.3882</b>	<b>6.3500e-003</b>	<b>0.6018</b>	<b>4.9300e-003</b>	<b>0.6068</b>	<b>0.1627</b>	<b>4.6300e-003</b>	<b>0.1674</b>	<b>0.0000</b>	<b>619.3197</b>	<b>619.3197</b>	<b>0.0217</b>	<b>0.0406</b>	<b>631.9472</b>

Phase 2 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.9 Architectural Coating - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.0813	0.1285	2.1000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	18.1281	18.1281	9.9000e-004	0.0000	18.1528
<b>Total</b>	<b>2.2044</b>	<b>0.0813</b>	<b>0.1285</b>	<b>2.1000e-004</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>18.1281</b>	<b>18.1281</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>18.1528</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0221	0.0135	0.2249	7.8000e-004	0.1068	4.6000e-004	0.1072	0.0284	4.2000e-004	0.0288	0.0000	74.9032	74.9032	1.3100e-003	1.5600e-003	75.4009
<b>Total</b>	<b>0.0221</b>	<b>0.0135</b>	<b>0.2249</b>	<b>7.8000e-004</b>	<b>0.1068</b>	<b>4.6000e-004</b>	<b>0.1072</b>	<b>0.0284</b>	<b>4.2000e-004</b>	<b>0.0288</b>	<b>0.0000</b>	<b>74.9032</b>	<b>74.9032</b>	<b>1.3100e-003</b>	<b>1.5600e-003</b>	<b>75.4009</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.0813	0.1285	2.1000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	18.1281	18.1281	9.9000e-004	0.0000	18.1528
<b>Total</b>	<b>2.2044</b>	<b>0.0813</b>	<b>0.1285</b>	<b>2.1000e-004</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>18.1281</b>	<b>18.1281</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>18.1528</b>

Phase 2 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0221	0.0135	0.2249	7.8000e-004	0.0985	4.6000e-004	0.0989	0.0263	4.2000e-004	0.0267	0.0000	74.9032	74.9032	1.3100e-003	1.5600e-003	75.4009
<b>Total</b>	<b>0.0221</b>	<b>0.0135</b>	<b>0.2249</b>	<b>7.8000e-004</b>	<b>0.0985</b>	<b>4.6000e-004</b>	<b>0.0989</b>	<b>0.0263</b>	<b>4.2000e-004</b>	<b>0.0267</b>	<b>0.0000</b>	<b>74.9032</b>	<b>74.9032</b>	<b>1.3100e-003</b>	<b>1.5600e-003</b>	<b>75.4009</b>

**Phase 2 Construction**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rough Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	6	No Change	0.00
Trenchers	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00

**Phase 2 Construction**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	5	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	12	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	4	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.21300E-002	8.13300E-002	1.28450E-001	2.10000E-004	3.66000E-003	3.66000E-003	0.00000E+000	1.81281E+001	1.81281E+001	9.90000E-004	0.00000E+000	1.81528E+001
Cranes	5.78900E-002	5.86270E-001	3.21350E-001	1.07000E-003	2.49200E-002	2.29300E-002	0.00000E+000	9.38190E+001	9.38190E+001	3.03400E-002	0.00000E+000	9.45776E+001
Excavators	6.71100E-002	4.90620E-001	1.30898E+000	2.08000E-003	2.40500E-002	2.21300E-002	0.00000E+000	1.82288E+002	1.82288E+002	5.89600E-002	0.00000E+000	1.83762E+002
Forklifts	5.51300E-002	5.19360E-001	7.19370E-001	9.70000E-004	2.78000E-002	2.55800E-002	0.00000E+000	8.52078E+001	8.52078E+001	2.75600E-002	0.00000E+000	8.58968E+001
Generator Sets	5.63400E-002	5.06640E-001	7.73980E-001	1.39000E-003	2.01700E-002	2.01700E-002	0.00000E+000	1.19541E+002	1.19541E+002	4.42000E-003	0.00000E+000	1.19652E+002
Graders	4.35500E-002	4.83940E-001	2.23180E-001	9.30000E-004	1.55800E-002	1.43300E-002	0.00000E+000	8.13142E+001	8.13142E+001	2.63000E-002	0.00000E+000	8.19717E+001
Pavers	2.48500E-002	2.26380E-001	4.14100E-001	6.70000E-004	1.06000E-002	9.75000E-003	0.00000E+000	5.90251E+001	5.90251E+001	1.90900E-002	0.00000E+000	5.95024E+001
Paving Equipment	2.09900E-002	1.80850E-001	3.64150E-001	5.80000E-004	8.94000E-003	8.23000E-003	0.00000E+000	5.11538E+001	5.11538E+001	1.65400E-002	0.00000E+000	5.15674E+001

**Phase 2 Construction**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Rollers	1.95800E-002	2.06350E-001	2.64080E-001	3.80000E-004	1.03800E-002	9.55000E-003	0.00000E+000	3.29588E+001	3.29588E+001	1.06600E-002	0.00000E+000	3.32253E+001
Rubber Tired Dozers	1.63430E-001	1.67379E+000	7.47640E-001	2.09000E-003	7.41500E-002	6.82200E-002	0.00000E+000	1.83802E+002	1.83802E+002	5.94500E-002	0.00000E+000	1.85288E+002
Scrapers	1.88100E-001	1.78382E+000	1.50657E+000	4.25000E-003	7.02100E-002	6.46000E-002	0.00000E+000	3.72927E+002	3.72927E+002	1.20610E-001	0.00000E+000	3.75942E+002
Tractors/Loaders/B ackhoes	1.39680E-001	1.41065E+000	2.33168E+000	3.26000E-003	5.81900E-002	5.35300E-002	0.00000E+000	2.86427E+002	2.86427E+002	9.26400E-002	0.00000E+000	2.88743E+002
Trenchers	1.90900E-002	1.78960E-001	1.56180E-001	2.10000E-004	1.19200E-002	1.09700E-002	0.00000E+000	1.80561E+001	1.80561E+001	5.84000E-003	0.00000E+000	1.82021E+001
Welders	4.64800E-002	2.83840E-001	3.49320E-001	5.40000E-004	8.65000E-003	8.65000E-003	0.00000E+000	3.98087E+001	3.98087E+001	3.78000E-003	0.00000E+000	3.99032E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	1.21300E-002	8.13300E-002	1.28450E-001	2.10000E-004	3.66000E-003	3.66000E-003	0.00000E+000	1.81281E+001	1.81281E+001	9.90000E-004	0.00000E+000	1.81528E+001
Cranes	5.78900E-002	5.86270E-001	3.21350E-001	1.07000E-003	2.49200E-002	2.29300E-002	0.00000E+000	9.38189E+001	9.38189E+001	3.03400E-002	0.00000E+000	9.45775E+001
Excavators	6.71100E-002	4.90620E-001	1.30898E+000	2.08000E-003	2.40500E-002	2.21300E-002	0.00000E+000	1.82288E+002	1.82288E+002	5.89600E-002	0.00000E+000	1.83762E+002
Forklifts	5.51300E-002	5.19360E-001	7.19360E-001	9.70000E-004	2.78000E-002	2.55800E-002	0.00000E+000	8.52077E+001	8.52077E+001	2.75600E-002	0.00000E+000	8.58967E+001
Generator Sets	5.63400E-002	5.06640E-001	7.73980E-001	1.39000E-003	2.01700E-002	2.01700E-002	0.00000E+000	1.19541E+002	1.19541E+002	4.42000E-003	0.00000E+000	1.19652E+002
Graders	4.35500E-002	4.83930E-001	2.23180E-001	9.30000E-004	1.55800E-002	1.43300E-002	0.00000E+000	8.13141E+001	8.13141E+001	2.63000E-002	0.00000E+000	8.19716E+001
Pavers	2.48500E-002	2.26380E-001	4.14100E-001	6.70000E-004	1.06000E-002	9.75000E-003	0.00000E+000	5.90250E+001	5.90250E+001	1.90900E-002	0.00000E+000	5.95023E+001
Paving Equipment	2.09900E-002	1.80850E-001	3.64150E-001	5.80000E-004	8.94000E-003	8.23000E-003	0.00000E+000	5.11537E+001	5.11537E+001	1.65400E-002	0.00000E+000	5.15673E+001
Rollers	1.95800E-002	2.06350E-001	2.64080E-001	3.80000E-004	1.03800E-002	9.55000E-003	0.00000E+000	3.29588E+001	3.29588E+001	1.06600E-002	0.00000E+000	3.32253E+001
Rubber Tired Dozers	1.63430E-001	1.67379E+000	7.47640E-001	2.09000E-003	7.41500E-002	6.82200E-002	0.00000E+000	1.83802E+002	1.83802E+002	5.94500E-002	0.00000E+000	1.85288E+002
Scrapers	1.88100E-001	1.78382E+000	1.50657E+000	4.25000E-003	7.02100E-002	6.46000E-002	0.00000E+000	3.72926E+002	3.72926E+002	1.20610E-001	0.00000E+000	3.75941E+002
Tractors/Loaders/Bac khoes	1.39680E-001	1.41064E+000	2.33167E+000	3.26000E-003	5.81900E-002	5.35300E-002	0.00000E+000	2.86426E+002	2.86426E+002	9.26400E-002	0.00000E+000	2.88742E+002



### Phase 2 Construction

#### EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trenchers	1.90900E-002	1.78960E-001	1.56180E-001	2.10000E-004	1.19200E-002	1.09700E-002	0.00000E+000	1.80560E+001	1.80560E+001	5.84000E-003	0.00000E+000	1.82020E+001
Welders	4.64800E-002	2.83840E-001	3.49320E-001	5.40000E-004	8.65000E-003	8.65000E-003	0.00000E+000	3.98086E+001	3.98086E+001	3.78000E-003	0.00000E+000	3.99032E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10326E-006	1.10326E-006	0.00000E+000	0.00000E+000	1.10176E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17247E-006	1.17247E-006	0.00000E+000	0.00000E+000	1.26880E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20688E-006	1.20688E-006	0.00000E+000	0.00000E+000	1.19720E-006
Forklifts	0.00000E+000	0.00000E+000	1.39011E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17360E-006	1.17360E-006	0.00000E+000	0.00000E+000	1.28061E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25480E-006	1.25480E-006	0.00000E+000	0.00000E+000	1.17006E-006
Graders	0.00000E+000	2.06637E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22980E-006	1.22980E-006	0.00000E+000	0.00000E+000	1.21993E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18594E-006	1.18594E-006	0.00000E+000	0.00000E+000	1.17642E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17293E-006	1.17293E-006	0.00000E+000	0.00000E+000	1.16353E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21364E-006	1.21364E-006	0.00000E+000	0.00000E+000	1.20390E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19694E-006	1.19694E-006	0.00000E+000	0.00000E+000	1.18734E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20667E-006	1.20667E-006	0.00000E+000	0.00000E+000	1.19699E-006
Tractors/Loaders/Bac khoes	0.00000E+000	7.08893E-006	4.28875E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18704E-006	1.18704E-006	0.00000E+000	0.00000E+000	1.21215E-006
Trenchers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10766E-006	1.10766E-006	0.00000E+000	0.00000E+000	1.09878E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.00481E-006	1.00481E-006	0.00000E+000	0.00000E+000	1.25303E-006

### Phase 2 Construction

#### EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

#### Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.11	0.03	0.10	0.03	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	1.82	0.49	1.69	0.46	0.08	0.07
Fine Grading	Fugitive Dust	0.65	0.26	0.28	0.11	0.57	0.57
Fine Grading	Roads	0.02	0.01	0.02	0.01	0.07	0.07
Finishing/Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	Roads	0.00	0.00	0.00	0.00	0.08	0.08

**Phase 2 Construction**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Rough Grading	Fugitive Dust	0.64	0.25	0.27	0.11	0.57	0.57
Rough Grading	Roads	0.02	0.00	0.02	0.01	0.07	0.07
Site Preparation	Fugitive Dust	0.74	0.36	0.32	0.15	0.57	0.57
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Utility Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	Roads	0.01	0.00	0.00	0.00	0.08	0.07

# CalEEMod Output: Phase 3 Construction

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Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 3 Construction  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	135.00	Dwelling Unit	74.50	243,000.00	386
Other Non-Asphalt Surfaces	23.90	Acre	23.90	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2030

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase - See assumptions file in the AQ/GHG appendix of the DEIR.

Off-road Equipment - Assume for modeling purposes.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Assume for modeling purposes.

Off-road Equipment -

Off-road Equipment -

Grading -

Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	110.00	142.00
tblConstructionPhase	NumDays	1,550.00	574.00
tblConstructionPhase	NumDays	155.00	235.00
tblConstructionPhase	NumDays	110.00	141.00
tblConstructionPhase	NumDays	60.00	47.00
tblConstructionPhase	NumDays	155.00	190.00
tblConstructionPhase	PhaseEndDate	7/28/2034	5/31/2030
tblConstructionPhase	PhaseEndDate	9/23/2033	5/31/2030
tblConstructionPhase	PhaseEndDate	10/15/2027	8/31/2027
tblConstructionPhase	PhaseEndDate	2/24/2034	3/18/2028
tblConstructionPhase	PhaseEndDate	3/12/2027	10/6/2026
tblConstructionPhase	PhaseStartDate	2/25/2034	11/15/2029
tblConstructionPhase	PhaseStartDate	10/16/2027	3/21/2028
tblConstructionPhase	PhaseStartDate	3/13/2027	10/7/2026
tblConstructionPhase	PhaseStartDate	9/24/2033	9/3/2027
tblConstructionPhase	PhaseStartDate	12/19/2026	8/1/2026
tblLandUse	LandUseSquareFeet	1,041,084.00	0.00
tblLandUse	LotAcreage	43.83	74.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	2.9642	28.5221	27.0687	0.0665	19.9094	1.1349	20.9986	10.1705	1.0442	11.1727	0.0000	6,487.2330	6,487.2330	1.9658	0.0469	6,550.3612
2027	6.5926	62.4552	63.4145	0.1472	19.1483	2.5875	21.7358	7.5087	2.3807	9.8894	0.0000	14,359.7569	14,359.7569	4.3642	0.0934	14,496.6941
2028	4.0445	38.4425	44.2402	0.0936	9.7306	1.6080	11.3386	3.7958	1.4794	5.2753	0.0000	9,131.2152	9,131.2152	2.7791	0.0480	9,215.0084
2029	12.3792	14.1520	19.4113	0.0368	0.7490	0.5841	1.3331	0.2007	0.5525	0.7532	0.0000	3,585.2624	3,585.2624	0.6411	0.0452	3,614.7503
2030	12.2745	9.3209	19.4274	0.0407	0.7490	0.1733	0.9223	0.2007	0.1730	0.3737	0.0000	3,914.3155	3,914.3155	0.1520	0.0443	3,931.3219
<b>Maximum</b>	<b>12.3792</b>	<b>62.4552</b>	<b>63.4145</b>	<b>0.1472</b>	<b>19.9094</b>	<b>2.5875</b>	<b>21.7358</b>	<b>10.1705</b>	<b>2.3807</b>	<b>11.1727</b>	<b>0.0000</b>	<b>14,359.7569</b>	<b>14,359.7569</b>	<b>4.3642</b>	<b>0.0934</b>	<b>14,496.6941</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	2.9642	28.5221	27.0687	0.0665	8.6367	1.1349	9.7259	4.3822	1.0442	5.3843	0.0000	6,487.2330	6,487.2330	1.9658	0.0469	6,550.3612
2027	6.5926	62.4552	63.4145	0.1472	8.5551	2.5875	11.1425	3.3116	2.3807	5.6923	0.0000	14,359.7569	14,359.7569	4.3642	0.0934	14,496.6941
2028	4.0445	38.4425	44.2402	0.0936	4.4218	1.6080	6.0297	1.6943	1.4794	3.1737	0.0000	9,131.2151	9,131.2151	2.7791	0.0480	9,215.0084
2029	12.3792	14.1520	19.4113	0.0368	0.6916	0.5841	1.2758	0.1866	0.5525	0.7391	0.0000	3,585.2624	3,585.2624	0.6411	0.0452	3,614.7503
2030	12.2745	9.3209	19.4274	0.0407	0.6916	0.1733	0.8650	0.1866	0.1730	0.3596	0.0000	3,914.3155	3,914.3155	0.1520	0.0443	3,931.3219
<b>Maximum</b>	<b>12.3792</b>	<b>62.4552</b>	<b>63.4145</b>	<b>0.1472</b>	<b>8.6367</b>	<b>2.5875</b>	<b>11.1425</b>	<b>4.3822</b>	<b>2.3807</b>	<b>5.6923</b>	<b>0.0000</b>	<b>14,359.7569</b>	<b>14,359.7569</b>	<b>4.3642</b>	<b>0.0934</b>	<b>14,496.6941</b>



Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	54.27	0.00	48.45	55.38	0.00	44.11	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2026	10/6/2026	5	47	
2	Rough Grading	Grading	10/7/2026	8/31/2027	5	235	
3	Utility Trenching	Trenching	3/20/2027	11/5/2027	5	165	
4	Fine Grading	Grading	6/27/2027	3/18/2028	5	190	
5	Paving	Paving	9/3/2027	3/18/2028	5	141	
6	Finishing/Landscaping	Trenching	11/8/2027	5/25/2028	5	144	
7	Building Construction	Building Construction	3/21/2028	5/31/2030	5	574	
8	Architectural Coating	Architectural Coating	11/15/2029	5/31/2030	5	142	

Acres of Grading (Site Preparation Phase): 70.5

Acres of Grading (Grading Phase): 705

Acres of Paving: 23.9

Residential Indoor: 492,075; Residential Outdoor: 164,025; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fine Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Fine Grading	Graders	1	8.00	187	0.41
Rough Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Rough Grading	Graders	1	8.00	187	0.41

Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	49.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Clean Paved Roads

**3.2 Site Preparation - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7300e-003	0.2762	0.1146	1.3600e-003	0.0512	1.5100e-003	0.0527	0.0147	1.4500e-003	0.0162		149.6736	149.6736	9.7200e-003	0.0217	156.3962
Worker	0.0427	0.0242	0.4577	1.5400e-003	0.2012	8.9000e-004	0.2021	0.0534	8.2000e-004	0.0542		161.6439	161.6439	2.8400e-003	3.0900e-003	162.6366
<b>Total</b>	<b>0.0504</b>	<b>0.3004</b>	<b>0.5722</b>	<b>2.9000e-003</b>	<b>0.2524</b>	<b>2.4000e-003</b>	<b>0.2548</b>	<b>0.0681</b>	<b>2.2700e-003</b>	<b>0.0704</b>		<b>311.3175</b>	<b>311.3175</b>	<b>0.0126</b>	<b>0.0248</b>	<b>319.0328</b>

**Mitigated Construction On-Site**

Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.0868</b>	<b>9.4902</b>	<b>4.3188</b>	<b>0.9999</b>	<b>5.3187</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7300e-003	0.2762	0.1146	1.3600e-003	0.0479	1.5100e-003	0.0494	0.0139	1.4500e-003	0.0154		149.6736	149.6736	9.7200e-003	0.0217	156.3962
Worker	0.0427	0.0242	0.4577	1.5400e-003	0.1855	8.9000e-004	0.1864	0.0495	8.2000e-004	0.0503		161.6439	161.6439	2.8400e-003	3.0900e-003	162.6366
<b>Total</b>	<b>0.0504</b>	<b>0.3004</b>	<b>0.5722</b>	<b>2.9000e-003</b>	<b>0.2333</b>	<b>2.4000e-003</b>	<b>0.2357</b>	<b>0.0634</b>	<b>2.2700e-003</b>	<b>0.0657</b>		<b>311.3175</b>	<b>311.3175</b>	<b>0.0126</b>	<b>0.0248</b>	<b>319.0328</b>

**3.3 Rough Grading - 2026**

Unmitigated Construction On-Site

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

Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000		0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432	6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>	<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0155	0.5523	0.2291	2.7100e-003	0.1023	3.0300e-003	0.1053	0.0294	2.8900e-003	0.0323		299.3473	299.3473	0.0194	0.0435	312.7924
Worker	0.0475	0.0289	0.5085	1.7100e-003	0.2236	9.9000e-004	0.2246	0.0593	9.1000e-004	0.0602		179.6043	179.6043	3.1500e-003	3.4400e-003	180.7073
<b>Total</b>	<b>0.0629</b>	<b>0.5792</b>	<b>0.7376</b>	<b>4.4200e-003</b>	<b>0.3259</b>	<b>4.0200e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8000e-003</b>	<b>0.0925</b>		<b>478.9516</b>	<b>478.9516</b>	<b>0.0226</b>	<b>0.0469</b>	<b>493.4997</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

Phase 3 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0155	0.5523	0.2291	2.7100e-003	0.0957	3.0300e-003	0.0988	0.0278	2.8900e-003	0.0307		299.3473	299.3473	0.0194	0.0435	312.7924
Worker	0.0475	0.0269	0.5085	1.7100e-003	0.2061	9.9000e-004	0.2071	0.0550	9.1000e-004	0.0559		179.6043	179.6043	3.1500e-003	3.4400e-003	180.7073
<b>Total</b>	<b>0.0629</b>	<b>0.5792</b>	<b>0.7376</b>	<b>4.4200e-003</b>	<b>0.3018</b>	<b>4.0200e-003</b>	<b>0.3058</b>	<b>0.0828</b>	<b>3.8000e-003</b>	<b>0.0866</b>		<b>478.9516</b>	<b>478.9516</b>	<b>0.0226</b>	<b>0.0469</b>	<b>493.4997</b>

**3.3 Rough Grading - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.5482	0.2284	2.6500e-003	0.1023	3.0200e-003	0.1053	0.0294	2.8900e-003	0.0323		293.2215	293.2215	0.0196	0.0428	306.4542
Worker	0.0451	0.0248	0.4845	1.6600e-003	0.2236	9.4000e-004	0.2245	0.0593	8.6000e-004	0.0602		175.8709	175.8709	2.9000e-003	3.2800e-003	176.9210
<b>Total</b>	<b>0.0603</b>	<b>0.5730</b>	<b>0.7129</b>	<b>4.3100e-003</b>	<b>0.3259</b>	<b>3.9600e-003</b>	<b>0.3298</b>	<b>0.0887</b>	<b>3.7500e-003</b>	<b>0.0925</b>		<b>469.0924</b>	<b>469.0924</b>	<b>0.0225</b>	<b>0.0460</b>	<b>483.3752</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

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

Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.5482	0.2284	2.6500e-003	0.0957	3.0200e-003	0.0988	0.0278	2.8900e-003	0.0307	293.2215	293.2215	0.0196	0.0428	306.4542	
Worker	0.0451	0.0248	0.4845	1.6600e-003	0.2061	9.4000e-004	0.2070	0.0550	8.6000e-004	0.0559	175.8709	175.8709	2.9000e-003	3.2800e-003	176.9210	
<b>Total</b>	<b>0.0603</b>	<b>0.5730</b>	<b>0.7129</b>	<b>4.3100e-003</b>	<b>0.3018</b>	<b>3.9600e-003</b>	<b>0.3058</b>	<b>0.0828</b>	<b>3.7500e-003</b>	<b>0.0866</b>	<b>469.0924</b>	<b>469.0924</b>	<b>0.0225</b>	<b>0.0460</b>	<b>483.3752</b>	

**3.4 Utility Trenching - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6515	5.4135	9.1328	0.0138		0.3174	0.3174		0.2920	0.2920		1,334.6610	1,334.6610	0.4317		1,345.4524
<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>		<b>0.3174</b>	<b>0.3174</b>		<b>0.2920</b>	<b>0.2920</b>		<b>1,334.6610</b>	<b>1,334.6610</b>	<b>0.4317</b>		<b>1,345.4524</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0180	9.9200e-003	0.1938	6.6000e-004	0.0894	3.7000e-004	0.0898	0.0237	3.4000e-004	0.0241		70.3484	70.3484	1.1600e-003	1.3100e-003	70.7684
<b>Total</b>	<b>0.0180</b>	<b>9.9200e-003</b>	<b>0.1938</b>	<b>6.6000e-004</b>	<b>0.0894</b>	<b>3.7000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.4000e-004</b>	<b>0.0241</b>		<b>70.3484</b>	<b>70.3484</b>	<b>1.1600e-003</b>	<b>1.3100e-003</b>	<b>70.7684</b>



Phase 3 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6515	5.4135	9.1328	0.0138		0.3174	0.3174		0.2920	0.2920	0.0000	1,334.6610	1,334.6610	0.4317		1,345.4524
<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>		<b>0.3174</b>	<b>0.3174</b>		<b>0.2920</b>	<b>0.2920</b>	<b>0.0000</b>	<b>1,334.6610</b>	<b>1,334.6610</b>	<b>0.4317</b>		<b>1,345.4524</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0180	9.9200e-003	0.1938	6.6000e-004	0.0824	3.7000e-004	0.0828	0.0220	3.4000e-004	0.0223		70.3484	70.3484	1.1600e-003	1.3100e-003	70.7684
<b>Total</b>	<b>0.0180</b>	<b>9.9200e-003</b>	<b>0.1938</b>	<b>6.6000e-004</b>	<b>0.0824</b>	<b>3.7000e-004</b>	<b>0.0828</b>	<b>0.0220</b>	<b>3.4000e-004</b>	<b>0.0223</b>		<b>70.3484</b>	<b>70.3484</b>	<b>1.1600e-003</b>	<b>1.3100e-003</b>	<b>70.7684</b>

**3.5 Fine Grading - 2027**

**Unmitigated Construction On-Site**

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000				0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432			6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>			<b>6,056.8614</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.5482	0.2284	2.6500e-003	0.1023	3.0200e-003	0.1053	0.0294	2.8900e-003	0.0323		293.2215	293.2215	0.0196	0.0428		306.4542
Worker	0.0451	0.0248	0.4845	1.6600e-003	0.2236	9.4000e-004	0.2245	0.0593	8.6000e-004	0.0602		175.8709	175.8709	2.9000e-003	3.2800e-003		176.9210
<b>Total</b>	<b>0.0603</b>	<b>0.5730</b>	<b>0.7129</b>	<b>4.3100e-003</b>	<b>0.3259</b>	<b>3.9600e-003</b>	<b>0.3298</b>	<b>0.0887</b>	<b>3.7500e-003</b>	<b>0.0925</b>		<b>469.0924</b>	<b>469.0924</b>	<b>0.0225</b>	<b>0.0460</b>		<b>483.3752</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000

Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0152	0.5482	0.2284	2.6500e-003	0.0957	3.0200e-003	0.0988	0.0278	2.8900e-003	0.0307		293.2215	293.2215	0.0196	0.0428	306.4542
Worker	0.0451	0.0248	0.4845	1.6600e-003	0.2061	9.4000e-004	0.2070	0.0550	8.6000e-004	0.0559		175.8709	175.8709	2.9000e-003	3.2800e-003	176.9210
<b>Total</b>	<b>0.0603</b>	<b>0.5730</b>	<b>0.7129</b>	<b>4.3100e-003</b>	<b>0.3018</b>	<b>3.9600e-003</b>	<b>0.3058</b>	<b>0.0828</b>	<b>3.7500e-003</b>	<b>0.0866</b>		<b>469.0924</b>	<b>469.0924</b>	<b>0.0225</b>	<b>0.0460</b>	<b>483.3752</b>

**3.5 Fine Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0151	0.5445	0.2283	2.5900e-003	0.1023	3.0100e-003	0.1053	0.0284	2.8800e-003	0.0323		287.3722	287.3722	0.0198	0.0421	300.3992
Worker	0.0429	0.0230	0.4643	1.6200e-003	0.2236	8.7000e-004	0.2244	0.0593	8.0000e-004	0.0601		172.6237	172.6237	2.6800e-003	3.1500e-003	173.6296
<b>Total</b>	<b>0.0579</b>	<b>0.5675</b>	<b>0.6926</b>	<b>4.2100e-003</b>	<b>0.3259</b>	<b>3.8800e-003</b>	<b>0.3297</b>	<b>0.0887</b>	<b>3.6800e-003</b>	<b>0.0924</b>		<b>459.9959</b>	<b>459.9959</b>	<b>0.0225</b>	<b>0.0452</b>	<b>474.0288</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0151	0.5445	0.2283	2.5900e-003	0.0957	3.0100e-003	0.0987	0.0278	2.8800e-003	0.0307	287.3722	287.3722	0.0198	0.0421	300.3992	
Worker	0.0429	0.0230	0.4643	1.6200e-003	0.2061	8.7000e-004	0.2069	0.0550	8.0000e-004	0.0558	172.6237	172.6237	2.6800e-003	3.1500e-003	173.6296	
<b>Total</b>	<b>0.0579</b>	<b>0.5675</b>	<b>0.6926</b>	<b>4.2100e-003</b>	<b>0.3018</b>	<b>3.8800e-003</b>	<b>0.3057</b>	<b>0.0828</b>	<b>3.6800e-003</b>	<b>0.0865</b>	<b>459.9959</b>	<b>459.9959</b>	<b>0.0225</b>	<b>0.0452</b>	<b>474.0288</b>	

3.6 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	0.0338	0.0186	0.3634	1.2500e-003	0.1677	7.0000e-004	0.1684	0.0445	6.5000e-004	0.0451		131.9032	131.9032	2.1700e-003	2.4600e-003	132.6908
<b>Total</b>	<b>0.0338</b>	<b>0.0186</b>	<b>0.3634</b>	<b>1.2500e-003</b>	<b>0.1677</b>	<b>7.0000e-004</b>	<b>0.1684</b>	<b>0.0445</b>	<b>6.5000e-004</b>	<b>0.0451</b>		<b>131.9032</b>	<b>131.9032</b>	<b>2.1700e-003</b>	<b>2.4600e-003</b>	<b>132.6908</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0338	0.0186	0.3634	1.2500e-003	0.1546	7.0000e-004	0.1553	0.0413	6.5000e-004	0.0419		131.9032	131.9032	2.1700e-003	2.4600e-003	132.6908
<b>Total</b>	<b>0.0338</b>	<b>0.0186</b>	<b>0.3634</b>	<b>1.2500e-003</b>	<b>0.1546</b>	<b>7.0000e-004</b>	<b>0.1553</b>	<b>0.0413</b>	<b>6.5000e-004</b>	<b>0.0419</b>		<b>131.9032</b>	<b>131.9032</b>	<b>2.1700e-003</b>	<b>2.4600e-003</b>	<b>132.6908</b>

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0322	0.0173	0.3482	1.2100e-003	0.1677	6.6000e-004	0.1683	0.0445	6.0000e-004	0.0451		129.4678	129.4678	2.0100e-003	2.3600e-003	130.2222
<b>Total</b>	<b>0.0322</b>	<b>0.0173</b>	<b>0.3482</b>	<b>1.2100e-003</b>	<b>0.1677</b>	<b>6.6000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>6.0000e-004</b>	<b>0.0451</b>		<b>129.4678</b>	<b>129.4678</b>	<b>2.0100e-003</b>	<b>2.3600e-003</b>	<b>130.2222</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0322	0.0173	0.3482	1.2100e-003	0.1546	6.6000e-004	0.1552	0.0413	6.0000e-004	0.0419		129.4678	129.4678	2.0100e-003	2.3600e-003	130.2222
<b>Total</b>	<b>0.0322</b>	<b>0.0173</b>	<b>0.3482</b>	<b>1.2100e-003</b>	<b>0.1546</b>	<b>6.6000e-004</b>	<b>0.1552</b>	<b>0.0413</b>	<b>6.0000e-004</b>	<b>0.0419</b>		<b>129.4678</b>	<b>129.4678</b>	<b>2.0100e-003</b>	<b>2.3600e-003</b>	<b>130.2222</b>

**3.7 Finishing/Landscaping - 2027**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496		300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>		<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>



Phase 3 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7600e-003	3.7200e-003	0.0727	2.5000e-004	0.0335	1.4000e-004	0.0337	8.8900e-003	1.3000e-004	9.0200e-003		26.3806	26.3806	4.3000e-004	4.9000e-004	26.5382
<b>Total</b>	<b>6.7600e-003</b>	<b>3.7200e-003</b>	<b>0.0727</b>	<b>2.5000e-004</b>	<b>0.0335</b>	<b>1.4000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.3000e-004</b>	<b>9.0200e-003</b>		<b>26.3806</b>	<b>26.3806</b>	<b>4.3000e-004</b>	<b>4.9000e-004</b>	<b>26.5382</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496	0.0000	300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

**Mitigated Construction Off-Site**

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.7600e-003	3.7200e-003	0.0727	2.5000e-004	0.0309	1.4000e-004	0.0311	8.2500e-003	1.3000e-004	8.3800e-003		26.3806	26.3806	4.3000e-004	4.9000e-004	26.5382
<b>Total</b>	<b>6.7600e-003</b>	<b>3.7200e-003</b>	<b>0.0727</b>	<b>2.5000e-004</b>	<b>0.0309</b>	<b>1.4000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.3000e-004</b>	<b>8.3800e-003</b>		<b>26.3806</b>	<b>26.3806</b>	<b>4.3000e-004</b>	<b>4.9000e-004</b>	<b>26.5382</b>

3.7 Finishing/Landscaping - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496		300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>		<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	6.4300e-003	3.4600e-003	0.0697	2.4000e-004	0.0335	1.3000e-004	0.0337	8.8900e-003	1.2000e-004	9.0100e-003		25.8936	25.8936	4.0000e-004	4.7000e-004	26.0444
<b>Total</b>	<b>6.4300e-003</b>	<b>3.4600e-003</b>	<b>0.0697</b>	<b>2.4000e-004</b>	<b>0.0335</b>	<b>1.3000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.2000e-004</b>	<b>9.0100e-003</b>		<b>25.8936</b>	<b>25.8936</b>	<b>4.0000e-004</b>	<b>4.7000e-004</b>	<b>26.0444</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496	0.0000	300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4300e-003	3.4600e-003	0.0697	2.4000e-004	0.0309	1.3000e-004	0.0310	8.2500e-003	1.2000e-004	8.3700e-003		25.8936	25.8936	4.0000e-004	4.7000e-004	26.0444
<b>Total</b>	<b>6.4300e-003</b>	<b>3.4600e-003</b>	<b>0.0697</b>	<b>2.4000e-004</b>	<b>0.0309</b>	<b>1.3000e-004</b>	<b>0.0310</b>	<b>8.2500e-003</b>	<b>1.2000e-004</b>	<b>8.3700e-003</b>		<b>25.8936</b>	<b>25.8936</b>	<b>4.0000e-004</b>	<b>4.7000e-004</b>	<b>26.0444</b>

3.8 Building Construction - 2028

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0132	0.4764	0.1997	2.2700e-003	0.0895	2.6300e-003	0.0921	0.0258	2.5200e-003	0.0283		251.4507	251.4507	0.0173	0.0368	262.8493
Worker	0.1050	0.0565	1.1376	3.9700e-003	0.5477	2.1400e-003	0.5498	0.1453	1.9700e-003	0.1472		422.9281	422.9281	6.5600e-003	7.7200e-003	425.3925
<b>Total</b>	<b>0.1182</b>	<b>0.5329</b>	<b>1.3373</b>	<b>6.2400e-003</b>	<b>0.6372</b>	<b>4.7700e-003</b>	<b>0.6420</b>	<b>0.1710</b>	<b>4.4900e-003</b>	<b>0.1755</b>		<b>674.3788</b>	<b>674.3788</b>	<b>0.0239</b>	<b>0.0445</b>	<b>688.2418</b>

**Mitigated Construction On-Site**

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

Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0132	0.4764	0.1997	2.2700e-003	0.0838	2.6300e-003	0.0864	0.0244	2.5200e-003	0.0269		251.4507	251.4507	0.0173	0.0368	262.8493
Worker	0.1050	0.0585	1.1376	3.9700e-003	0.5049	2.1400e-003	0.5070	0.1347	1.9700e-003	0.1367		422.9281	422.9281	6.5600e-003	7.7200e-003	425.3925
<b>Total</b>	<b>0.1182</b>	<b>0.5329</b>	<b>1.3373</b>	<b>6.2400e-003</b>	<b>0.5886</b>	<b>4.7700e-003</b>	<b>0.5934</b>	<b>0.1591</b>	<b>4.4900e-003</b>	<b>0.1636</b>		<b>674.3788</b>	<b>674.3788</b>	<b>0.0239</b>	<b>0.0445</b>	<b>688.2418</b>

**3.8 Building Construction - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0130	0.4733	0.1997	2.2200e-003	0.0895	2.6200e-003	0.0921	0.0258	2.5100e-003	0.0283		246.5409	246.5409	0.0174	0.0362	257.7655
Worker	0.0997	0.0528	1.0944	3.8700e-003	0.5477	2.0000e-003	0.5497	0.1453	1.8400e-003	0.1471		415.9179	415.9179	6.0800e-003	7.4500e-003	418.2896
<b>Total</b>	<b>0.1127</b>	<b>0.5261</b>	<b>1.2941</b>	<b>6.0900e-003</b>	<b>0.6372</b>	<b>4.6200e-003</b>	<b>0.6418</b>	<b>0.1710</b>	<b>4.3500e-003</b>	<b>0.1754</b>		<b>662.4588</b>	<b>662.4588</b>	<b>0.0235</b>	<b>0.0437</b>	<b>676.0551</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

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

Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0130	0.4733	0.1997	2.2200e-003	0.0838	2.6200e-003	0.0864	0.0244	2.5100e-003	0.0269	246.5409	246.5409	0.0174	0.0362	257.7655	
Worker	0.0997	0.0528	1.0944	3.8700e-003	0.5049	2.0000e-003	0.5069	0.1347	1.8400e-003	0.1366	415.9179	415.9179	6.0800e-003	7.4500e-003	418.2896	
<b>Total</b>	<b>0.1127</b>	<b>0.5261</b>	<b>1.2941</b>	<b>6.0900e-003</b>	<b>0.5886</b>	<b>4.6200e-003</b>	<b>0.5932</b>	<b>0.1591</b>	<b>4.3500e-003</b>	<b>0.1634</b>	<b>662.4588</b>	<b>662.4588</b>	<b>0.0235</b>	<b>0.0437</b>	<b>676.0551</b>	

**3.8 Building Construction - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0129	0.4703	0.1996	2.1800e-003	0.0895	2.6100e-003	0.0921	0.0258	2.5000e-003	0.0283		241.8298	241.8298	0.0176	0.0356	252.8850
Worker	0.0946	0.0496	1.0573	3.7900e-003	0.5477	1.8700e-003	0.5496	0.1453	1.7200e-003	0.1470		409.8484	409.8484	5.6500e-003	7.2200e-003	412.1409
<b>Total</b>	<b>0.1075</b>	<b>0.5199</b>	<b>1.2569</b>	<b>5.9700e-003</b>	<b>0.6372</b>	<b>4.4800e-003</b>	<b>0.6417</b>	<b>0.1710</b>	<b>4.2200e-003</b>	<b>0.1752</b>		<b>651.6782</b>	<b>651.6782</b>	<b>0.0232</b>	<b>0.0429</b>	<b>665.0259</b>

Phase 3 Construction - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0129	0.4703	0.1996	2.1800e-003	0.0838	2.6100e-003	0.0864	0.0244	2.5000e-003	0.0269		241.8298	241.8298	0.0176	0.0356	252.8850
Worker	0.0946	0.0496	1.0573	3.7900e-003	0.5049	1.8700e-003	0.5067	0.1347	1.7200e-003	0.1365		409.8484	409.8484	5.6500e-003	7.2200e-003	412.1409
<b>Total</b>	<b>0.1075</b>	<b>0.5199</b>	<b>1.2569</b>	<b>5.9700e-003</b>	<b>0.5886</b>	<b>4.4800e-003</b>	<b>0.5931</b>	<b>0.1591</b>	<b>4.2200e-003</b>	<b>0.1633</b>		<b>651.6782</b>	<b>651.6782</b>	<b>0.0232</b>	<b>0.0429</b>	<b>665.0259</b>

**3.9 Architectural Coating - 2029**

**Unmitigated Construction On-Site**



Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.7078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>10.8787</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	0.0108	0.2234	7.9000e-004	0.1118	4.1000e-004	0.1122	0.0296	3.8000e-004	0.0300		84.8812	84.8812	1.2400e-003	1.5200e-003	85.3652
<b>Total</b>	<b>0.0204</b>	<b>0.0108</b>	<b>0.2234</b>	<b>7.9000e-004</b>	<b>0.1118</b>	<b>4.1000e-004</b>	<b>0.1122</b>	<b>0.0296</b>	<b>3.8000e-004</b>	<b>0.0300</b>		<b>84.8812</b>	<b>84.8812</b>	<b>1.2400e-003</b>	<b>1.5200e-003</b>	<b>85.3652</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.7078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>10.8787</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0204	0.0108	0.2234	7.9000e-004	0.1030	4.1000e-004	0.1034	0.0275	3.8000e-004	0.0279		84.8812	84.8812	1.2400e-003	1.5200e-003	85.3652
<b>Total</b>	<b>0.0204</b>	<b>0.0108</b>	<b>0.2234</b>	<b>7.9000e-004</b>	<b>0.1030</b>	<b>4.1000e-004</b>	<b>0.1034</b>	<b>0.0275</b>	<b>3.8000e-004</b>	<b>0.0279</b>		<b>84.8812</b>	<b>84.8812</b>	<b>1.2400e-003</b>	<b>1.5200e-003</b>	<b>85.3652</b>

**3.9 Architectural Coating - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.7078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>10.8386</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Phase 3 Construction - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0193	0.0101	0.2158	7.7000e-004	0.1118	3.8000e-004	0.1122	0.0296	3.5000e-004	0.0300		83.6425	83.6425	1.1500e-003	1.4700e-003	84.1104
<b>Total</b>	<b>0.0193</b>	<b>0.0101</b>	<b>0.2158</b>	<b>7.7000e-004</b>	<b>0.1118</b>	<b>3.8000e-004</b>	<b>0.1122</b>	<b>0.0296</b>	<b>3.5000e-004</b>	<b>0.0300</b>		<b>83.6425</b>	<b>83.6425</b>	<b>1.1500e-003</b>	<b>1.4700e-003</b>	<b>84.1104</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.7078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>10.8386</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 3 Construction - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	lb/day										lb/day				
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0193	0.0101	0.2158	7.7000e-004	0.1030	3.8000e-004	0.1034	0.0275	3.5000e-004	0.0279	83.6425	83.6425	1.1500e-003	1.4700e-003	84.1104
<b>Total</b>	<b>0.0193</b>	<b>0.0101</b>	<b>0.2158</b>	<b>7.7000e-004</b>	<b>0.1030</b>	<b>3.8000e-004</b>	<b>0.1034</b>	<b>0.0275</b>	<b>3.5000e-004</b>	<b>0.0279</b>	<b>83.6425</b>	<b>83.6425</b>	<b>1.1500e-003</b>	<b>1.4700e-003</b>	<b>84.1104</b>

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 3 Construction  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	135.00	Dwelling Unit	74.50	243,000.00	386
Other Non-Asphalt Surfaces	23.90	Acre	23.90	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2030
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

- Project Characteristics -
- Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.
- Construction Phase - See assumptions file in the AQ/GHG appendix of the DEIR.
- Off-road Equipment - Assume for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assume for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	110.00	142.00
tblConstructionPhase	NumDays	1,550.00	574.00
tblConstructionPhase	NumDays	155.00	235.00
tblConstructionPhase	NumDays	110.00	141.00
tblConstructionPhase	NumDays	60.00	47.00
tblConstructionPhase	NumDays	155.00	190.00
tblConstructionPhase	PhaseEndDate	7/28/2034	5/31/2030
tblConstructionPhase	PhaseEndDate	9/23/2033	5/31/2030
tblConstructionPhase	PhaseEndDate	10/15/2027	8/31/2027
tblConstructionPhase	PhaseEndDate	2/24/2034	3/18/2028
tblConstructionPhase	PhaseEndDate	3/12/2027	10/6/2026
tblConstructionPhase	PhaseStartDate	2/25/2034	11/15/2029
tblConstructionPhase	PhaseStartDate	10/16/2027	3/21/2028
tblConstructionPhase	PhaseStartDate	3/13/2027	10/7/2026
tblConstructionPhase	PhaseStartDate	9/24/2033	9/3/2027
tblConstructionPhase	PhaseStartDate	12/19/2026	8/1/2026
tblLandUse	LandUseSquareFeet	1,041,084.00	0.00
tblLandUse	LotAcreage	43.83	74.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	2.9685	28.5495	27.0419	0.0664	19.9094	1.1349	20.9986	10.1705	1.0442	11.1727	0.0000	6,479.1591	6,479.1591	1.9658	0.0472	6,542.3818
2027	6.6030	62.5104	63.3514	0.1470	19.1483	2.5875	21.7358	7.5087	2.3807	9.8894	0.0000	14,340.635 1	14,340.635 1	4.3643	0.0941	14,477.779 2
2028	4.0528	38.4713	44.1888	0.0935	9.7306	1.6080	11.3386	3.7958	1.4795	5.2753	0.0000	9,116.1036	9,116.1036	2.7792	0.0485	9,200.0391
2029	12.3920	14.1796	19.3305	0.0366	0.7490	0.5841	1.3331	0.2007	0.5525	0.7532	0.0000	3,561.8862	3,561.8862	0.6412	0.0458	3,591.5698
2030	12.2869	9.3480	19.3495	0.0405	0.7490	0.1733	0.9223	0.2007	0.1730	0.3737	0.0000	3,891.2819	3,891.2819	0.1522	0.0450	3,908.4778
<b>Maximum</b>	<b>12.3920</b>	<b>62.5104</b>	<b>63.3514</b>	<b>0.1470</b>	<b>19.9094</b>	<b>2.5875</b>	<b>21.7358</b>	<b>10.1705</b>	<b>2.3807</b>	<b>11.1727</b>	<b>0.0000</b>	<b>14,340.635 1</b>	<b>14,340.635 1</b>	<b>4.3643</b>	<b>0.0941</b>	<b>14,477.779 2</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	2.9685	28.5495	27.0419	0.0664	8.6367	1.1349	9.7259	4.3822	1.0442	5.3843	0.0000	6,479.1591	6,479.1591	1.9658	0.0472	6,542.3818
2027	6.6030	62.5104	63.3514	0.1470	8.5551	2.5875	11.1426	3.3116	2.3807	5.6923	0.0000	14,340.635 1	14,340.635 1	4.3643	0.0941	14,477.779 2
2028	4.0528	38.4713	44.1888	0.0935	4.4218	1.6080	6.0297	1.6943	1.4795	3.1738	0.0000	9,116.1036	9,116.1036	2.7792	0.0485	9,200.0391
2029	12.3920	14.1796	19.3305	0.0366	0.6916	0.5841	1.2758	0.1866	0.5525	0.7391	0.0000	3,561.8862	3,561.8862	0.6412	0.0458	3,591.5698
2030	12.2869	9.3480	19.3495	0.0405	0.6916	0.1733	0.8650	0.1866	0.1730	0.3596	0.0000	3,891.2819	3,891.2819	0.1522	0.0450	3,908.4778
<b>Maximum</b>	<b>12.3920</b>	<b>62.5104</b>	<b>63.3514</b>	<b>0.1470</b>	<b>8.6367</b>	<b>2.5875</b>	<b>11.1426</b>	<b>4.3822</b>	<b>2.3807</b>	<b>5.6923</b>	<b>0.0000</b>	<b>14,340.635 1</b>	<b>14,340.635 1</b>	<b>4.3643</b>	<b>0.0941</b>	<b>14,477.779 2</b>

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	54.27	0.00	48.45	55.38	0.00	44.11	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2026	10/6/2026	5	47	
2	Rough Grading	Grading	10/7/2026	8/31/2027	5	235	
3	Utility Trenching	Trenching	3/20/2027	11/5/2027	5	165	
4	Fine Grading	Grading	6/27/2027	3/18/2028	5	190	
5	Paving	Paving	9/3/2027	3/18/2028	5	141	
6	Finishing/Landscaping	Trenching	11/8/2027	5/25/2028	5	144	
7	Building Construction	Building Construction	3/21/2028	5/31/2030	5	574	
8	Architectural Coating	Architectural Coating	11/15/2029	5/31/2030	5	142	

Acres of Grading (Site Preparation Phase): 70.5

Acres of Grading (Grading Phase): 705

Acres of Paving: 23.9

Residential Indoor: 492,075; Residential Outdoor: 164,025; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fine Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Fine Grading	Graders	1	8.00	187	0.41
Rough Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Rough Grading	Graders	1	8.00	187	0.41



Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	49.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Clean Paved Roads

**3.2 Site Preparation - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4400e-003	0.2886	0.1180	1.3600e-003	0.0512	1.5200e-003	0.0527	0.0147	1.4500e-003	0.0162		149.9085	149.9085	9.6900e-003	0.0218	156.6449
Worker	0.0471	0.0265	0.4273	1.4700e-003	0.2012	8.9000e-004	0.2021	0.0534	8.2000e-004	0.0542		153.9546	153.9546	2.9200e-003	3.2900e-003	155.0076
<b>Total</b>	<b>0.0546</b>	<b>0.3151</b>	<b>0.5453</b>	<b>2.8300e-003</b>	<b>0.2524</b>	<b>2.4100e-003</b>	<b>0.2548</b>	<b>0.0681</b>	<b>2.2700e-003</b>	<b>0.0704</b>		<b>303.8631</b>	<b>303.8631</b>	<b>0.0126</b>	<b>0.0251</b>	<b>311.6524</b>

**Mitigated Construction On-Site**

Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.0868</b>	<b>9.4902</b>	<b>4.3188</b>	<b>0.9999</b>	<b>5.3187</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4400e-003	0.2886	0.1180	1.3600e-003	0.0479	1.5200e-003	0.0494	0.0139	1.4500e-003	0.0154		149.9085	149.9085	9.6900e-003	0.0218	156.6449
Worker	0.0471	0.0265	0.4273	1.4700e-003	0.1855	8.9000e-004	0.1864	0.0495	8.2000e-004	0.0503		153.9546	153.9546	2.9200e-003	3.2900e-003	155.0076
<b>Total</b>	<b>0.0546</b>	<b>0.3151</b>	<b>0.5453</b>	<b>2.8300e-003</b>	<b>0.2333</b>	<b>2.4100e-003</b>	<b>0.2357</b>	<b>0.0634</b>	<b>2.2700e-003</b>	<b>0.0657</b>		<b>303.8631</b>	<b>303.8631</b>	<b>0.0126</b>	<b>0.0251</b>	<b>311.6524</b>

**3.3 Rough Grading - 2026**

Unmitigated Construction On-Site

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

Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000		0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432	6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>	<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0149	0.5772	0.2361	2.7200e-003	0.1023	3.0400e-003	0.1053	0.0294	2.9100e-003	0.0324		299.8170	299.8170	0.0194	0.0436	313.2897
Worker	0.0524	0.0295	0.4748	1.6300e-003	0.2236	9.9000e-004	0.2246	0.0593	9.1000e-004	0.0602		171.0607	171.0607	3.2400e-003	3.6500e-003	172.2306
<b>Total</b>	<b>0.0673</b>	<b>0.6066</b>	<b>0.7108</b>	<b>4.3500e-003</b>	<b>0.3259</b>	<b>4.0300e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8200e-003</b>	<b>0.0926</b>		<b>470.8777</b>	<b>470.8777</b>	<b>0.0226</b>	<b>0.0472</b>	<b>485.5203</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

Phase 3 Construction - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0149	0.5772	0.2361	2.7200e-003	0.0957	3.0400e-003	0.0988	0.0278	2.9100e-003	0.0307		299.8170	299.8170	0.0194	0.0436	313.2897
Worker	0.0524	0.0295	0.4748	1.6300e-003	0.2061	9.9000e-004	0.2071	0.0550	9.1000e-004	0.0559		171.0607	171.0607	3.2400e-003	3.6500e-003	172.2306
<b>Total</b>	<b>0.0673</b>	<b>0.6066</b>	<b>0.7108</b>	<b>4.3500e-003</b>	<b>0.3018</b>	<b>4.0300e-003</b>	<b>0.3058</b>	<b>0.0828</b>	<b>3.8200e-003</b>	<b>0.0867</b>		<b>470.8777</b>	<b>470.8777</b>	<b>0.0226</b>	<b>0.0472</b>	<b>485.5203</b>

**3.3 Rough Grading - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0147	0.5729	0.2352	2.6600e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		293.6900	293.6900	0.0195	0.0429	306.9498
Worker	0.0499	0.0272	0.4525	1.5800e-003	0.2236	9.4000e-004	0.2245	0.0593	8.6000e-004	0.0602		167.5130	167.5130	2.9800e-003	3.4900e-003	168.6268
<b>Total</b>	<b>0.0645</b>	<b>0.6001</b>	<b>0.6877</b>	<b>4.2400e-003</b>	<b>0.3259</b>	<b>3.9700e-003</b>	<b>0.3298</b>	<b>0.0887</b>	<b>3.7600e-003</b>	<b>0.0925</b>		<b>461.2030</b>	<b>461.2030</b>	<b>0.0225</b>	<b>0.0464</b>	<b>475.5766</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

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

Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0147	0.5729	0.2352	2.6600e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307	293.6900	293.6900	0.0195	0.0429	306.9498	
Worker	0.0499	0.0272	0.4525	1.5800e-003	0.2061	9.4000e-004	0.2070	0.0550	8.6000e-004	0.0559	167.5130	167.5130	2.9800e-003	3.4900e-003	168.6268	
<b>Total</b>	<b>0.0645</b>	<b>0.6001</b>	<b>0.6877</b>	<b>4.2400e-003</b>	<b>0.3018</b>	<b>3.9700e-003</b>	<b>0.3058</b>	<b>0.0828</b>	<b>3.7600e-003</b>	<b>0.0866</b>	<b>461.2030</b>	<b>461.2030</b>	<b>0.0225</b>	<b>0.0464</b>	<b>475.5766</b>	

**3.4 Utility Trenching - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6515	5.4135	9.1328	0.0138		0.3174	0.3174		0.2920	0.2920		1,334.6610	1,334.6610	0.4317		1,345.4524
<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>		<b>0.3174</b>	<b>0.3174</b>		<b>0.2920</b>	<b>0.2920</b>		<b>1,334.6610</b>	<b>1,334.6610</b>	<b>0.4317</b>		<b>1,345.4524</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0109	0.1810	6.3000e-004	0.0894	3.7000e-004	0.0898	0.0237	3.4000e-004	0.0241		67.0052	67.0052	1.1900e-003	1.3900e-003	67.4507
<b>Total</b>	<b>0.0200</b>	<b>0.0109</b>	<b>0.1810</b>	<b>6.3000e-004</b>	<b>0.0894</b>	<b>3.7000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.4000e-004</b>	<b>0.0241</b>		<b>67.0052</b>	<b>67.0052</b>	<b>1.1900e-003</b>	<b>1.3900e-003</b>	<b>67.4507</b>

Phase 3 Construction - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6515	5.4135	9.1328	0.0138		0.3174	0.3174		0.2920	0.2920	0.0000	1,334.6610	1,334.6610	0.4317		1,345.4524
<b>Total</b>	<b>0.6515</b>	<b>5.4135</b>	<b>9.1328</b>	<b>0.0138</b>		<b>0.3174</b>	<b>0.3174</b>		<b>0.2920</b>	<b>0.2920</b>	<b>0.0000</b>	<b>1,334.6610</b>	<b>1,334.6610</b>	<b>0.4317</b>		<b>1,345.4524</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0109	0.1810	6.3000e-004	0.0824	3.7000e-004	0.0828	0.0220	3.4000e-004	0.0223		67.0052	67.0052	1.1900e-003	1.3900e-003	67.4507
<b>Total</b>	<b>0.0200</b>	<b>0.0109</b>	<b>0.1810</b>	<b>6.3000e-004</b>	<b>0.0824</b>	<b>3.7000e-004</b>	<b>0.0828</b>	<b>0.0220</b>	<b>3.4000e-004</b>	<b>0.0223</b>		<b>67.0052</b>	<b>67.0052</b>	<b>1.1900e-003</b>	<b>1.3900e-003</b>	<b>67.4507</b>

**3.5 Fine Grading - 2027**

**Unmitigated Construction On-Site**



Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000				0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432			6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>			<b>6,056.8614</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0147	0.5729	0.2352	2.6600e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		293.6900	293.6900	0.0195	0.0429	306.9498
Worker	0.0499	0.0272	0.4525	1.5800e-003	0.2236	9.4000e-004	0.2245	0.0593	8.6000e-004	0.0602		167.5130	167.5130	2.9800e-003	3.4900e-003	168.6268
<b>Total</b>	<b>0.0645</b>	<b>0.6001</b>	<b>0.6877</b>	<b>4.2400e-003</b>	<b>0.3259</b>	<b>3.9700e-003</b>	<b>0.3298</b>	<b>0.0887</b>	<b>3.7600e-003</b>	<b>0.0925</b>		<b>461.2030</b>	<b>461.2030</b>	<b>0.0225</b>	<b>0.0464</b>	<b>475.5766</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000

Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0147	0.5729	0.2352	2.6600e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307		293.6900	293.6900	0.0195	0.0429	306.9498
Worker	0.0499	0.0272	0.4525	1.5800e-003	0.2061	9.4000e-004	0.2070	0.0550	8.6000e-004	0.0559		167.5130	167.5130	2.9800e-003	3.4900e-003	168.6268
<b>Total</b>	<b>0.0645</b>	<b>0.6001</b>	<b>0.6877</b>	<b>4.2400e-003</b>	<b>0.3018</b>	<b>3.9700e-003</b>	<b>0.3058</b>	<b>0.0828</b>	<b>3.7600e-003</b>	<b>0.0866</b>		<b>461.2030</b>	<b>461.2030</b>	<b>0.0225</b>	<b>0.0464</b>	<b>475.5766</b>

**3.5 Fine Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0145	0.5691	0.2350	2.6000e-003	0.1023	3.0200e-003	0.1053	0.0294	2.8900e-003	0.0323		287.8387	287.8387	0.0197	0.0422	300.8923
Worker	0.0475	0.0253	0.4338	1.5400e-003	0.2236	8.7000e-004	0.2244	0.0593	8.0000e-004	0.0601		164.4247	164.4247	2.7600e-003	3.3500e-003	165.4915
<b>Total</b>	<b>0.0620</b>	<b>0.5944</b>	<b>0.6687</b>	<b>4.1400e-003</b>	<b>0.3259</b>	<b>3.8900e-003</b>	<b>0.3298</b>	<b>0.0887</b>	<b>3.6900e-003</b>	<b>0.0924</b>		<b>452.2634</b>	<b>452.2634</b>	<b>0.0225</b>	<b>0.0455</b>	<b>466.3838</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>3.9345</b>	<b>1.1309</b>	<b>5.0654</b>	<b>1.5620</b>	<b>1.0404</b>	<b>2.6024</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0145	0.5691	0.2350	2.6000e-003	0.0957	3.0200e-003	0.0988	0.0278	2.8900e-003	0.0307	287.8387	287.8387	0.0197	0.0422	300.8923	
Worker	0.0475	0.0253	0.4338	1.5400e-003	0.2061	8.7000e-004	0.2069	0.0550	8.0000e-004	0.0558	164.4247	164.4247	2.7600e-003	3.3500e-003	165.4915	
<b>Total</b>	<b>0.0620</b>	<b>0.5944</b>	<b>0.6687</b>	<b>4.1400e-003</b>	<b>0.3018</b>	<b>3.8900e-003</b>	<b>0.3057</b>	<b>0.0828</b>	<b>3.6900e-003</b>	<b>0.0865</b>	<b>452.2634</b>	<b>452.2634</b>	<b>0.0225</b>	<b>0.0455</b>	<b>466.3838</b>	

**3.6 Paving - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	0.0374	0.0204	0.3393	1.1900e-003	0.1677	7.0000e-004	0.1684	0.0445	6.5000e-004	0.0451		125.6348	125.6348	2.2400e-003	2.6200e-003	126.4701
<b>Total</b>	<b>0.0374</b>	<b>0.0204</b>	<b>0.3393</b>	<b>1.1900e-003</b>	<b>0.1677</b>	<b>7.0000e-004</b>	<b>0.1684</b>	<b>0.0445</b>	<b>6.5000e-004</b>	<b>0.0451</b>		<b>125.6348</b>	<b>125.6348</b>	<b>2.2400e-003</b>	<b>2.6200e-003</b>	<b>126.4701</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0374	0.0204	0.3393	1.1900e-003	0.1546	7.0000e-004	0.1553	0.0413	6.5000e-004	0.0419		125.6348	125.6348	2.2400e-003	2.6200e-003	126.4701
<b>Total</b>	<b>0.0374</b>	<b>0.0204</b>	<b>0.3393</b>	<b>1.1900e-003</b>	<b>0.1546</b>	<b>7.0000e-004</b>	<b>0.1553</b>	<b>0.0413</b>	<b>6.5000e-004</b>	<b>0.0419</b>		<b>125.6348</b>	<b>125.6348</b>	<b>2.2400e-003</b>	<b>2.6200e-003</b>	<b>126.4701</b>

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0357	0.0190	0.3253	1.1600e-003	0.1677	6.6000e-004	0.1683	0.0445	6.0000e-004	0.0451		123.3185	123.3185	2.0700e-003	2.5100e-003	124.1187
<b>Total</b>	<b>0.0357</b>	<b>0.0190</b>	<b>0.3253</b>	<b>1.1600e-003</b>	<b>0.1677</b>	<b>6.6000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>6.0000e-004</b>	<b>0.0451</b>		<b>123.3185</b>	<b>123.3185</b>	<b>2.0700e-003</b>	<b>2.5100e-003</b>	<b>124.1187</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0357	0.0190	0.3253	1.1600e-003	0.1546	6.6000e-004	0.1552	0.0413	6.0000e-004	0.0419		123.3185	123.3185	2.0700e-003	2.5100e-003	124.1187
<b>Total</b>	<b>0.0357</b>	<b>0.0190</b>	<b>0.3253</b>	<b>1.1600e-003</b>	<b>0.1546</b>	<b>6.6000e-004</b>	<b>0.1552</b>	<b>0.0413</b>	<b>6.0000e-004</b>	<b>0.0419</b>		<b>123.3185</b>	<b>123.3185</b>	<b>2.0700e-003</b>	<b>2.5100e-003</b>	<b>124.1187</b>

3.7 Finishing/Landscaping - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496		300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>		<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

Phase 3 Construction - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4800e-003	4.0800e-003	0.0679	2.4000e-004	0.0335	1.4000e-004	0.0337	8.8900e-003	1.3000e-004	9.0200e-003		25.1270	25.1270	4.5000e-004	5.2000e-004	25.2940
<b>Total</b>	<b>7.4800e-003</b>	<b>4.0800e-003</b>	<b>0.0679</b>	<b>2.4000e-004</b>	<b>0.0335</b>	<b>1.4000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.3000e-004</b>	<b>9.0200e-003</b>		<b>25.1270</b>	<b>25.1270</b>	<b>4.5000e-004</b>	<b>5.2000e-004</b>	<b>25.2940</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496	0.0000	300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

**Mitigated Construction Off-Site**



Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4800e-003	4.0800e-003	0.0679	2.4000e-004	0.0309	1.4000e-004	0.0311	8.2500e-003	1.3000e-004	8.3800e-003		25.1270	25.1270	4.5000e-004	5.2000e-004	25.2940
<b>Total</b>	<b>7.4800e-003</b>	<b>4.0800e-003</b>	<b>0.0679</b>	<b>2.4000e-004</b>	<b>0.0309</b>	<b>1.4000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.3000e-004</b>	<b>8.3800e-003</b>		<b>25.1270</b>	<b>25.1270</b>	<b>4.5000e-004</b>	<b>5.2000e-004</b>	<b>25.2940</b>

3.7 Finishing/Landscaping - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496		300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>		<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	7.1300e-003	3.7900e-003	0.0651	2.3000e-004	0.0335	1.3000e-004	0.0337	8.8900e-003	1.2000e-004	9.0100e-003		24.6637	24.6637	4.1000e-004	5.0000e-004	24.8237
<b>Total</b>	<b>7.1300e-003</b>	<b>3.7900e-003</b>	<b>0.0651</b>	<b>2.3000e-004</b>	<b>0.0335</b>	<b>1.3000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.2000e-004</b>	<b>9.0100e-003</b>		<b>24.6637</b>	<b>24.6637</b>	<b>4.1000e-004</b>	<b>5.0000e-004</b>	<b>24.8237</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1316	1.3297	2.2206	3.1100e-003		0.0539	0.0539		0.0496	0.0496	0.0000	300.8313	300.8313	0.0973		303.2637
<b>Total</b>	<b>0.1316</b>	<b>1.3297</b>	<b>2.2206</b>	<b>3.1100e-003</b>		<b>0.0539</b>	<b>0.0539</b>		<b>0.0496</b>	<b>0.0496</b>	<b>0.0000</b>	<b>300.8313</b>	<b>300.8313</b>	<b>0.0973</b>		<b>303.2637</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1300e-003	3.7900e-003	0.0651	2.3000e-004	0.0309	1.3000e-004	0.0310	8.2500e-003	1.2000e-004	8.3700e-003		24.6637	24.6637	4.1000e-004	5.0000e-004	24.8237
<b>Total</b>	<b>7.1300e-003</b>	<b>3.7900e-003</b>	<b>0.0651</b>	<b>2.3000e-004</b>	<b>0.0309</b>	<b>1.3000e-004</b>	<b>0.0310</b>	<b>8.2500e-003</b>	<b>1.2000e-004</b>	<b>8.3700e-003</b>		<b>24.6637</b>	<b>24.6637</b>	<b>4.1000e-004</b>	<b>5.0000e-004</b>	<b>24.8237</b>

3.8 Building Construction - 2028

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0127	0.4980	0.2056	2.2700e-003	0.0895	2.6400e-003	0.0922	0.0258	2.5300e-003	0.0283		251.8589	251.8589	0.0173	0.0369	263.2808
Worker	0.1164	0.0619	1.0627	3.7800e-003	0.5477	2.1400e-003	0.5498	0.1453	1.9700e-003	0.1472		402.8406	402.8406	6.7500e-003	8.2000e-003	405.4543
<b>Total</b>	<b>0.1291</b>	<b>0.5599</b>	<b>1.2683</b>	<b>6.0500e-003</b>	<b>0.6372</b>	<b>4.7800e-003</b>	<b>0.6420</b>	<b>0.1710</b>	<b>4.5000e-003</b>	<b>0.1755</b>		<b>654.6994</b>	<b>654.6994</b>	<b>0.0240</b>	<b>0.0451</b>	<b>668.7350</b>

**Mitigated Construction On-Site**

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

Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0127	0.4980	0.2056	2.2700e-003	0.0838	2.6400e-003	0.0864	0.0244	2.5300e-003	0.0269		251.8589	251.8589	0.0173	0.0369	263.2808
Worker	0.1164	0.0619	1.0627	3.7800e-003	0.5049	2.1400e-003	0.5070	0.1347	1.9700e-003	0.1367		402.8406	402.8406	6.7500e-003	8.2000e-003	405.4543
<b>Total</b>	<b>0.1291</b>	<b>0.5599</b>	<b>1.2683</b>	<b>6.0500e-003</b>	<b>0.5886</b>	<b>4.7800e-003</b>	<b>0.5934</b>	<b>0.1591</b>	<b>4.5000e-003</b>	<b>0.1636</b>		<b>654.6994</b>	<b>654.6994</b>	<b>0.0240</b>	<b>0.0451</b>	<b>668.7350</b>

**3.8 Building Construction - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.4947	0.2054	2.2300e-003	0.0895	2.6300e-003	0.0921	0.0258	2.5200e-003	0.0283		246.9466	246.9466	0.0174	0.0363	258.1941
Worker	0.1108	0.0579	1.0226	3.6900e-003	0.5477	2.0000e-003	0.5497	0.1453	1.8400e-003	0.1471		396.1668	396.1668	6.2700e-003	7.9100e-003	398.6821
<b>Total</b>	<b>0.1233</b>	<b>0.5526</b>	<b>1.2280</b>	<b>5.9200e-003</b>	<b>0.6372</b>	<b>4.6300e-003</b>	<b>0.6418</b>	<b>0.1710</b>	<b>4.3600e-003</b>	<b>0.1754</b>		<b>643.1134</b>	<b>643.1134</b>	<b>0.0237</b>	<b>0.0442</b>	<b>656.8762</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

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

Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.4947	0.2054	2.2300e-003	0.0838	2.6300e-003	0.0864	0.0244	2.5200e-003	0.0269	246.9466	246.9466	0.0174	0.0363	258.1941	
Worker	0.1108	0.0579	1.0226	3.6900e-003	0.5049	2.0000e-003	0.5069	0.1347	1.8400e-003	0.1366	396.1668	396.1668	6.2700e-003	7.9100e-003	398.6821	
<b>Total</b>	<b>0.1233</b>	<b>0.5526</b>	<b>1.2280</b>	<b>5.9200e-003</b>	<b>0.5886</b>	<b>4.6300e-003</b>	<b>0.5933</b>	<b>0.1591</b>	<b>4.3600e-003</b>	<b>0.1634</b>	<b>643.1134</b>	<b>643.1134</b>	<b>0.0237</b>	<b>0.0442</b>	<b>656.8762</b>	

**3.8 Building Construction - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0124	0.4917	0.2052	2.1800e-003	0.0895	2.6200e-003	0.0921	0.0258	2.5100e-003	0.0283		242.2333	242.2333	0.0175	0.0357	253.3110
Worker	0.1053	0.0543	0.9880	3.6100e-003	0.5477	1.8700e-003	0.5496	0.1453	1.7200e-003	0.1470		390.3837	390.3837	5.8300e-003	7.6700e-003	392.8148
<b>Total</b>	<b>0.1177</b>	<b>0.5460</b>	<b>1.1932</b>	<b>5.7900e-003</b>	<b>0.6372</b>	<b>4.4900e-003</b>	<b>0.6417</b>	<b>0.1710</b>	<b>4.2300e-003</b>	<b>0.1752</b>		<b>632.6169</b>	<b>632.6169</b>	<b>0.0233</b>	<b>0.0434</b>	<b>646.1258</b>

Phase 3 Construction - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0124	0.4917	0.2052	2.1800e-003	0.0838	2.6200e-003	0.0864	0.0244	2.5100e-003	0.0269		242.2333	242.2333	0.0175	0.0357	253.3110
Worker	0.1053	0.0543	0.9880	3.6100e-003	0.5049	1.8700e-003	0.5067	0.1347	1.7200e-003	0.1365		390.3837	390.3837	5.8300e-003	7.6700e-003	392.8148
<b>Total</b>	<b>0.1177</b>	<b>0.5460</b>	<b>1.1932</b>	<b>5.7900e-003</b>	<b>0.5886</b>	<b>4.4900e-003</b>	<b>0.5931</b>	<b>0.1591</b>	<b>4.2300e-003</b>	<b>0.1633</b>		<b>632.6169</b>	<b>632.6169</b>	<b>0.0233</b>	<b>0.0434</b>	<b>646.1258</b>

**3.9 Architectural Coating - 2029**

**Unmitigated Construction On-Site**

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	10.7078					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154			281.8319
<b>Total</b>	<b>10.8787</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>			<b>281.8319</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0226	0.0118	0.2087	7.5000e-004	0.1118	4.1000e-004	0.1122	0.0296	3.8000e-004	0.0300		80.8504	80.8504	1.2800e-003	1.6200e-003		81.3637
<b>Total</b>	<b>0.0226</b>	<b>0.0118</b>	<b>0.2087</b>	<b>7.5000e-004</b>	<b>0.1118</b>	<b>4.1000e-004</b>	<b>0.1122</b>	<b>0.0296</b>	<b>3.8000e-004</b>	<b>0.0300</b>		<b>80.8504</b>	<b>80.8504</b>	<b>1.2800e-003</b>	<b>1.6200e-003</b>		<b>81.3637</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	10.7078					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000



Phase 3 Construction - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>10.8787</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0226	0.0118	0.2087	7.5000e-004	0.1030	4.1000e-004	0.1034	0.0275	3.8000e-004	0.0279		80.8504	80.8504	1.2800e-003	1.6200e-003	81.3637
<b>Total</b>	<b>0.0226</b>	<b>0.0118</b>	<b>0.2087</b>	<b>7.5000e-004</b>	<b>0.1030</b>	<b>4.1000e-004</b>	<b>0.1034</b>	<b>0.0275</b>	<b>3.8000e-004</b>	<b>0.0279</b>		<b>80.8504</b>	<b>80.8504</b>	<b>1.2800e-003</b>	<b>1.6200e-003</b>	<b>81.3637</b>

**3.9 Architectural Coating - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.7078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>10.8386</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0215	0.0111	0.2016	7.4000e-004	0.1118	3.8000e-004	0.1122	0.0296	3.5000e-004	0.0300		79.6701	79.6701	1.1900e-003	1.5700e-003	80.1663
<b>Total</b>	<b>0.0215</b>	<b>0.0111</b>	<b>0.2016</b>	<b>7.4000e-004</b>	<b>0.1118</b>	<b>3.8000e-004</b>	<b>0.1122</b>	<b>0.0296</b>	<b>3.5000e-004</b>	<b>0.0300</b>		<b>79.6701</b>	<b>79.6701</b>	<b>1.1900e-003</b>	<b>1.5700e-003</b>	<b>80.1663</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	10.7078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>10.8386</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Phase 3 Construction - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0215	0.0111	0.2016	7.4000e-004	0.1030	3.8000e-004	0.1034	0.0275	3.5000e-004	0.0279		79.6701	79.6701	1.1900e-003	1.5700e-003	80.1663
<b>Total</b>	<b>0.0215</b>	<b>0.0111</b>	<b>0.2016</b>	<b>7.4000e-004</b>	<b>0.1030</b>	<b>3.8000e-004</b>	<b>0.1034</b>	<b>0.0275</b>	<b>3.5000e-004</b>	<b>0.0279</b>		<b>79.6701</b>	<b>79.6701</b>	<b>1.1900e-003</b>	<b>1.5700e-003</b>	<b>80.1663</b>

Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 3 Construction  
Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	135.00	Dwelling Unit	74.50	243,000.00	386
Other Non-Asphalt Surfaces	23.90	Acre	23.90	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2030
<b>Utility Company</b>					
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

- Project Characteristics -
- Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.
- Construction Phase - See assumptions file in the AQ/GHG appendix of the DEIR.
- Off-road Equipment - Assume for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assume for modeling purposes.
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.
- Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Phase 3 Construction - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	110.00	142.00
tblConstructionPhase	NumDays	1,550.00	574.00
tblConstructionPhase	NumDays	155.00	235.00
tblConstructionPhase	NumDays	110.00	141.00
tblConstructionPhase	NumDays	60.00	47.00
tblConstructionPhase	NumDays	155.00	190.00
tblConstructionPhase	PhaseEndDate	7/28/2034	5/31/2030
tblConstructionPhase	PhaseEndDate	9/23/2033	5/31/2030
tblConstructionPhase	PhaseEndDate	10/15/2027	8/31/2027
tblConstructionPhase	PhaseEndDate	2/24/2034	3/18/2028
tblConstructionPhase	PhaseEndDate	3/12/2027	10/6/2026
tblConstructionPhase	PhaseStartDate	2/25/2034	11/15/2029
tblConstructionPhase	PhaseStartDate	10/16/2027	3/21/2028
tblConstructionPhase	PhaseStartDate	3/13/2027	10/7/2026
tblConstructionPhase	PhaseStartDate	9/24/2033	9/3/2027
tblConstructionPhase	PhaseStartDate	12/19/2026	8/1/2026
tblLandUse	LandUseSquareFeet	1,041,084.00	0.00
tblLandUse	LotAcreage	43.83	74.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.1512	1.4855	1.2724	3.0200e-003	1.0382	0.0608	1.0990	0.3847	0.0559	0.4406	0.0000	267.4356	267.4356	0.0810	1.8600e-003	270.0158
2027	0.5549	5.2400	5.6182	0.0125	1.6678	0.2201	1.8879	0.6002	0.2025	0.8027	0.0000	1,106.0478	1,106.0478	0.3367	6.6900e-003	1,116.4608
2028	0.2662	2.4199	3.0437	6.0300e-003	0.5468	0.0998	0.6466	0.1449	0.0930	0.2379	0.0000	532.3833	532.3833	0.1293	5.4000e-003	537.2264
2029	0.3731	1.7188	2.2952	4.3600e-003	0.0835	0.0703	0.1538	0.0224	0.0662	0.0886	0.0000	384.8340	384.8340	0.0742	5.2700e-003	388.2580
2030	0.6690	0.5096	1.0558	2.2100e-003	0.0401	9.4500e-003	0.0496	0.0108	9.4300e-003	0.0202	0.0000	192.6922	192.6922	7.5200e-003	2.2300e-003	193.5437
<b>Maximum</b>	<b>0.6690</b>	<b>5.2400</b>	<b>5.6182</b>	<b>0.0125</b>	<b>1.6678</b>	<b>0.2201</b>	<b>1.8879</b>	<b>0.6002</b>	<b>0.2025</b>	<b>0.8027</b>	<b>0.0000</b>	<b>1,106.0478</b>	<b>1,106.0478</b>	<b>0.3367</b>	<b>6.6900e-003</b>	<b>1,116.4608</b>

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.1512	1.4855	1.2724	3.0200e-003	0.4517	0.0608	0.5125	0.1666	0.0559	0.2225	0.0000	267.4353	267.4353	0.0810	1.8600e-003	270.0155
2027	0.5549	5.2400	5.6182	0.0125	0.7450	0.2201	0.9651	0.2654	0.2025	0.4679	0.0000	1,106.0465	1,106.0465	0.3367	6.6900e-003	1,116.4596
2028	0.2662	2.4199	3.0437	6.0300e-003	0.2729	0.0998	0.3728	0.0726	0.0930	0.1656	0.0000	532.3828	532.3828	0.1293	5.4000e-003	537.2259
2029	0.3731	1.7188	2.2952	4.3600e-003	0.0772	0.0703	0.1475	0.0209	0.0662	0.0871	0.0000	384.8336	384.8336	0.0742	5.2700e-003	388.2577
2030	0.6690	0.5096	1.0558	2.2100e-003	0.0371	9.4500e-003	0.0465	0.0100	9.4300e-003	0.0194	0.0000	192.6920	192.6920	7.5200e-003	2.2300e-003	193.5435
<b>Maximum</b>	<b>0.6690</b>	<b>5.2400</b>	<b>5.6182</b>	<b>0.0125</b>	<b>0.7450</b>	<b>0.2201</b>	<b>0.9651</b>	<b>0.2654</b>	<b>0.2025</b>	<b>0.4679</b>	<b>0.0000</b>	<b>1,106.0465</b>	<b>1,106.0465</b>	<b>0.3367</b>	<b>6.6900e-003</b>	<b>1,116.4596</b>

Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.09	0.00	46.72	53.95	0.00	39.46	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2026	10-31-2026	0.9528	0.9528
2	11-1-2026	1-31-2027	1.0355	1.0355
3	2-1-2027	4-30-2027	1.0926	1.0926
4	5-1-2027	7-31-2027	1.6279	1.6279
5	8-1-2027	10-31-2027	1.7846	1.7846
6	11-1-2027	1-31-2028	1.4047	1.4047
7	2-1-2028	4-30-2028	0.9487	0.9487
8	5-1-2028	7-31-2028	0.4892	0.4892
9	8-1-2028	10-31-2028	0.4765	0.4765
10	11-1-2028	1-31-2029	0.4771	0.4771
11	2-1-2029	4-30-2029	0.4609	0.4609
12	5-1-2029	7-31-2029	0.4756	0.4756
13	8-1-2029	10-31-2029	0.4760	0.4760
14	11-1-2029	1-31-2030	0.7581	0.7581
15	2-1-2030	4-30-2030	0.6873	0.6873
16	5-1-2030	7-31-2030	0.2391	0.2391
		Highest	1.7846	1.7846

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2026	10/6/2026	5	47	
2	Rough Grading	Grading	10/7/2026	8/31/2027	5	235	
3	Utility Trenching	Trenching	3/20/2027	11/5/2027	5	165	
4	Fine Grading	Grading	6/27/2027	3/18/2028	5	190	
5	Paving	Paving	9/3/2027	3/18/2028	5	141	
6	Finishing/Landscaping	Trenching	11/8/2027	5/25/2028	5	144	

Phase 3 Construction - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

7	Building Construction	Building Construction	3/21/2028	5/31/2030	5	574
8	Architectural Coating	Architectural Coating	11/15/2029	5/31/2030	5	142

**Acres of Grading (Site Preparation Phase): 70.5**

**Acres of Grading (Grading Phase): 705**

**Acres of Paving: 23.9**

**Residential Indoor: 492,075; Residential Outdoor: 164,025; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fine Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Fine Grading	Graders	1	8.00	187	0.41
Rough Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Rough Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50



Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	49.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4619	0.0000	0.4619	0.2374	0.0000	0.2374	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0581	0.5930	0.4209	9.0000e-004		0.0255	0.0255		0.0235	0.0235	0.0000	78.6474	78.6474	0.0254	0.0000	79.2833
<b>Total</b>	<b>0.0581</b>	<b>0.5930</b>	<b>0.4209</b>	<b>9.0000e-004</b>	<b>0.4619</b>	<b>0.0255</b>	<b>0.4875</b>	<b>0.2374</b>	<b>0.0235</b>	<b>0.2609</b>	<b>0.0000</b>	<b>78.6474</b>	<b>78.6474</b>	<b>0.0254</b>	<b>0.0000</b>	<b>79.2833</b>

Phase 3 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	6.8000e-003	2.7300e-003	3.0000e-005	1.1800e-003	4.0000e-005	1.2200e-003	3.4000e-004	3.0000e-005	3.8000e-004	0.0000	3.1930	3.1930	2.1000e-004	4.6000e-004	3.3365
Worker	1.0100e-003	6.4000e-004	0.0103	3.0000e-005	4.6400e-003	2.0000e-005	4.6600e-003	1.2300e-003	2.0000e-005	1.2500e-003	0.0000	3.3264	3.3264	6.0000e-005	7.0000e-005	3.3491
<b>Total</b>	<b>1.1900e-003</b>	<b>7.4400e-003</b>	<b>0.0130</b>	<b>6.0000e-005</b>	<b>5.8200e-003</b>	<b>6.0000e-005</b>	<b>5.8800e-003</b>	<b>1.5700e-003</b>	<b>5.0000e-005</b>	<b>1.6300e-003</b>	<b>0.0000</b>	<b>6.5193</b>	<b>6.5193</b>	<b>2.7000e-004</b>	<b>5.3000e-004</b>	<b>6.6856</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1975	0.0000	0.1975	0.1015	0.0000	0.1015	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0581	0.5930	0.4209	9.0000e-004		0.0255	0.0255		0.0235	0.0235	0.0000	78.6473	78.6473	0.0254	0.0000	79.2832
<b>Total</b>	<b>0.0581</b>	<b>0.5930</b>	<b>0.4209</b>	<b>9.0000e-004</b>	<b>0.1975</b>	<b>0.0255</b>	<b>0.2230</b>	<b>0.1015</b>	<b>0.0235</b>	<b>0.1250</b>	<b>0.0000</b>	<b>78.6473</b>	<b>78.6473</b>	<b>0.0254</b>	<b>0.0000</b>	<b>79.2832</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	6.8000e-003	2.7300e-003	3.0000e-005	1.1100e-003	4.0000e-005	1.1400e-003	3.2000e-004	3.0000e-005	3.6000e-004	0.0000	3.1930	3.1930	2.1000e-004	4.6000e-004	3.3365
Worker	1.0100e-003	6.4000e-004	0.0103	3.0000e-005	4.2800e-003	2.0000e-005	4.3000e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3264	3.3264	6.0000e-005	7.0000e-005	3.3491
<b>Total</b>	<b>1.1900e-003</b>	<b>7.4400e-003</b>	<b>0.0130</b>	<b>6.0000e-005</b>	<b>5.3900e-003</b>	<b>6.0000e-005</b>	<b>5.4400e-003</b>	<b>1.4600e-003</b>	<b>5.0000e-005</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>6.5193</b>	<b>6.5193</b>	<b>2.7000e-004</b>	<b>5.3000e-004</b>	<b>6.6856</b>

3.3 Rough Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5605	0.0000	0.5605	0.1430	0.0000	0.1430	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0899	0.8662	0.8163	1.9200e-003		0.0351	0.0351		0.0323	0.0323	0.0000	168.9693	168.9693	0.0547	0.0000	170.3355
<b>Total</b>	<b>0.0899</b>	<b>0.8662</b>	<b>0.8163</b>	<b>1.9200e-003</b>	<b>0.5605</b>	<b>0.0351</b>	<b>0.5956</b>	<b>0.1430</b>	<b>0.0323</b>	<b>0.1752</b>	<b>0.0000</b>	<b>168.9693</b>	<b>168.9693</b>	<b>0.0547</b>	<b>0.0000</b>	<b>170.3355</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7000e-004	0.0179	7.2000e-003	8.0000e-005	3.1200e-003	9.0000e-005	3.2200e-003	9.0000e-004	9.0000e-005	9.9000e-004	0.0000	8.4240	8.4240	5.5000e-004	1.2200e-003	8.8026

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	1.4800e-003	9.3000e-004	0.0150	5.0000e-005	6.8100e-003	3.0000e-005	6.8400e-003	1.8100e-003	3.0000e-005	1.8400e-003	0.0000	4.8755	4.8755	9.0000e-005	1.0000e-004	4.9088
<b>Total</b>	<b>1.9500e-003</b>	<b>0.0189</b>	<b>0.0222</b>	<b>1.3000e-004</b>	<b>9.9300e-003</b>	<b>1.2000e-004</b>	<b>0.0101</b>	<b>2.7100e-003</b>	<b>1.2000e-004</b>	<b>2.8300e-003</b>	<b>0.0000</b>	<b>13.2996</b>	<b>13.2996</b>	<b>6.4000e-004</b>	<b>1.3200e-003</b>	<b>13.7114</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2396	0.0000	0.2396	0.0611	0.0000	0.0611	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0899	0.8662	0.8163	1.9200e-003		0.0351	0.0351		0.0323	0.0323	0.0000	168.9691	168.9691	0.0547	0.0000	170.3353
<b>Total</b>	<b>0.0899</b>	<b>0.8662</b>	<b>0.8163</b>	<b>1.9200e-003</b>	<b>0.2396</b>	<b>0.0351</b>	<b>0.2747</b>	<b>0.0611</b>	<b>0.0323</b>	<b>0.0934</b>	<b>0.0000</b>	<b>168.9691</b>	<b>168.9691</b>	<b>0.0547</b>	<b>0.0000</b>	<b>170.3353</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7000e-004	0.0179	7.2000e-003	8.0000e-005	2.9300e-003	9.0000e-005	3.0200e-003	8.5000e-004	9.0000e-005	9.4000e-004	0.0000	8.4240	8.4240	5.5000e-004	1.2200e-003	8.8026
Worker	1.4800e-003	9.3000e-004	0.0150	5.0000e-005	6.2800e-003	3.0000e-005	6.3100e-003	1.6800e-003	3.0000e-005	1.7100e-003	0.0000	4.8755	4.8755	9.0000e-005	1.0000e-004	4.9088
<b>Total</b>	<b>1.9500e-003</b>	<b>0.0189</b>	<b>0.0222</b>	<b>1.3000e-004</b>	<b>9.2100e-003</b>	<b>1.2000e-004</b>	<b>9.3300e-003</b>	<b>2.5300e-003</b>	<b>1.2000e-004</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>13.2996</b>	<b>13.2996</b>	<b>6.4000e-004</b>	<b>1.3200e-003</b>	<b>13.7114</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Rough Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8947	0.0000	0.8947	0.3267	0.0000	0.3267	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2510	2.4171	2.2776	5.3700e-003		0.0978	0.0978		0.0900	0.0900	0.0000	471.4787	471.4787	0.1525	0.0000	475.2909
<b>Total</b>	<b>0.2510</b>	<b>2.4171</b>	<b>2.2776</b>	<b>5.3700e-003</b>	<b>0.8947</b>	<b>0.0978</b>	<b>0.9926</b>	<b>0.3267</b>	<b>0.0900</b>	<b>0.4167</b>	<b>0.0000</b>	<b>471.4787</b>	<b>471.4787</b>	<b>0.1525</b>	<b>0.0000</b>	<b>475.2909</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2900e-003	0.0497	0.0200	2.3000e-004	8.7200e-003	2.6000e-004	8.9800e-003	2.5100e-003	2.5000e-004	2.7700e-003	0.0000	23.0250	23.0250	1.5300e-003	3.3600e-003	24.0646
Worker	3.9300e-003	2.4000e-003	0.0400	1.4000e-004	0.0190	8.0000e-005	0.0191	5.0400e-003	7.0000e-005	5.1200e-003	0.0000	13.3219	13.3219	2.3000e-004	2.8000e-004	13.4105
<b>Total</b>	<b>5.2200e-003</b>	<b>0.0521</b>	<b>0.0600</b>	<b>3.7000e-004</b>	<b>0.0277</b>	<b>3.4000e-004</b>	<b>0.0281</b>	<b>7.5500e-003</b>	<b>3.2000e-004</b>	<b>7.8900e-003</b>	<b>0.0000</b>	<b>36.3470</b>	<b>36.3470</b>	<b>1.7600e-003</b>	<b>3.6400e-003</b>	<b>37.4751</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.3825	0.0000	0.3825	0.1397	0.0000	0.1397	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2510	2.4171	2.2776	5.3700e-003		0.0978	0.0978		0.0900	0.0900	0.0000	471.4782	471.4782	0.1525	0.0000	475.2903
<b>Total</b>	<b>0.2510</b>	<b>2.4171</b>	<b>2.2776</b>	<b>5.3700e-003</b>	<b>0.3825</b>	<b>0.0978</b>	<b>0.4803</b>	<b>0.1397</b>	<b>0.0900</b>	<b>0.2297</b>	<b>0.0000</b>	<b>471.4782</b>	<b>471.4782</b>	<b>0.1525</b>	<b>0.0000</b>	<b>475.2903</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2900e-003	0.0497	0.0200	2.3000e-004	8.1600e-003	2.6000e-004	8.4200e-003	2.3800e-003	2.5000e-004	2.6300e-003	0.0000	23.0250	23.0250	1.5300e-003	3.3600e-003	24.0646
Worker	3.9300e-003	2.4000e-003	0.0400	1.4000e-004	0.0175	8.0000e-005	0.0176	4.6800e-003	7.0000e-005	4.7500e-003	0.0000	13.3219	13.3219	2.3000e-004	2.8000e-004	13.4105
<b>Total</b>	<b>5.2200e-003</b>	<b>0.0521</b>	<b>0.0600</b>	<b>3.7000e-004</b>	<b>0.0257</b>	<b>3.4000e-004</b>	<b>0.0260</b>	<b>7.0600e-003</b>	<b>3.2000e-004</b>	<b>7.3800e-003</b>	<b>0.0000</b>	<b>36.3470</b>	<b>36.3470</b>	<b>1.7600e-003</b>	<b>3.6400e-003</b>	<b>37.4751</b>

**3.4 Utility Trenching - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0538	0.4466	0.7535	1.1400e-003		0.0262	0.0262		0.0241	0.0241	0.0000	99.8897	99.8897	0.0323	0.0000	100.6974
<b>Total</b>	<b>0.0538</b>	<b>0.4466</b>	<b>0.7535</b>	<b>1.1400e-003</b>		<b>0.0262</b>	<b>0.0262</b>		<b>0.0241</b>	<b>0.0241</b>	<b>0.0000</b>	<b>99.8897</b>	<b>99.8897</b>	<b>0.0323</b>	<b>0.0000</b>	<b>100.6974</b>

Phase 3 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-003	9.1000e-004	0.0153	5.0000e-005	7.2500e-003	3.0000e-005	7.2800e-003	1.9200e-003	3.0000e-005	1.9500e-003	0.0000	5.0824	5.0824	9.0000e-005	1.1000e-004	5.1161
<b>Total</b>	<b>1.5000e-003</b>	<b>9.1000e-004</b>	<b>0.0153</b>	<b>5.0000e-005</b>	<b>7.2500e-003</b>	<b>3.0000e-005</b>	<b>7.2800e-003</b>	<b>1.9200e-003</b>	<b>3.0000e-005</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>5.0824</b>	<b>5.0824</b>	<b>9.0000e-005</b>	<b>1.1000e-004</b>	<b>5.1161</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0538	0.4466	0.7535	1.1400e-003		0.0262	0.0262		0.0241	0.0241	0.0000	99.8896	99.8896	0.0323	0.0000	100.6972
<b>Total</b>	<b>0.0538</b>	<b>0.4466</b>	<b>0.7535</b>	<b>1.1400e-003</b>		<b>0.0262</b>	<b>0.0262</b>		<b>0.0241</b>	<b>0.0241</b>	<b>0.0000</b>	<b>99.8896</b>	<b>99.8896</b>	<b>0.0323</b>	<b>0.0000</b>	<b>100.6972</b>

**Mitigated Construction Off-Site**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-003	9.1000e-004	0.0153	5.0000e-005	6.6800e-003	3.0000e-005	6.7100e-003	1.7900e-003	3.0000e-005	1.8100e-003	0.0000	5.0824	5.0824	9.0000e-005	1.1000e-004	5.1161
<b>Total</b>	<b>1.5000e-003</b>	<b>9.1000e-004</b>	<b>0.0153</b>	<b>5.0000e-005</b>	<b>6.6800e-003</b>	<b>3.0000e-005</b>	<b>6.7100e-003</b>	<b>1.7900e-003</b>	<b>3.0000e-005</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>5.0824</b>	<b>5.0824</b>	<b>9.0000e-005</b>	<b>1.1000e-004</b>	<b>5.1161</b>

3.5 Fine Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7087	0.0000	0.7087	0.2561	0.0000	0.2561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1958	1.8862	1.7774	4.1900e-003		0.0763	0.0763		0.0702	0.0702	0.0000	367.9169	367.9169	0.1190	0.0000	370.8917
<b>Total</b>	<b>0.1958</b>	<b>1.8862</b>	<b>1.7774</b>	<b>4.1900e-003</b>	<b>0.7087</b>	<b>0.0763</b>	<b>0.7851</b>	<b>0.2561</b>	<b>0.0702</b>	<b>0.3263</b>	<b>0.0000</b>	<b>367.9169</b>	<b>367.9169</b>	<b>0.1190</b>	<b>0.0000</b>	<b>370.8917</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



Phase 3 Construction - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	1.0100e-003	0.0388	0.0156	1.8000e-004	6.8000e-003	2.0000e-004	7.0100e-003	1.9600e-003	2.0000e-004	2.1600e-003	0.0000	17.9675	17.9675	1.2000e-003	2.6200e-003	18.7788
Worker	3.0600e-003	1.8700e-003	0.0312	1.1000e-004	0.0148	6.0000e-005	0.0149	3.9400e-003	6.0000e-005	3.9900e-003	0.0000	10.3957	10.3957	1.8000e-004	2.2000e-004	10.4648
<b>Total</b>	<b>4.0700e-003</b>	<b>0.0406</b>	<b>0.0469</b>	<b>2.9000e-004</b>	<b>0.0216</b>	<b>2.6000e-004</b>	<b>0.0219</b>	<b>5.9000e-003</b>	<b>2.6000e-004</b>	<b>6.1500e-003</b>	<b>0.0000</b>	<b>28.3632</b>	<b>28.3632</b>	<b>1.3800e-003</b>	<b>2.8400e-003</b>	<b>29.2436</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3030	0.0000	0.3030	0.1095	0.0000	0.1095	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1958	1.8861	1.7774	4.1900e-003		0.0763	0.0763		0.0702	0.0702	0.0000	367.9165	367.9165	0.1190	0.0000	370.8913
<b>Total</b>	<b>0.1958</b>	<b>1.8861</b>	<b>1.7774</b>	<b>4.1900e-003</b>	<b>0.3030</b>	<b>0.0763</b>	<b>0.3793</b>	<b>0.1095</b>	<b>0.0702</b>	<b>0.1797</b>	<b>0.0000</b>	<b>367.9165</b>	<b>367.9165</b>	<b>0.1190</b>	<b>0.0000</b>	<b>370.8913</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0100e-003	0.0388	0.0156	1.8000e-004	6.8700e-003	2.0000e-004	6.5700e-003	1.8600e-003	2.0000e-004	2.0500e-003	0.0000	17.9675	17.9675	1.2000e-003	2.6200e-003	18.7788
Worker	3.0600e-003	1.8700e-003	0.0312	1.1000e-004	0.0137	6.0000e-005	0.0137	3.6500e-003	6.0000e-005	3.7100e-003	0.0000	10.3957	10.3957	1.8000e-004	2.2000e-004	10.4648
<b>Total</b>	<b>4.0700e-003</b>	<b>0.0406</b>	<b>0.0469</b>	<b>2.9000e-004</b>	<b>0.0200</b>	<b>2.6000e-004</b>	<b>0.0203</b>	<b>5.5100e-003</b>	<b>2.6000e-004</b>	<b>5.7600e-003</b>	<b>0.0000</b>	<b>28.3632</b>	<b>28.3632</b>	<b>1.3800e-003</b>	<b>2.8400e-003</b>	<b>29.2436</b>

Phase 3 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Fine Grading - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4679	0.0000	0.4679	0.1237	0.0000	0.1237	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0798	0.7684	0.7241	1.7100e-003		0.0311	0.0311		0.0286	0.0286	0.0000	149.8921	149.8921	0.0485	0.0000	151.1040
<b>Total</b>	<b>0.0798</b>	<b>0.7684</b>	<b>0.7241</b>	<b>1.7100e-003</b>	<b>0.4679</b>	<b>0.0311</b>	<b>0.4990</b>	<b>0.1237</b>	<b>0.0286</b>	<b>0.1523</b>	<b>0.0000</b>	<b>149.8921</b>	<b>149.8921</b>	<b>0.0485</b>	<b>0.0000</b>	<b>151.1040</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	0.0157	6.3600e-003	7.0000e-005	2.7700e-003	8.0000e-005	2.8500e-003	8.0000e-004	8.0000e-005	8.8000e-004	0.0000	7.1741	7.1741	4.9000e-004	1.0500e-003	7.4995
Worker	1.1900e-003	7.1000e-004	0.0122	4.0000e-005	6.0400e-003	2.0000e-005	6.0600e-003	1.6000e-003	2.0000e-005	1.6300e-003	0.0000	4.1572	4.1572	7.0000e-005	8.0000e-005	4.1841
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0164</b>	<b>0.0186</b>	<b>1.1000e-004</b>	<b>8.8100e-003</b>	<b>1.0000e-004</b>	<b>8.9100e-003</b>	<b>2.4000e-003</b>	<b>1.0000e-004</b>	<b>2.5100e-003</b>	<b>0.0000</b>	<b>11.3313</b>	<b>11.3313</b>	<b>5.6000e-004</b>	<b>1.1300e-003</b>	<b>11.6837</b>

**Mitigated Construction On-Site**

Phase 3 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2000	0.0000	0.2000	0.0529	0.0000	0.0529	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0798	0.7684	0.7241	1.7100e-003		0.0311	0.0311		0.0286	0.0286	0.0000	149.8919	149.8919	0.0485	0.0000	151.1039
<b>Total</b>	<b>0.0798</b>	<b>0.7684</b>	<b>0.7241</b>	<b>1.7100e-003</b>	<b>0.2000</b>	<b>0.0311</b>	<b>0.2311</b>	<b>0.0529</b>	<b>0.0286</b>	<b>0.0815</b>	<b>0.0000</b>	<b>149.8919</b>	<b>149.8919</b>	<b>0.0485</b>	<b>0.0000</b>	<b>151.1039</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	0.0157	6.3600e-003	7.0000e-006	2.6000e-003	8.0000e-005	2.6800e-003	7.6000e-004	8.0000e-005	8.4000e-004	0.0000	7.1741	7.1741	4.9000e-004	1.0500e-003	7.4995
Worker	1.1900e-003	7.1000e-004	0.0122	4.0000e-006	5.5700e-003	2.0000e-005	5.5900e-003	1.4900e-003	2.0000e-005	1.5100e-003	0.0000	4.1572	4.1572	7.0000e-005	8.0000e-005	4.1841
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0164</b>	<b>0.0186</b>	<b>1.1000e-004</b>	<b>8.1700e-003</b>	<b>1.0000e-004</b>	<b>8.2700e-003</b>	<b>2.2500e-003</b>	<b>1.0000e-004</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>11.3313</b>	<b>11.3313</b>	<b>5.6000e-004</b>	<b>1.1300e-003</b>	<b>11.6837</b>

**3.6 Paving - 2027**

**Unmitigated Construction On-Site**

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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	0.0394	0.3690	0.6269	9.8000e-004		0.0180	0.0180		0.0166	0.0166	0.0000	86.0828	86.0828	0.0278	0.0000	86.7788
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0394</b>	<b>0.3690</b>	<b>0.6269</b>	<b>9.8000e-004</b>		<b>0.0180</b>	<b>0.0180</b>		<b>0.0166</b>	<b>0.0166</b>	<b>0.0000</b>	<b>86.0828</b>	<b>86.0828</b>	<b>0.0278</b>	<b>0.0000</b>	<b>86.7788</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4600e-003	8.9000e-004	0.0149	5.0000e-005	7.0800e-003	3.0000e-005	7.1100e-003	1.8800e-003	3.0000e-005	1.9100e-003	0.0000	4.9669	4.9669	9.0000e-005	1.0000e-004	4.9999
<b>Total</b>	<b>1.4600e-003</b>	<b>8.9000e-004</b>	<b>0.0149</b>	<b>5.0000e-005</b>	<b>7.0800e-003</b>	<b>3.0000e-005</b>	<b>7.1100e-003</b>	<b>1.8800e-003</b>	<b>3.0000e-005</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>4.9669</b>	<b>4.9669</b>	<b>9.0000e-005</b>	<b>1.0000e-004</b>	<b>4.9999</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0394	0.3690	0.6269	9.8000e-004		0.0180	0.0180		0.0166	0.0166	0.0000	86.0827	86.0827	0.0278	0.0000	86.7787
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0394</b>	<b>0.3690</b>	<b>0.6269</b>	<b>9.8000e-004</b>		<b>0.0180</b>	<b>0.0180</b>		<b>0.0166</b>	<b>0.0166</b>	<b>0.0000</b>	<b>86.0827</b>	<b>86.0827</b>	<b>0.0278</b>	<b>0.0000</b>	<b>86.7787</b>

Phase 3 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4600e-003	8.9000e-004	0.0149	5.0000e-005	6.5300e-003	3.0000e-005	6.5600e-003	1.7400e-003	3.0000e-005	1.7700e-003	0.0000	4.9669	4.9669	9.0000e-005	1.0000e-004	4.9999
<b>Total</b>	<b>1.4600e-003</b>	<b>8.9000e-004</b>	<b>0.0149</b>	<b>5.0000e-005</b>	<b>6.5300e-003</b>	<b>3.0000e-005</b>	<b>6.5600e-003</b>	<b>1.7400e-003</b>	<b>3.0000e-005</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>4.9669</b>	<b>4.9669</b>	<b>9.0000e-005</b>	<b>1.0000e-004</b>	<b>4.9999</b>

**3.6 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0252	0.2360	0.4009	6.3000e-004		0.0115	0.0115		0.0106	0.0106	0.0000	55.0530	55.0530	0.0178	0.0000	55.4981
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0252</b>	<b>0.2360</b>	<b>0.4009</b>	<b>6.3000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0106</b>	<b>0.0106</b>	<b>0.0000</b>	<b>55.0530</b>	<b>55.0530</b>	<b>0.0178</b>	<b>0.0000</b>	<b>55.4981</b>

**Unmitigated Construction Off-Site**

Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.9000e-004	5.3000e-004	9.1400e-003	3.0000e-005	4.5300e-003	2.0000e-005	4.5500e-003	1.2000e-003	2.0000e-005	1.2200e-003	0.0000	3.1179	3.1179	5.0000e-005	6.0000e-005	3.1381
<b>Total</b>	<b>8.9000e-004</b>	<b>5.3000e-004</b>	<b>9.1400e-003</b>	<b>3.0000e-005</b>	<b>4.5300e-003</b>	<b>2.0000e-005</b>	<b>4.5500e-003</b>	<b>1.2000e-003</b>	<b>2.0000e-005</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.1179</b>	<b>3.1179</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>3.1381</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0252	0.2360	0.4009	6.3000e-004		0.0115	0.0115		0.0106	0.0106	0.0000	55.0529	55.0529	0.0178	0.0000	55.4980
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0252</b>	<b>0.2360</b>	<b>0.4009</b>	<b>6.3000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0106</b>	<b>0.0106</b>	<b>0.0000</b>	<b>55.0529</b>	<b>55.0529</b>	<b>0.0178</b>	<b>0.0000</b>	<b>55.4980</b>

Mitigated Construction Off-Site

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

Phase 3 Construction - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.9000e-004	5.3000e-004	9.1400e-003	3.0000e-005	4.1800e-003	2.0000e-005	4.1900e-003	1.1200e-003	2.0000e-005	1.1300e-003	0.0000	3.1179	3.1179	5.0000e-005	6.0000e-005	3.1381
<b>Total</b>	<b>8.9000e-004</b>	<b>5.3000e-004</b>	<b>9.1400e-003</b>	<b>3.0000e-005</b>	<b>4.1800e-003</b>	<b>2.0000e-005</b>	<b>4.1900e-003</b>	<b>1.1200e-003</b>	<b>2.0000e-005</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>3.1179</b>	<b>3.1179</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>3.1381</b>

**3.7 Finishing/Landscaping - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6300e-003	0.0266	0.0444	6.0000e-005		1.0800e-003	1.0800e-003		9.9000e-004	9.9000e-004	0.0000	5.4582	5.4582	1.7700e-003	0.0000	5.5023
<b>Total</b>	<b>2.6300e-003</b>	<b>0.0266</b>	<b>0.0444</b>	<b>6.0000e-005</b>		<b>1.0800e-003</b>	<b>1.0800e-003</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>5.4582</b>	<b>5.4582</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>5.5023</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	8.0000e-005	1.3900e-003	0.0000	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4620	0.4620	1.0000e-005	1.0000e-005	0.4651
<b>Total</b>	<b>1.4000e-004</b>	<b>8.0000e-005</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.4620</b>	<b>0.4620</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4651</b>

Phase 3 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6300e-003	0.0266	0.0444	6.0000e-005		1.0800e-003	1.0800e-003		9.9000e-004	9.9000e-004	0.0000	5.4582	5.4582	1.7700e-003	0.0000	5.5023
<b>Total</b>	<b>2.6300e-003</b>	<b>0.0266</b>	<b>0.0444</b>	<b>6.0000e-005</b>		<b>1.0800e-003</b>	<b>1.0800e-003</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>5.4582</b>	<b>5.4582</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>5.5023</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	8.0000e-005	1.3900e-003	0.0000	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4620	0.4620	1.0000e-005	1.0000e-005	0.4651
<b>Total</b>	<b>1.4000e-004</b>	<b>8.0000e-005</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.4620</b>	<b>0.4620</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4651</b>

**3.7 Finishing/Landscaping - 2028**

**Unmitigated Construction On-Site**



Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8400e-003	0.0691	0.1155	1.6000e-004		2.8000e-003	2.8000e-003		2.5800e-003	2.5800e-003	0.0000	14.1913	14.1913	4.5900e-003	0.0000	14.3060
<b>Total</b>	<b>6.8400e-003</b>	<b>0.0691</b>	<b>0.1155</b>	<b>1.6000e-004</b>		<b>2.8000e-003</b>	<b>2.8000e-003</b>		<b>2.5800e-003</b>	<b>2.5800e-003</b>	<b>0.0000</b>	<b>14.1913</b>	<b>14.1913</b>	<b>4.5900e-003</b>	<b>0.0000</b>	<b>14.3060</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.0000e-004	3.4600e-003	1.0000e-005	1.7100e-003	1.0000e-005	1.7200e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.1791	1.1791	2.0000e-005	2.0000e-005	1.1868
<b>Total</b>	<b>3.4000e-004</b>	<b>2.0000e-004</b>	<b>3.4600e-003</b>	<b>1.0000e-005</b>	<b>1.7100e-003</b>	<b>1.0000e-005</b>	<b>1.7200e-003</b>	<b>4.5000e-004</b>	<b>1.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.1791</b>	<b>1.1791</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.1868</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8400e-003	0.0691	0.1155	1.6000e-004		2.8000e-003	2.8000e-003		2.5800e-003	2.5800e-003	0.0000	14.1913	14.1913	4.5900e-003	0.0000	14.3060
<b>Total</b>	<b>6.8400e-003</b>	<b>0.0691</b>	<b>0.1155</b>	<b>1.6000e-004</b>		<b>2.8000e-003</b>	<b>2.8000e-003</b>		<b>2.5800e-003</b>	<b>2.5800e-003</b>	<b>0.0000</b>	<b>14.1913</b>	<b>14.1913</b>	<b>4.5900e-003</b>	<b>0.0000</b>	<b>14.3060</b>

Phase 3 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.0000e-004	3.4600e-003	1.0000e-005	1.5800e-003	1.0000e-005	1.5900e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.1791	1.1791	2.0000e-005	2.0000e-005	1.1868
<b>Total</b>	<b>3.4000e-004</b>	<b>2.0000e-004</b>	<b>3.4600e-003</b>	<b>1.0000e-005</b>	<b>1.5800e-003</b>	<b>1.0000e-005</b>	<b>1.5900e-003</b>	<b>4.2000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.1791</b>	<b>1.1791</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.1868</b>

**3.8 Building Construction - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1395	1.2719	1.6406	2.7500e-003		0.0538	0.0538		0.0506	0.0506	0.0000	236.5578	236.5578	0.0556	0.0000	237.9480
<b>Total</b>	<b>0.1395</b>	<b>1.2719</b>	<b>1.6406</b>	<b>2.7500e-003</b>		<b>0.0538</b>	<b>0.0538</b>		<b>0.0506</b>	<b>0.0506</b>	<b>0.0000</b>	<b>236.5578</b>	<b>236.5578</b>	<b>0.0556</b>	<b>0.0000</b>	<b>237.9480</b>

**Unmitigated Construction Off-Site**

Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3200e-003	0.0509	0.0207	2.3000e-004	9.0000e-003	2.7000e-004	9.2700e-003	2.5900e-003	2.6000e-004	2.8500e-003	0.0000	23.2834	23.2834	1.6000e-003	3.4100e-003	24.3393
Worker	0.0108	6.4400e-003	0.1108	3.9000e-004	0.0549	2.2000e-004	0.0551	0.0146	2.0000e-004	0.0148	0.0000	37.7775	37.7775	6.2000e-004	7.7000e-004	38.0224
<b>Total</b>	<b>0.0121</b>	<b>0.0573</b>	<b>0.1314</b>	<b>6.2000e-004</b>	<b>0.0639</b>	<b>4.9000e-004</b>	<b>0.0644</b>	<b>0.0172</b>	<b>4.6000e-004</b>	<b>0.0176</b>	<b>0.0000</b>	<b>61.0608</b>	<b>61.0608</b>	<b>2.2200e-003</b>	<b>4.1800e-003</b>	<b>62.3617</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1395	1.2719	1.6406	2.7500e-003		0.0538	0.0538		0.0506	0.0506	0.0000	236.5576	236.5576	0.0556	0.0000	237.9478
<b>Total</b>	<b>0.1395</b>	<b>1.2719</b>	<b>1.6406</b>	<b>2.7500e-003</b>		<b>0.0538</b>	<b>0.0538</b>		<b>0.0506</b>	<b>0.0506</b>	<b>0.0000</b>	<b>236.5576</b>	<b>236.5576</b>	<b>0.0556</b>	<b>0.0000</b>	<b>237.9478</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3200e-003	0.0509	0.0207	2.3000e-004	8.4200e-003	2.7000e-004	8.6900e-003	2.4500e-003	2.6000e-004	2.7100e-003	0.0000	23.2834	23.2834	1.6000e-003	3.4100e-003	24.3393

Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0108	6.4400e-003	0.1108	3.9000e-004	0.0506	2.2000e-004	0.0508	0.0135	2.0000e-004	0.0137	0.0000	37.7775	37.7775	6.2000e-004	7.7000e-004	38.0224
<b>Total</b>	<b>0.0121</b>	<b>0.0573</b>	<b>0.1314</b>	<b>6.2000e-004</b>	<b>0.0590</b>	<b>4.9000e-004</b>	<b>0.0595</b>	<b>0.0160</b>	<b>4.6000e-004</b>	<b>0.0164</b>	<b>0.0000</b>	<b>61.0608</b>	<b>61.0608</b>	<b>2.2200e-003</b>	<b>4.1800e-003</b>	<b>62.3617</b>

3.8 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6700e-003	0.0647	0.0264	2.9000e-004	0.0115	3.4000e-004	0.0119	3.3200e-003	3.3000e-004	3.6500e-003	0.0000	29.2076	29.2076	2.0600e-003	4.2900e-003	30.5380
Worker	0.0131	7.6900e-003	0.1364	4.9000e-004	0.0702	2.6000e-004	0.0705	0.0186	2.4000e-004	0.0189	0.0000	47.5321	47.5321	7.4000e-004	9.5000e-004	47.8336
<b>Total</b>	<b>0.0148</b>	<b>0.0724</b>	<b>0.1628</b>	<b>7.8000e-004</b>	<b>0.0817</b>	<b>6.0000e-004</b>	<b>0.0823</b>	<b>0.0220</b>	<b>5.7000e-004</b>	<b>0.0225</b>	<b>0.0000</b>	<b>76.7397</b>	<b>76.7397</b>	<b>2.8000e-003</b>	<b>5.2400e-003</b>	<b>78.3716</b>

Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6700e-003	0.0647	0.0264	2.9000e-004	0.0108	3.4000e-004	0.0111	3.1400e-003	3.3000e-004	3.4700e-003	0.0000	29.2076	29.2076	2.0600e-003	4.2900e-003	30.5380
Worker	0.0131	7.6900e-003	0.1364	4.9000e-004	0.0647	2.6000e-004	0.0650	0.0173	2.4000e-004	0.0175	0.0000	47.5321	47.5321	7.4000e-004	9.5000e-004	47.8336
<b>Total</b>	<b>0.0148</b>	<b>0.0724</b>	<b>0.1628</b>	<b>7.8000e-004</b>	<b>0.0755</b>	<b>6.0000e-004</b>	<b>0.0761</b>	<b>0.0204</b>	<b>5.7000e-004</b>	<b>0.0210</b>	<b>0.0000</b>	<b>76.7397</b>	<b>76.7397</b>	<b>2.8000e-003</b>	<b>5.2400e-003</b>	<b>78.3716</b>

**3.8 Building Construction - 2030**

**Unmitigated Construction On-Site**

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

Phase 3 Construction - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	0.0714	0.4324	0.8806	1.6900e-003		8.0700e-003	8.0700e-003		8.0700e-003	8.0700e-003	0.0000	143.2593	143.2593	5.7500e-003	0.0000	143.4029
<b>Total</b>	<b>0.0714</b>	<b>0.4324</b>	<b>0.8806</b>	<b>1.6900e-003</b>		<b>8.0700e-003</b>	<b>8.0700e-003</b>		<b>8.0700e-003</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>143.2593</b>	<b>143.2593</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>143.4029</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0268	0.0110	1.2000e-004	4.8100e-003	1.4000e-004	4.9500e-003	1.3900e-003	1.4000e-004	1.5200e-003	0.0000	11.9648	11.9648	8.7000e-004	1.7600e-003	12.5121
Worker	5.2000e-003	3.0200e-003	0.0550	2.0000e-004	0.0293	1.0000e-004	0.0294	7.7900e-003	9.0000e-005	7.8800e-003	0.0000	19.5608	19.5608	2.9000e-004	3.8000e-004	19.6825
<b>Total</b>	<b>5.8900e-003</b>	<b>0.0299</b>	<b>0.0661</b>	<b>3.2000e-004</b>	<b>0.0341</b>	<b>2.4000e-004</b>	<b>0.0344</b>	<b>9.1800e-003</b>	<b>2.3000e-004</b>	<b>9.4000e-003</b>	<b>0.0000</b>	<b>31.5257</b>	<b>31.5257</b>	<b>1.1600e-003</b>	<b>2.1400e-003</b>	<b>32.1946</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0714	0.4324	0.8806	1.6900e-003		8.0700e-003	8.0700e-003		8.0700e-003	8.0700e-003	0.0000	143.2591	143.2591	5.7500e-003	0.0000	143.4028
<b>Total</b>	<b>0.0714</b>	<b>0.4324</b>	<b>0.8806</b>	<b>1.6900e-003</b>		<b>8.0700e-003</b>	<b>8.0700e-003</b>		<b>8.0700e-003</b>	<b>8.0700e-003</b>	<b>0.0000</b>	<b>143.2591</b>	<b>143.2591</b>	<b>5.7500e-003</b>	<b>0.0000</b>	<b>143.4028</b>

Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	0.0268	0.0110	1.2000e-004	4.5000e-003	1.4000e-004	4.6400e-003	1.3100e-003	1.4000e-004	1.4500e-003	0.0000	11.9648	11.9648	8.7000e-004	1.7600e-003	12.5121
Worker	5.2000e-003	3.0200e-003	0.0550	2.0000e-004	0.0270	1.0000e-004	0.0271	7.2200e-003	9.0000e-005	7.3200e-003	0.0000	19.5608	19.5608	2.9000e-004	3.8000e-004	19.6825
<b>Total</b>	<b>5.8900e-003</b>	<b>0.0299</b>	<b>0.0661</b>	<b>3.2000e-004</b>	<b>0.0315</b>	<b>2.4000e-004</b>	<b>0.0318</b>	<b>8.5300e-003</b>	<b>2.3000e-004</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>31.5257</b>	<b>31.5257</b>	<b>1.1600e-003</b>	<b>2.1400e-003</b>	<b>32.1946</b>

**3.9 Architectural Coating - 2029**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1767					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8200e-003	0.0189	0.0299	5.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	4.2129	4.2129	2.3000e-004	0.0000	4.2186
<b>Total</b>	<b>0.1795</b>	<b>0.0189</b>	<b>0.0299</b>	<b>5.0000e-005</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>4.2129</b>	<b>4.2129</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>4.2186</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 3 Construction - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.0000e-004	3.5200e-003	1.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.2265	1.2265	2.0000e-005	2.0000e-005	1.2343
<b>Total</b>	<b>3.4000e-004</b>	<b>2.0000e-004</b>	<b>3.5200e-003</b>	<b>1.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.2265</b>	<b>1.2265</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.2343</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Archit. Coating	0.1767					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8200e-003	0.0189	0.0299	5.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	4.2129	4.2129	2.3000e-004	0.0000	4.2186
<b>Total</b>	<b>0.1795</b>	<b>0.0189</b>	<b>0.0299</b>	<b>5.0000e-005</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>		<b>8.5000e-004</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>4.2129</b>	<b>4.2129</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>4.2186</b>

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	3.4000e-004	2.0000e-004	3.5200e-003	1.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.5000e-004	1.0000e-005	4.5000e-004	0.0000	1.2265	1.2265	2.0000e-005	2.0000e-005	1.2343
<b>Total</b>	<b>3.4000e-004</b>	<b>2.0000e-004</b>	<b>3.5200e-003</b>	<b>1.0000e-005</b>	<b>1.6700e-003</b>	<b>1.0000e-005</b>	<b>1.6800e-003</b>	<b>4.5000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.2265</b>	<b>1.2265</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.2343</b>

**3.9 Architectural Coating - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5836					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1300e-003	0.0467	0.0980	1.6000e-004		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	13.9152	13.9152	5.6000e-004	0.0000	13.9293
<b>Total</b>	<b>0.5907</b>	<b>0.0467</b>	<b>0.0980</b>	<b>1.6000e-004</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>13.9152</b>	<b>13.9152</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>13.9293</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	6.2000e-004	0.0112	4.0000e-005	5.9800e-003	2.0000e-005	6.0000e-003	1.5900e-003	2.0000e-005	1.6100e-003	0.0000	3.9920	3.9920	6.0000e-005	8.0000e-005	4.0168
<b>Total</b>	<b>1.0600e-003</b>	<b>6.2000e-004</b>	<b>0.0112</b>	<b>4.0000e-005</b>	<b>5.9800e-003</b>	<b>2.0000e-005</b>	<b>6.0000e-003</b>	<b>1.5900e-003</b>	<b>2.0000e-005</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>3.9920</b>	<b>3.9920</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>4.0168</b>

Phase 3 Construction - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5836					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1300e-003	0.0467	0.0980	1.6000e-004		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	13.9152	13.9152	5.6000e-004	0.0000	13.9293
<b>Total</b>	<b>0.5907</b>	<b>0.0467</b>	<b>0.0980</b>	<b>1.6000e-004</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>13.9152</b>	<b>13.9152</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>13.9293</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	6.2000e-004	0.0112	4.0000e-005	5.5200e-003	2.0000e-005	5.5400e-003	1.4700e-003	2.0000e-005	1.4900e-003	0.0000	3.9920	3.9920	6.0000e-005	8.0000e-005	4.0168
<b>Total</b>	<b>1.0600e-003</b>	<b>6.2000e-004</b>	<b>0.0112</b>	<b>4.0000e-005</b>	<b>5.5200e-003</b>	<b>2.0000e-005</b>	<b>5.5400e-003</b>	<b>1.4700e-003</b>	<b>2.0000e-005</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>3.9920</b>	<b>3.9920</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>4.0168</b>

**Phase 3 Construction**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rough Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Trenchers	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	6	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	5	No Change	0.00
Scrapers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	12	No Change	0.00

**Phase 3 Construction**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Welders	Diesel	No Change	0	No Change	0.00
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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Air Compressors	9.94000E-003	6.55700E-002	1.27830E-001	2.10000E-004	1.96000E-003	1.96000E-003	0.00000E+000	1.81281E+001	1.81281E+001	7.90000E-004	0.00000E+000	1.81479E+001
Cranes	7.62600E-002	6.86620E-001	4.17890E-001	1.51000E-003	2.87500E-002	2.65600E-002	0.00000E+000	1.32182E+002	1.32182E+002	3.43800E-002	0.00000E+000	1.33042E+002
Excavators	9.87300E-002	7.21780E-001	1.92572E+000	3.05000E-003	3.53900E-002	3.25600E-002	0.00000E+000	2.68175E+002	2.68175E+002	8.67300E-002	0.00000E+000	2.70343E+002
Forklifts	7.51300E-002	6.50750E-001	9.85790E-001	1.37000E-003	3.16400E-002	2.92000E-002	0.00000E+000	1.20131E+002	1.20131E+002	3.14600E-002	0.00000E+000	1.20917E+002
Generator Sets	7.25700E-002	6.55230E-001	1.04896E+000	1.89000E-003	2.42100E-002	2.42100E-002	0.00000E+000	1.62215E+002	1.62215E+002	5.72000E-003	0.00000E+000	1.62358E+002
Graders	6.61100E-002	7.34540E-001	3.38750E-001	1.41000E-003	2.36400E-002	2.17500E-002	0.00000E+000	1.23423E+002	1.23423E+002	3.99200E-002	0.00000E+000	1.24421E+002
Pavers	2.45100E-002	2.23220E-001	4.08300E-001	6.60000E-004	1.04500E-002	9.62000E-003	0.00000E+000	5.81996E+001	5.81996E+001	1.88200E-002	0.00000E+000	5.86702E+001
Paving Equipment	2.07000E-002	1.78320E-001	3.59050E-001	5.70000E-004	8.82000E-003	8.11000E-003	0.00000E+000	5.04383E+001	5.04383E+001	1.63100E-002	0.00000E+000	5.08462E+001
Rollers	1.93100E-002	2.03470E-001	2.60390E-001	3.70000E-004	1.02300E-002	9.41000E-003	0.00000E+000	3.24978E+001	3.24978E+001	1.05100E-002	0.00000E+000	3.27606E+001
Rubber Tired Dozers	1.83400E-001	1.87662E+000	8.48350E-001	2.42000E-003	8.21100E-002	7.55400E-002	0.00000E+000	2.12308E+002	2.12308E+002	6.86600E-002	0.00000E+000	2.14025E+002
Scrapers	2.85520E-001	2.70758E+000	2.28675E+000	6.45000E-003	1.06570E-001	9.80500E-002	0.00000E+000	5.66049E+002	5.66049E+002	1.83070E-001	0.00000E+000	5.70626E+002
Tractors/Loaders/B Backhoes	1.83320E-001	1.75054E+000	3.01339E+000	4.29000E-003	6.76900E-002	6.24900E-002	0.00000E+000	3.75791E+002	3.75791E+002	1.08410E-001	0.00000E+000	3.78502E+002
Trenchers	2.60400E-002	2.44030E-001	2.12970E-001	2.80000E-004	1.62500E-002	1.49500E-002	0.00000E+000	2.46219E+001	2.46219E+001	7.96000E-003	0.00000E+000	2.48210E+001
Welders	6.00300E-002	3.77150E-001	4.71300E-001	7.30000E-004	1.04000E-002	1.04000E-002	0.00000E+000	5.40193E+001	5.40193E+001	4.88000E-003	0.00000E+000	5.41413E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Air Compressors	9.94000E-003	6.55700E-002	1.27830E-001	2.10000E-004	1.96000E-003	1.96000E-003	0.00000E+000	1.81281E+001	1.81281E+001	7.90000E-004	0.00000E+000	1.81479E+001
Cranes	7.62600E-002	6.86620E-001	4.17880E-001	1.51000E-003	2.87500E-002	2.65600E-002	0.00000E+000	1.32182E+002	1.32182E+002	3.43800E-002	0.00000E+000	1.33041E+002
Excavators	9.87300E-002	7.21780E-001	1.92572E+000	3.05000E-003	3.53900E-002	3.25600E-002	0.00000E+000	2.68175E+002	2.68175E+002	8.67300E-002	0.00000E+000	2.70343E+002
Forklifts	7.51300E-002	6.50750E-001	9.85790E-001	1.37000E-003	3.16400E-002	2.92000E-002	0.00000E+000	1.20131E+002	1.20131E+002	3.14600E-002	0.00000E+000	1.20917E+002
Generator Sets	7.25700E-002	6.55230E-001	1.04896E+000	1.89000E-003	2.42100E-002	2.42100E-002	0.00000E+000	1.62214E+002	1.62214E+002	5.72000E-003	0.00000E+000	1.62357E+002
Graders	6.61100E-002	7.34540E-001	3.38750E-001	1.41000E-003	2.36400E-002	2.17500E-002	0.00000E+000	1.23423E+002	1.23423E+002	3.99200E-002	0.00000E+000	1.24421E+002
Pavers	2.45100E-002	2.23220E-001	4.08300E-001	6.60000E-004	1.04500E-002	9.62000E-003	0.00000E+000	5.81995E+001	5.81995E+001	1.88200E-002	0.00000E+000	5.86701E+001
Paving Equipment	2.07000E-002	1.78320E-001	3.59050E-001	5.70000E-004	8.82000E-003	8.11000E-003	0.00000E+000	5.04383E+001	5.04383E+001	1.63100E-002	0.00000E+000	5.08461E+001

**Phase 3 Construction**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Rollers	1.93100E-002	2.03460E-001	2.60390E-001	3.70000E-004	1.02300E-002	9.41000E-003	0.00000E+000	3.24978E+001	3.24978E+001	1.05100E-002	0.00000E+000	3.27606E+001
Rubber Tired Dozers	1.83400E-001	1.87662E+000	8.48350E-001	2.42000E-003	8.21100E-002	7.55400E-002	0.00000E+000	2.12308E+002	2.12308E+002	6.86600E-002	0.00000E+000	2.14025E+002
Scrapers	2.85520E-001	2.70758E+000	2.28675E+000	6.45000E-003	1.06570E-001	9.80500E-002	0.00000E+000	5.66049E+002	5.66049E+002	1.83070E-001	0.00000E+000	5.70625E+002
Tractors/Loaders/Bac khoes	1.83320E-001	1.75054E+000	3.01338E+000	4.29000E-003	6.76900E-002	6.24900E-002	0.00000E+000	3.75791E+002	3.75791E+002	1.08410E-001	0.00000E+000	3.78501E+002
Trenchers	2.60400E-002	2.44030E-001	2.12970E-001	2.80000E-004	1.62500E-002	1.49500E-002	0.00000E+000	2.46219E+001	2.46219E+001	7.96000E-003	0.00000E+000	2.48210E+001
Welders	6.00300E-002	3.77150E-001	4.71300E-001	7.30000E-004	1.04000E-002	1.04000E-002	0.00000E+000	5.40193E+001	5.40193E+001	4.88000E-003	0.00000E+000	5.41413E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10326E-006	1.10326E-006	0.00000E+000	0.00000E+000	1.65308E-006
Cranes	0.00000E+000	0.00000E+000	2.39297E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13480E-006	1.13480E-006	0.00000E+000	0.00000E+000	1.12747E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15596E-006	1.15596E-006	0.00000E+000	0.00000E+000	1.18368E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16540E-006	1.16540E-006	0.00000E+000	0.00000E+000	1.24052E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17129E-006	1.17129E-006	0.00000E+000	0.00000E+000	1.17026E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21533E-006	1.21533E-006	0.00000E+000	0.00000E+000	1.20558E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20276E-006	1.20276E-006	0.00000E+000	0.00000E+000	1.19311E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18957E-006	1.18957E-006	0.00000E+000	0.00000E+000	1.18003E-006
Rollers	0.00000E+000	4.91473E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23085E-006	1.23085E-006	0.00000E+000	0.00000E+000	1.22098E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17753E-006	1.17753E-006	0.00000E+000	0.00000E+000	1.16809E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18364E-006	1.18364E-006	0.00000E+000	0.00000E+000	1.19167E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	3.31852E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19747E-006	1.19747E-006	0.00000E+000	0.00000E+000	1.18890E-006
Trenchers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21843E-006	1.21843E-006	0.00000E+000	0.00000E+000	1.20865E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11071E-006	1.11071E-006	0.00000E+000	0.00000E+000	1.29291E-006

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction 0.00

**Phase 3 Construction**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.18	0.05	0.17	0.04	0.08	0.07
Fine Grading	Fugitive Dust	1.18	0.38	0.50	0.16	0.57	0.57
Fine Grading	Roads	0.03	0.01	0.03	0.01	0.07	0.07
Finishing/Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Rough Grading	Fugitive Dust	1.46	0.47	0.62	0.20	0.57	0.57
Rough Grading	Roads	0.04	0.01	0.03	0.01	0.07	0.07
Site Preparation	Fugitive Dust	0.46	0.24	0.20	0.10	0.57	0.57
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Utility Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	Roads	0.01	0.00	0.01	0.00	0.08	0.07

# CalEEMod Output: Western Remediation Construction

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Western Remediation Area - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Western Remediation Area  
 Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	94.90	Acre	94.90	4,133,844.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2023

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on an overall duration of 1 month.

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Grading -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	155.00	17.00
tblConstructionPhase	NumDays	60.00	6.00
tblGrading	MaterialExported	0.00	18,157.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00

Western Remediation Area - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.1044	89.0363	44.6782	0.3422	19.9605	1.8120	21.2304	10.1853	1.6812	11.3537	0.0000	37,925.0350	37,925.0350	5.1805	5.0832	39,569.3327
Maximum	4.1044	89.0363	44.6782	0.3422	19.9605	1.8120	21.2304	10.1853	1.6812	11.3537	0.0000	37,925.0350	37,925.0350	5.1805	5.0832	39,569.3327

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.1044	89.0363	44.6782	0.3422	12.5129	1.8120	14.3249	4.3961	1.6812	5.6040	0.0000	37,925.0350	37,925.0350	5.1805	5.0832	39,569.3327
Maximum	4.1044	89.0363	44.6782	0.3422	12.5129	1.8120	14.3249	4.3961	1.6812	5.6040	0.0000	37,925.0350	37,925.0350	5.1805	5.0832	39,569.3327

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.31	0.00	32.53	56.84	0.00	50.64	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

Construction Phase

Western Remediation Area - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	8/8/2023	5	6	
2	Grading	Grading	8/9/2023	8/31/2023	5	17	

**Acres of Grading (Site Preparation Phase): 9**

**Acres of Grading (Grading Phase): 51**

**Acres of Paving: 94.9**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	32.00	2,270.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2023**

Western Remediation Area - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0162	0.5607	0.2325	2.8800e-003	0.1023	2.8800e-003	0.1052	0.0294	2.7500e-003	0.0322		315.9190	315.9190	0.0188	0.0453	329.8970
Worker	0.0507	0.0325	0.5512	1.7000e-003	0.2012	1.0300e-003	0.2022	0.0534	9.5000e-004	0.0543		173.7559	173.7559	3.7700e-003	3.7100e-003	174.9549
<b>Total</b>	<b>0.0669</b>	<b>0.5932</b>	<b>0.7837</b>	<b>4.5800e-003</b>	<b>0.3035</b>	<b>3.9100e-003</b>	<b>0.3074</b>	<b>0.0828</b>	<b>3.7000e-003</b>	<b>0.0865</b>		<b>489.6749</b>	<b>489.6749</b>	<b>0.0226</b>	<b>0.0490</b>	<b>504.8520</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Western Remediation Area - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000		0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926	3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.2660</b>	<b>9.6694</b>	<b>4.3188</b>	<b>1.1647</b>	<b>5.4835</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>	<b>3,717.1219</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0162	0.5607	0.2325	2.8800e-003	0.0957	2.8800e-003	0.0986	0.0278	2.7500e-003	0.0306		315.9190	315.9190	0.0188	0.0453	329.8970
Worker	0.0507	0.0325	0.5512	1.7000e-003	0.1855	1.0300e-003	0.1865	0.0495	9.5000e-004	0.0504		173.7559	173.7559	3.7700e-003	3.7100e-003	174.9549
<b>Total</b>	<b>0.0669</b>	<b>0.5932</b>	<b>0.7837</b>	<b>4.5800e-003</b>	<b>0.2812</b>	<b>3.9100e-003</b>	<b>0.2851</b>	<b>0.0773</b>	<b>3.7000e-003</b>	<b>0.0810</b>		<b>489.6749</b>	<b>489.6749</b>	<b>0.0226</b>	<b>0.0490</b>	<b>504.8520</b>

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3244	0.0000	9.3244	3.6721	0.0000	3.6721			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836

Western Remediation Area - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	3.3217	34.5156	28.0512	0.0621	9.3244	1.4245	10.7489	3.6721	1.3105	4.9826		6,011.4777	6,011.4777	1.9442		6,060.0836
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6940	53.3632	15.5496	0.2725	8.7250	0.3806	9.1056	2.3886	0.3641	2.7527		31,088.657 2	31,088.657 2	3.1945	4.9884	32,655.060 7
Vendor	0.0323	1.1215	0.4650	5.7500e-003	0.2046	5.7500e-003	0.2104	0.0589	5.5000e-003	0.0644		631.8380	631.8380	0.0376	0.0907	659.7941
Worker	0.0564	0.0361	0.6124	1.8900e-003	0.2236	1.1400e-003	0.2247	0.0593	1.0500e-003	0.0603		193.0621	193.0621	4.1900e-003	4.1200e-003	194.3944
Total	0.7827	54.5207	16.6270	0.2801	9.1532	0.3875	9.5407	2.5068	0.3707	2.8775		31,913.557 3	31,913.557 3	3.2363	5.0832	33,509.249 2

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9862	0.0000	3.9862	1.5698	0.0000	1.5698			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	3.9862	1.4245	5.4107	1.5698	1.3105	2.8803	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

Western Remediation Area - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6940	53.3632	15.5496	0.2725	8.1292	0.3806	8.5098	2.2424	0.3641	2.6065		31,088.657 2	31,088.657 2	3.1945	4.9884	32,655.060 7
Vendor	0.0323	1.1215	0.4650	5.7500e-003	0.1915	5.7500e-003	0.1972	0.0557	5.5000e-003	0.0612		631.8380	631.8380	0.0376	0.0907	659.7941
Worker	0.0564	0.0361	0.6124	1.8900e-003	0.2061	1.1400e-003	0.2072	0.0550	1.0500e-003	0.0561		193.0621	193.0621	4.1900e-003	4.1200e-003	194.3944
<b>Total</b>	<b>0.7827</b>	<b>54.5207</b>	<b>16.6270</b>	<b>0.2801</b>	<b>8.5267</b>	<b>0.3875</b>	<b>8.9142</b>	<b>2.3530</b>	<b>0.3707</b>	<b>2.7237</b>		<b>31,913.557 3</b>	<b>31,913.557 3</b>	<b>3.2363</b>	<b>5.0832</b>	<b>33,509.249 2</b>

Western Remediation Area - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Western Remediation Area  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	94.90	Acre	94.90	4,133,844.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2023

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on an overall duration of 1 month.

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Grading -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	155.00	17.00
tblConstructionPhase	NumDays	60.00	6.00
tblGrading	MaterialExported	0.00	18,157.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00



Western Remediation Area - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.0921	91.1920	44.7005	0.3422	19.9605	1.8123	21.2305	10.1853	1.6815	11.3537	0.0000	37,924.4355	37,924.4355	5.1795	5.0850	39,569.2640
Maximum	4.0921	91.1920	44.7005	0.3422	19.9605	1.8123	21.2305	10.1853	1.6815	11.3537	0.0000	37,924.4355	37,924.4355	5.1795	5.0850	39,569.2640

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.0921	91.1920	44.7005	0.3422	12.5129	1.8123	14.3252	4.3961	1.6815	5.6043	0.0000	37,924.4355	37,924.4355	5.1795	5.0850	39,569.2640
Maximum	4.0921	91.1920	44.7005	0.3422	12.5129	1.8123	14.3252	4.3961	1.6815	5.6043	0.0000	37,924.4355	37,924.4355	5.1795	5.0850	39,569.2640

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.31	0.00	32.53	56.84	0.00	50.64	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Western Remediation Area - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	8/8/2023	5	6	
2	Grading	Grading	8/9/2023	8/31/2023	5	17	

**Acres of Grading (Site Preparation Phase): 9**

**Acres of Grading (Grading Phase): 51**

**Acres of Paving: 94.9**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	32.00	2,270.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2023**

Western Remediation Area - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0156	0.5857	0.2399	2.8800e-003	0.1023	2.9000e-003	0.1052	0.0294	2.7700e-003	0.0322		316.3837	316.3837	0.0187	0.0454	330.3911
Worker	0.0554	0.0356	0.5135	1.6200e-003	0.2012	1.0300e-003	0.2022	0.0534	9.5000e-004	0.0543		165.4482	165.4482	3.8600e-003	3.9400e-003	166.7201
<b>Total</b>	<b>0.0710</b>	<b>0.6214</b>	<b>0.7534</b>	<b>4.5000e-003</b>	<b>0.3035</b>	<b>3.9300e-003</b>	<b>0.3074</b>	<b>0.0828</b>	<b>3.7200e-003</b>	<b>0.0865</b>		<b>481.8318</b>	<b>481.8318</b>	<b>0.0226</b>	<b>0.0494</b>	<b>497.1112</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Western Remediation Area - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000		0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926	3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.2660</b>	<b>9.6694</b>	<b>4.3188</b>	<b>1.1647</b>	<b>5.4835</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>	<b>3,717.1219</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0156	0.5857	0.2399	2.8800e-003	0.0957	2.9000e-003	0.0986	0.0278	2.7700e-003	0.0306		316.3837	316.3837	0.0187	0.0454	330.3911
Worker	0.0554	0.0356	0.5135	1.6200e-003	0.1855	1.0300e-003	0.1865	0.0495	9.5000e-004	0.0504		165.4482	165.4482	3.8600e-003	3.9400e-003	166.7201
<b>Total</b>	<b>0.0710</b>	<b>0.6214</b>	<b>0.7534</b>	<b>4.5000e-003</b>	<b>0.2812</b>	<b>3.9300e-003</b>	<b>0.2851</b>	<b>0.0773</b>	<b>3.7200e-003</b>	<b>0.0810</b>		<b>481.8318</b>	<b>481.8318</b>	<b>0.0226</b>	<b>0.0494</b>	<b>497.1112</b>

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3244	0.0000	9.3244	3.6721	0.0000	3.6721			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836

Western Remediation Area - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	3.3217	34.5156	28.0512	0.0621	9.3244	1.4245	10.7489	3.6721	1.3105	4.9826		6,011.4777	6,011.4777	1.9442		6,060.0836
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6776	55.4653	15.5991	0.2725	8.7250	0.3809	9.1059	2.3886	0.3644	2.7530		31,096.3591	31,096.3591	3.1935	4.9898	32,663.1536
Vendor	0.0312	1.1715	0.4798	5.7600e-003	0.2046	5.7900e-003	0.2104	0.0589	5.5400e-003	0.0644		632.7673	632.7673	0.0375	0.0909	660.7823
Worker	0.0616	0.0396	0.5705	1.8000e-003	0.2236	1.1400e-003	0.2247	0.0593	1.0500e-003	0.0603		183.8313	183.8313	4.2900e-003	4.3800e-003	185.2446
Total	0.7704	56.6764	16.6494	0.2801	9.1532	0.3878	9.5410	2.5068	0.3710	2.8778		31,912.9577	31,912.9577	3.2352	5.0850	33,509.1804

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9862	0.0000	3.9862	1.5698	0.0000	1.5698			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	3.9862	1.4245	5.4107	1.5698	1.3105	2.8803	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

Western Remediation Area - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6776	55.4653	15.5991	0.2725	8.1292	0.3809	8.5101	2.2424	0.3644	2.6068		31,096.359 1	31,096.359 1	3.1935	4.9898	32,663.153 6
Vendor	0.0312	1.1715	0.4798	5.7600e-003	0.1915	5.7900e-003	0.1973	0.0557	5.5400e-003	0.0612		632.7673	632.7673	0.0375	0.0909	660.7823
Worker	0.0616	0.0396	0.5705	1.8000e-003	0.2061	1.1400e-003	0.2072	0.0550	1.0500e-003	0.0561		183.8313	183.8313	4.2900e-003	4.3800e-003	185.2446
<b>Total</b>	<b>0.7704</b>	<b>56.6764</b>	<b>16.6494</b>	<b>0.2801</b>	<b>8.5267</b>	<b>0.3878</b>	<b>8.9145</b>	<b>2.3530</b>	<b>0.3710</b>	<b>2.7240</b>		<b>31,912.957 7</b>	<b>31,912.957 7</b>	<b>3.2352</b>	<b>5.0850</b>	<b>33,509.180 4</b>

Western Remediation Area - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Western Remediation Area  
 Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	94.90	Acre	94.90	4,133,844.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2023

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on an overall duration of 1 month.

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Grading -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	155.00	17.00
tblConstructionPhase	NumDays	60.00	6.00
tblGrading	MaterialExported	0.00	18,157.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00

Western Remediation Area - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0430	0.8666	0.4367	3.0400e-003	0.2157	0.0192	0.2349	0.0828	0.0178	0.1006	0.0000	303.7705	303.7705	0.0433	0.0393	316.5752
Maximum	0.0430	0.8666	0.4367	3.0400e-003	0.2157	0.0192	0.2349	0.0828	0.0178	0.1006	0.0000	303.7705	303.7705	0.0433	0.0393	316.5752

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0430	0.8666	0.4367	3.0400e-003	0.1313	0.0192	0.1505	0.0463	0.0178	0.0641	0.0000	303.7704	303.7704	0.0433	0.0393	316.5751
Maximum	0.0430	0.8666	0.4367	3.0400e-003	0.1313	0.0192	0.1505	0.0463	0.0178	0.0641	0.0000	303.7704	303.7704	0.0433	0.0393	316.5751

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.14	0.00	35.93	44.11	0.00	36.31	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2023	9-30-2023	0.8532	0.8532
		Highest	0.8532	0.8532



Western Remediation Area - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	8/8/2023	5	6	
2	Grading	Grading	8/9/2023	8/31/2023	5	17	

Acres of Grading (Site Preparation Phase): 9

Acres of Grading (Grading Phase): 51

Acres of Paving: 94.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	32.00	2,270.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Western Remediation Area - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0590	0.0000	0.0590	0.0303	0.0000	0.0303	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9800e-003	0.0826	0.0547	1.1000e-004		3.8000e-003	3.8000e-003		3.4900e-003	3.4900e-003	0.0000	10.0352	10.0352	3.2500e-003	0.0000	10.1164
<b>Total</b>	<b>7.9800e-003</b>	<b>0.0826</b>	<b>0.0547</b>	<b>1.1000e-004</b>	<b>0.0590</b>	<b>3.8000e-003</b>	<b>0.0628</b>	<b>0.0303</b>	<b>3.4900e-003</b>	<b>0.0338</b>	<b>0.0000</b>	<b>10.0352</b>	<b>10.0352</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>10.1164</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.7600e-003	7.1000e-004	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8603	0.8603	5.0000e-005	1.2000e-004	0.8984
Worker	1.5000e-004	1.1000e-004	1.5800e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4564	0.4564	1.0000e-005	1.0000e-005	0.4599
<b>Total</b>	<b>2.0000e-004</b>	<b>1.8700e-003</b>	<b>2.2900e-003</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>1.0000e-005</b>	<b>9.1000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.3167</b>	<b>1.3167</b>	<b>6.0000e-005</b>	<b>1.3000e-004</b>	<b>1.3583</b>

**Mitigated Construction On-Site**

Western Remediation Area - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0252	0.0000	0.0252	0.0130	0.0000	0.0130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9800e-003	0.0826	0.0547	1.1000e-004		3.8000e-003	3.8000e-003		3.4900e-003	3.4900e-003	0.0000	10.0352	10.0352	3.2500e-003	0.0000	10.1163
<b>Total</b>	<b>7.9800e-003</b>	<b>0.0826</b>	<b>0.0547</b>	<b>1.1000e-004</b>	<b>0.0252</b>	<b>3.8000e-003</b>	<b>0.0290</b>	<b>0.0130</b>	<b>3.4900e-003</b>	<b>0.0165</b>	<b>0.0000</b>	<b>10.0352</b>	<b>10.0352</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>10.1163</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.7600e-003	7.1000e-004	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.8603	0.8603	5.0000e-005	1.2000e-004	0.8984
Worker	1.5000e-004	1.1000e-004	1.5800e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4564	0.4564	1.0000e-005	1.0000e-005	0.4599
<b>Total</b>	<b>2.0000e-004</b>	<b>1.8700e-003</b>	<b>2.2900e-003</b>	<b>1.0000e-005</b>	<b>8.3000e-004</b>	<b>1.0000e-005</b>	<b>8.4000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>1.3167</b>	<b>1.3167</b>	<b>6.0000e-005</b>	<b>1.3000e-004</b>	<b>1.3583</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

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

Western Remediation Area - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Fugitive Dust					0.0793	0.0000	0.0793	0.0312	0.0000	0.0312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
<b>Total</b>	<b>0.0282</b>	<b>0.2934</b>	<b>0.2384</b>	<b>5.3000e-004</b>	<b>0.0793</b>	<b>0.0121</b>	<b>0.0914</b>	<b>0.0312</b>	<b>0.0111</b>	<b>0.0424</b>	<b>0.0000</b>	<b>46.3549</b>	<b>46.3549</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7297</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8400e-003	0.4784	0.1323	2.3200e-003	0.0730	3.2400e-003	0.0762	0.0200	3.1000e-003	0.0231	0.0000	239.7517	239.7517	0.0246	0.0385	251.8320
Vendor	2.7000e-004	9.9900e-003	4.0100e-003	5.0000e-005	1.7100e-003	5.0000e-005	1.7600e-003	4.9000e-004	5.0000e-005	5.4000e-004	0.0000	4.8752	4.8752	2.9000e-004	7.0000e-004	5.0910
Worker	4.8000e-004	3.4000e-004	4.9600e-003	2.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.0000e-004	0.0000	1.4367	1.4367	3.0000e-005	3.0000e-005	1.4478
<b>Total</b>	<b>6.5900e-003</b>	<b>0.4887</b>	<b>0.1413</b>	<b>2.3900e-003</b>	<b>0.0766</b>	<b>3.3000e-003</b>	<b>0.0799</b>	<b>0.0210</b>	<b>3.1600e-003</b>	<b>0.0242</b>	<b>0.0000</b>	<b>246.0636</b>	<b>246.0636</b>	<b>0.0250</b>	<b>0.0392</b>	<b>258.3708</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0339	0.0000	0.0339	0.0133	0.0000	0.0133	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
<b>Total</b>	<b>0.0282</b>	<b>0.2934</b>	<b>0.2384</b>	<b>5.3000e-004</b>	<b>0.0339</b>	<b>0.0121</b>	<b>0.0460</b>	<b>0.0133</b>	<b>0.0111</b>	<b>0.0245</b>	<b>0.0000</b>	<b>46.3549</b>	<b>46.3549</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7297</b>

Western Remediation Area - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8400e-003	0.4784	0.1323	2.3200e-003	0.0681	3.2400e-003	0.0713	0.0188	3.1000e-003	0.0219	0.0000	239.7517	239.7517	0.0246	0.0385	251.8320
Vendor	2.7000e-004	9.9900e-003	4.0100e-003	5.0000e-005	1.6000e-003	5.0000e-005	1.6500e-003	4.7000e-004	5.0000e-005	5.1000e-004	0.0000	4.8752	4.8752	2.9000e-004	7.0000e-004	5.0910
Worker	4.8000e-004	3.4000e-004	4.9600e-003	2.0000e-005	1.7200e-003	1.0000e-005	1.7300e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4367	1.4367	3.0000e-005	3.0000e-005	1.4478
<b>Total</b>	<b>6.5900e-003</b>	<b>0.4887</b>	<b>0.1413</b>	<b>2.3900e-003</b>	<b>0.0714</b>	<b>3.3000e-003</b>	<b>0.0747</b>	<b>0.0197</b>	<b>3.1600e-003</b>	<b>0.0229</b>	<b>0.0000</b>	<b>246.0636</b>	<b>246.0636</b>	<b>0.0250</b>	<b>0.0392</b>	<b>258.3708</b>

**Western Remediation Area**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Excavators	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	6	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Excavators	3.21000E-003	2.63300E-002	5.53800E-002	9.00000E-005	1.29000E-003	1.19000E-003	0.00000E+000	7.71270E+000	7.71270E+000	2.49000E-003	0.00000E+000	7.77506E+000
Graders	3.26000E-003	3.95500E-002	1.43900E-002	6.00000E-005	1.28000E-003	1.18000E-003	0.00000E+000	4.94168E+000	4.94168E+000	1.60000E-003	0.00000E+000	4.98164E+000
Rubber Tired Dozers	1.19800E-002	1.24730E-001	5.43600E-002	1.50000E-004	5.62000E-003	5.17000E-003	0.00000E+000	1.31292E+001	1.31292E+001	4.25000E-003	0.00000E+000	1.32354E+001
Scrapers	1.33800E-002	1.40820E-001	1.04330E-001	2.60000E-004	5.52000E-003	5.08000E-003	0.00000E+000	2.26725E+001	2.26725E+001	7.33000E-003	0.00000E+000	2.28559E+001
Tractors/Loaders/Backhoes	4.39000E-003	4.45300E-002	6.47100E-002	9.00000E-005	2.20000E-003	2.02000E-003	0.00000E+000	7.93398E+000	7.93398E+000	2.57000E-003	0.00000E+000	7.99813E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Excavators	3.21000E-003	2.63300E-002	5.53800E-002	9.00000E-005	1.29000E-003	1.19000E-003	0.00000E+000	7.71269E+000	7.71269E+000	2.49000E-003	0.00000E+000	7.77505E+000
Graders	3.26000E-003	3.95500E-002	1.43900E-002	6.00000E-005	1.28000E-003	1.18000E-003	0.00000E+000	4.94167E+000	4.94167E+000	1.60000E-003	0.00000E+000	4.98163E+000

**Western Remediation Area**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Rubber Tired Dozers	1.19800E-002	1.24720E-001	5.43600E-002	1.50000E-004	5.62000E-003	5.17000E-003	0.00000E+000	1.31292E+001	1.31292E+001	4.25000E-003	0.00000E+000	1.32354E+001
Scrapers	1.33700E-002	1.40820E-001	1.04330E-001	2.60000E-004	5.52000E-003	5.08000E-003	0.00000E+000	2.26725E+001	2.26725E+001	7.33000E-003	0.00000E+000	2.28558E+001
Tractors/Loaders/Bac khnes	4.39000E-003	4.45300E-002	6.47100E-002	9.00000E-005	2.20000E-003	2.02000E-003	0.00000E+000	7.93397E+000	7.93397E+000	2.57000E-003	0.00000E+000	7.99812E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29656E-006	1.29656E-006	0.00000E+000	0.00000E+000	1.28616E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.02360E-006	2.02360E-006	0.00000E+000	0.00000E+000	2.00737E-006
Rubber Tired Dozers	0.00000E+000	8.01732E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	7.61659E-007	7.61659E-007	0.00000E+000	0.00000E+000	1.51110E-006
Scrapers	7.47384E-004	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.82125E-007	8.82125E-007	0.00000E+000	0.00000E+000	1.31257E-006
Tractors/Loaders/Bac khnes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26040E-006	1.26040E-006	0.00000E+000	0.00000E+000	1.25029E-006

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input			
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Grading	Fugitive Dust	0.08	0.03	0.03	0.01	0.57	0.57
Grading	Roads	0.08	0.02	0.07	0.02	0.07	0.06
Site Preparation	Fugitive Dust	0.06	0.03	0.03	0.01	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.08

# CalEEMod Output: Eastern Remediation Construction



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Eastern Remediation Area - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Eastern Remediation Area  
 Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	167.20	Acre	167.20	7,283,232.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
--------------------------------	---	--------------------------------	---	--------------------------------	---

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

Project Characteristics -

Land Use -

Construction Phase - Based on total overall duration of 1 month.

Grading -

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	310.00	17.00
tblConstructionPhase	NumDays	120.00	6.00
tblConstructionPhase	PhaseEndDate	3/1/2027	10/31/2024
tblConstructionPhase	PhaseEndDate	12/22/2025	10/8/2024
tblConstructionPhase	PhaseStartDate	12/23/2025	10/9/2024
tblConstructionPhase	PhaseStartDate	7/8/2025	10/1/2024
tblGrading	MaterialExported	0.00	17,498.00

Eastern Remediation Area - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.9453	84.0066	43.9414	0.3250	20.0628	1.7222	21.2992	10.2147	1.5986	11.3524	0.0000	36,051.673 1	36,051.673 1	5.0836	4.7920	37,606.779 3
Maximum	3.9453	84.0066	43.9414	0.3250	20.0628	1.7222	21.2992	10.2147	1.5986	11.3524	0.0000	36,051.673 1	36,051.673 1	5.0836	4.7920	37,606.779 3

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.9453	84.0066	43.9414	0.3250	12.1177	1.7222	13.8399	4.4240	1.5986	5.5616	0.0000	36,051.673 1	36,051.673 1	5.0836	4.7920	37,606.779 3
Maximum	3.9453	84.0066	43.9414	0.3250	12.1177	1.7222	13.8399	4.4240	1.5986	5.5616	0.0000	36,051.673 1	36,051.673 1	5.0836	4.7920	37,606.779 3

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.60	0.00	35.02	56.69	0.00	51.01	0.00	0.00	0.00	0.00	0.00	0.00

Eastern Remediation Area - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	10/8/2024	5	6	
2	Grading	Grading	10/9/2024	10/31/2024	5	17	

Acres of Grading (Site Preparation Phase): 9

Acres of Grading (Grading Phase): 51

Acres of Paving: 167.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	16.00	2,187.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	32.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area

Eastern Remediation Area - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0318	1.1182	0.4615	5.6500e-003	0.2046	6.0200e-003	0.2106	0.0589	5.7600e-003	0.0647		622.0364	622.0364	0.0380	0.0896	649.6959
Worker	0.0477	0.0292	0.5137	1.6400e-003	0.2012	9.8000e-004	0.2022	0.0534	9.0000e-004	0.0543		169.5759	169.5759	3.4200e-003	3.4700e-003	170.6946
<b>Total</b>	<b>0.0795</b>	<b>1.1473</b>	<b>0.9753</b>	<b>7.2900e-003</b>	<b>0.4058</b>	<b>7.0000e-003</b>	<b>0.4128</b>	<b>0.1123</b>	<b>6.6600e-003</b>	<b>0.1189</b>		<b>791.6122</b>	<b>791.6122</b>	<b>0.0414</b>	<b>0.0931</b>	<b>820.3905</b>

**Mitigated Construction On-Site**

Eastern Remediation Area - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000				0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928			3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.2294</b>	<b>9.6327</b>	<b>4.3188</b>	<b>1.1310</b>	<b>5.4498</b>	<b>0.0000</b>	<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>			<b>3,717.8294</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0318	1.1182	0.4615	5.6500e-003	0.1915	6.0200e-003	0.1975	0.0557	5.7600e-003	0.0614		622.0364	622.0364	0.0380	0.0896	649.6959
Worker	0.0477	0.0292	0.5137	1.6400e-003	0.1855	9.8000e-004	0.1864	0.0495	9.0000e-004	0.0504		169.5759	169.5759	3.4200e-003	3.4700e-003	170.6946
<b>Total</b>	<b>0.0795</b>	<b>1.1473</b>	<b>0.9753</b>	<b>7.2900e-003</b>	<b>0.3769</b>	<b>7.0000e-003</b>	<b>0.3839</b>	<b>0.1052</b>	<b>6.6600e-003</b>	<b>0.1118</b>		<b>791.6122</b>	<b>791.6122</b>	<b>0.0414</b>	<b>0.0931</b>	<b>820.3905</b>

**3.3 Grading - 2024**

Unmitigated Construction On-Site

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

Eastern Remediation Area - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000		0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437	6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.3200</b>	<b>1.3354</b>	<b>10.6554</b>	<b>3.6714</b>	<b>1.2286</b>	<b>4.9000</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>	<b>6,058.3405</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6583	51.0382	15.4170	0.2583	8.4056	0.3827	8.7883	2.3012	0.3661	2.6673		29,542.4886	29,542.4886	3.1171	4.7433	31,033.9302
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.1023	3.0100e-003	0.1053	0.0294	2.8800e-003	0.0323		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.7272</b>	<b>51.6296</b>	<b>16.2185</b>	<b>0.2629</b>	<b>8.7315</b>	<b>0.3868</b>	<b>9.1183</b>	<b>2.3899</b>	<b>0.3700</b>	<b>2.7599</b>		<b>30,041.9244</b>	<b>30,041.9244</b>	<b>3.1399</b>	<b>4.7920</b>	<b>31,548.4388</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9843	0.0000	3.9843	1.5695	0.0000	1.5695			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.9843</b>	<b>1.3354</b>	<b>5.3197</b>	<b>1.5695</b>	<b>1.2286</b>	<b>2.7981</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

Eastern Remediation Area - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6583	51.0382	15.4170	0.2583	7.8316	0.3827	8.2143	2.1603	0.3661	2.5264		29,542.4886	29,542.4886	3.1171	4.7433	31,033.9302
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.0957	3.0100e-003	0.0988	0.0278	2.8800e-003	0.0307		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.7272</b>	<b>51.6296</b>	<b>16.2185</b>	<b>0.2629</b>	<b>8.1334</b>	<b>0.3868</b>	<b>8.5202</b>	<b>2.2431</b>	<b>0.3700</b>	<b>2.6131</b>		<b>30,041.9244</b>	<b>30,041.9244</b>	<b>3.1399</b>	<b>4.7920</b>	<b>31,548.4388</b>



Eastern Remediation Area - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Eastern Remediation Area  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	167.20	Acre	167.20	7,283,232.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on total overall duration of 1 month.

Grading -

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	310.00	17.00
tblConstructionPhase	NumDays	120.00	6.00
tblConstructionPhase	PhaseEndDate	3/1/2027	10/31/2024
tblConstructionPhase	PhaseEndDate	12/22/2025	10/8/2024
tblConstructionPhase	PhaseStartDate	12/23/2025	10/9/2024
tblConstructionPhase	PhaseStartDate	7/8/2025	10/1/2024
tblGrading	MaterialExported	0.00	17,498.00

Eastern Remediation Area - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.9341	86.0448	43.9564	0.3250	20.0628	1.7225	21.2992	10.2147	1.5988	11.3524	0.0000	36,050.600 3	36,050.600 3	5.0826	4.7937	37,606.189 4
Maximum	3.9341	86.0448	43.9564	0.3250	20.0628	1.7225	21.2992	10.2147	1.5988	11.3524	0.0000	36,050.600 3	36,050.600 3	5.0826	4.7937	37,606.189 4

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.9341	86.0448	43.9564	0.3250	12.1177	1.7225	13.8402	4.4240	1.5988	5.5617	0.0000	36,050.600 2	36,050.600 2	5.0826	4.7937	37,606.189 4
Maximum	3.9341	86.0448	43.9564	0.3250	12.1177	1.7225	13.8402	4.4240	1.5988	5.5617	0.0000	36,050.600 2	36,050.600 2	5.0826	4.7937	37,606.189 4

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.60	0.00	35.02	56.69	0.00	51.01	0.00	0.00	0.00	0.00	0.00	0.00

Eastern Remediation Area - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	10/8/2024	5	6	
2	Grading	Grading	10/9/2024	10/31/2024	5	17	

Acres of Grading (Site Preparation Phase): 9

Acres of Grading (Grading Phase): 51

Acres of Paving: 167.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	16.00	2,187.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	32.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area

Eastern Remediation Area - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0307	1.1681	0.4761	5.6600e-003	0.2046	6.0600e-003	0.2107	0.0589	5.7900e-003	0.0647		622.9738	622.9738	0.0379	0.0898	650.6911
Worker	0.0523	0.0320	0.4791	1.5700e-003	0.2012	9.8000e-004	0.2022	0.0534	9.0000e-004	0.0543		161.4808	161.4808	3.5100e-003	3.6900e-003	162.6674
<b>Total</b>	<b>0.0830</b>	<b>1.2002</b>	<b>0.9552</b>	<b>7.2300e-003</b>	<b>0.4058</b>	<b>7.0400e-003</b>	<b>0.4129</b>	<b>0.1123</b>	<b>6.6900e-003</b>	<b>0.1189</b>		<b>784.4546</b>	<b>784.4546</b>	<b>0.0414</b>	<b>0.0935</b>	<b>813.3585</b>

**Mitigated Construction On-Site**

Eastern Remediation Area - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>8.4034</b>	<b>1.2294</b>	<b>9.6327</b>	<b>4.3188</b>	<b>1.1310</b>	<b>5.4498</b>	<b>0.0000</b>	<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0307	1.1681	0.4761	5.6600e-003	0.1915	6.0600e-003	0.1975	0.0557	5.7900e-003	0.0615		622.9738	622.9738	0.0379	0.0898	650.6911
Worker	0.0523	0.0320	0.4791	1.5700e-003	0.1855	9.8000e-004	0.1864	0.0495	9.0000e-004	0.0504		161.4808	161.4808	3.5100e-003	3.6900e-003	162.6674
<b>Total</b>	<b>0.0830</b>	<b>1.2002</b>	<b>0.9552</b>	<b>7.2300e-003</b>	<b>0.3769</b>	<b>7.0400e-003</b>	<b>0.3840</b>	<b>0.1052</b>	<b>6.6900e-003</b>	<b>0.1119</b>		<b>784.4546</b>	<b>784.4546</b>	<b>0.0414</b>	<b>0.0935</b>	<b>813.3585</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

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

Eastern Remediation Area - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000		0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437	6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.3200</b>	<b>1.3354</b>	<b>10.6554</b>	<b>3.6714</b>	<b>1.2286</b>	<b>4.9000</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>	<b>6,058.3405</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6425	53.0482	15.4632	0.2583	8.4056	0.3829	8.7886	2.3012	0.3664	2.6675		29,549.9416	29,549.9416	3.1161	4.7447	31,041.7618
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.7159</b>	<b>53.6678</b>	<b>16.2336</b>	<b>0.2629</b>	<b>8.7315</b>	<b>0.3871</b>	<b>9.1186</b>	<b>2.3899</b>	<b>0.3703</b>	<b>2.7602</b>		<b>30,040.8516</b>	<b>30,040.8516</b>	<b>3.1389</b>	<b>4.7937</b>	<b>31,547.8489</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9843	0.0000	3.9843	1.5695	0.0000	1.5695			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.9843</b>	<b>1.3354</b>	<b>5.3197</b>	<b>1.5695</b>	<b>1.2286</b>	<b>2.7981</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

Eastern Remediation Area - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6425	53.0482	15.4632	0.2583	7.8316	0.3829	8.2145	2.1603	0.3664	2.5266		29,549.9416	29,549.9416	3.1161	4.7447	31,041.7618
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.7159</b>	<b>53.6678</b>	<b>16.2336</b>	<b>0.2629</b>	<b>8.1334</b>	<b>0.3871</b>	<b>8.5205</b>	<b>2.2431</b>	<b>0.3703</b>	<b>2.6134</b>		<b>30,040.8516</b>	<b>30,040.8516</b>	<b>3.1389</b>	<b>4.7937</b>	<b>31,547.8489</b>

Eastern Remediation Area - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Eastern Remediation Area  
 Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	167.20	Acre	167.20	7,283,232.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on total overall duration of 1 month.

Grading -

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	310.00	17.00
tblConstructionPhase	NumDays	120.00	6.00
tblConstructionPhase	PhaseEndDate	3/1/2027	10/31/2024
tblConstructionPhase	PhaseEndDate	12/22/2025	10/8/2024
tblConstructionPhase	PhaseStartDate	12/23/2025	10/9/2024
tblConstructionPhase	PhaseStartDate	7/8/2025	10/1/2024
tblGrading	MaterialExported	0.00	17,498.00



Eastern Remediation Area - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0417	0.8232	0.4313	2.9000e-003	0.2125	0.0184	0.2308	0.0819	0.0170	0.0989	0.0000	290.1485	290.1485	0.0426	0.0372	302.3022
Maximum	0.0417	0.8232	0.4313	2.9000e-003	0.2125	0.0184	0.2308	0.0819	0.0170	0.0989	0.0000	290.1485	290.1485	0.0426	0.0372	302.3022

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0417	0.8232	0.4313	2.9000e-003	0.1283	0.0184	0.1466	0.0454	0.0170	0.0624	0.0000	290.1484	290.1484	0.0426	0.0372	302.3021
Maximum	0.0417	0.8232	0.4313	2.9000e-003	0.1283	0.0184	0.1466	0.0454	0.0170	0.0624	0.0000	290.1484	290.1484	0.0426	0.0372	302.3021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.62	0.00	36.47	44.53	0.00	36.87	0.00	0.00	0.00	0.00	0.00	0.00

Eastern Remediation Area - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	10/8/2024	5	6	
2	Grading	Grading	10/9/2024	10/31/2024	5	17	

Acres of Grading (Site Preparation Phase): 9

Acres of Grading (Grading Phase): 51

Acres of Paving: 167.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	16.00	2,187.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	32.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Eastern Remediation Area - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0590	0.0000	0.0590	0.0303	0.0000	0.0303	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9800e-003	0.0815	0.0550	1.1000e-004		3.6900e-003	3.6900e-003		3.3900e-003	3.3900e-003	0.0000	10.0371	10.0371	3.2500e-003	0.0000	10.1183
<b>Total</b>	<b>7.9800e-003</b>	<b>0.0815</b>	<b>0.0550</b>	<b>1.1000e-004</b>	<b>0.0590</b>	<b>3.6900e-003</b>	<b>0.0627</b>	<b>0.0303</b>	<b>3.3900e-003</b>	<b>0.0337</b>	<b>0.0000</b>	<b>10.0371</b>	<b>10.0371</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>10.1183</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.5100e-003	1.4000e-003	2.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	1.6940	1.6940	1.0000e-004	2.4000e-004	1.7694
Worker	1.4000e-004	1.0000e-004	1.4700e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4454	0.4454	1.0000e-005	1.0000e-005	0.4487
<b>Total</b>	<b>2.3000e-004</b>	<b>3.6100e-003</b>	<b>2.8700e-003</b>	<b>2.0000e-005</b>	<b>1.1900e-003</b>	<b>2.0000e-005</b>	<b>1.2200e-003</b>	<b>3.3000e-004</b>	<b>2.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>2.1394</b>	<b>2.1394</b>	<b>1.1000e-004</b>	<b>2.5000e-004</b>	<b>2.2180</b>

Eastern Remediation Area - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0252	0.0000	0.0252	0.0130	0.0000	0.0130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9800e-003	0.0815	0.0550	1.1000e-004		3.6900e-003	3.6900e-003		3.3900e-003	3.3900e-003	0.0000	10.0371	10.0371	3.2500e-003	0.0000	10.1183
<b>Total</b>	<b>7.9800e-003</b>	<b>0.0815</b>	<b>0.0550</b>	<b>1.1000e-004</b>	<b>0.0252</b>	<b>3.6900e-003</b>	<b>0.0289</b>	<b>0.0130</b>	<b>3.3900e-003</b>	<b>0.0164</b>	<b>0.0000</b>	<b>10.0371</b>	<b>10.0371</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>10.1183</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.5100e-003	1.4000e-003	2.0000e-005	5.7000e-004	2.0000e-005	5.8000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	1.6940	1.6940	1.0000e-004	2.4000e-004	1.7694
Worker	1.4000e-004	1.0000e-004	1.4700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4454	0.4454	1.0000e-005	1.0000e-005	0.4487
<b>Total</b>	<b>2.3000e-004</b>	<b>3.6100e-003</b>	<b>2.8700e-003</b>	<b>2.0000e-005</b>	<b>1.1200e-003</b>	<b>2.0000e-005</b>	<b>1.1300e-003</b>	<b>3.1000e-004</b>	<b>2.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>2.1394</b>	<b>2.1394</b>	<b>1.1000e-004</b>	<b>2.5000e-004</b>	<b>2.2180</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Eastern Remediation Area - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
	Fugitive Dust					0.0792	0.0000	0.0792	0.0312	0.0000	0.0312	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0274	0.2752	0.2356	5.3000e-004		0.0114	0.0114		0.0104	0.0104	0.0000	46.3416	46.3416	0.0150	0.0000	46.7163
<b>Total</b>	<b>0.0274</b>	<b>0.2752</b>	<b>0.2356</b>	<b>5.3000e-004</b>	<b>0.0792</b>	<b>0.0114</b>	<b>0.0906</b>	<b>0.0312</b>	<b>0.0104</b>	<b>0.0417</b>	<b>0.0000</b>	<b>46.3416</b>	<b>46.3416</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7163</b>

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	5.5400e-003	0.4576	0.1312	2.2000e-003	0.0703	3.2500e-003	0.0736	0.0193	3.1100e-003	0.0224	0.0000	227.8283	227.8283	0.0240	0.0366	239.3305
Vendor	1.3000e-004	4.9800e-003	1.9900e-003	2.0000e-005	8.6000e-004	3.0000e-005	8.8000e-004	2.5000e-004	2.0000e-005	2.7000e-004	0.0000	2.3998	2.3998	1.5000e-004	3.5000e-004	2.5066
Worker	4.5000e-004	3.1000e-004	4.6300e-003	1.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.0000e-004	0.0000	1.4023	1.4023	3.0000e-005	3.0000e-005	1.4126
<b>Total</b>	<b>6.1200e-003</b>	<b>0.4628</b>	<b>0.1378</b>	<b>2.2300e-003</b>	<b>0.0731</b>	<b>3.2900e-003</b>	<b>0.0764</b>	<b>0.0200</b>	<b>3.1400e-003</b>	<b>0.0232</b>	<b>0.0000</b>	<b>231.6304</b>	<b>231.6304</b>	<b>0.0242</b>	<b>0.0370</b>	<b>243.2496</b>

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0339	0.0000	0.0339	0.0133	0.0000	0.0133	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0274	0.2752	0.2356	5.3000e-004		0.0114	0.0114		0.0104	0.0104	0.0000	46.3415	46.3415	0.0150	0.0000	46.7162
<b>Total</b>	<b>0.0274</b>	<b>0.2752</b>	<b>0.2356</b>	<b>5.3000e-004</b>	<b>0.0339</b>	<b>0.0114</b>	<b>0.0452</b>	<b>0.0133</b>	<b>0.0104</b>	<b>0.0238</b>	<b>0.0000</b>	<b>46.3415</b>	<b>46.3415</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7162</b>

Eastern Remediation Area - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.5400e-003	0.4576	0.1312	2.2000e-003	0.0656	3.2500e-003	0.0688	0.0181	3.1100e-003	0.0212	0.0000	227.8283	227.8283	0.0240	0.0366	239.3305
Vendor	1.3000e-004	4.9800e-003	1.9900e-003	2.0000e-005	8.0000e-004	3.0000e-005	8.3000e-004	2.3000e-004	2.0000e-005	2.6000e-004	0.0000	2.3998	2.3998	1.5000e-004	3.5000e-004	2.5066
Worker	4.5000e-004	3.1000e-004	4.6300e-003	1.0000e-005	1.7200e-003	1.0000e-005	1.7300e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4023	1.4023	3.0000e-005	3.0000e-005	1.4126
<b>Total</b>	<b>6.1200e-003</b>	<b>0.4628</b>	<b>0.1378</b>	<b>2.2300e-003</b>	<b>0.0681</b>	<b>3.2900e-003</b>	<b>0.0714</b>	<b>0.0188</b>	<b>3.1400e-003</b>	<b>0.0220</b>	<b>0.0000</b>	<b>231.6304</b>	<b>231.6304</b>	<b>0.0242</b>	<b>0.0370</b>	<b>243.2496</b>

**Eastern Remediation Area**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Excavators	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	6	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Excavators	3.06000E-003	2.38500E-002	5.55100E-002	9.00000E-005	1.17000E-003	1.08000E-003	0.00000E+000	7.71516E+000	7.71516E+000	2.50000E-003	0.00000E+000	7.77754E+000
Graders	3.01000E-003	3.53200E-002	1.40800E-002	6.00000E-005	1.15000E-003	1.05000E-003	0.00000E+000	4.93900E+000	4.93900E+000	1.60000E-003	0.00000E+000	4.97893E+000
Rubber Tired Dozers	1.21600E-002	1.24730E-001	5.47900E-002	1.50000E-004	5.62000E-003	5.17000E-003	0.00000E+000	1.31289E+001	1.31289E+001	4.25000E-003	0.00000E+000	1.32351E+001
Scrapers	1.29200E-002	1.30830E-001	1.01440E-001	2.60000E-004	5.17000E-003	4.76000E-003	0.00000E+000	2.26566E+001	2.26566E+001	7.33000E-003	0.00000E+000	2.28398E+001
Tractors/Loaders/Backhoes	4.17000E-003	4.20000E-002	6.48300E-002	9.00000E-005	1.93000E-003	1.77000E-003	0.00000E+000	7.93899E+000	7.93899E+000	2.57000E-003	0.00000E+000	8.00318E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Excavators	3.06000E-003	2.38500E-002	5.55100E-002	9.00000E-005	1.17000E-003	1.08000E-003	0.00000E+000	7.71515E+000	7.71515E+000	2.50000E-003	0.00000E+000	7.77753E+000
Graders	3.01000E-003	3.53200E-002	1.40800E-002	6.00000E-005	1.15000E-003	1.05000E-003	0.00000E+000	4.93899E+000	4.93899E+000	1.60000E-003	0.00000E+000	4.97893E+000

**Eastern Remediation Area**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Rubber Tired Dozers	1.21600E-002	1.24730E-001	5.47900E-002	1.50000E-004	5.62000E-003	5.17000E-003	0.00000E+000	1.31289E+001	1.31289E+001	4.25000E-003	0.00000E+000	1.32351E+001
Scrapers	1.29200E-002	1.30830E-001	1.01440E-001	2.60000E-004	5.17000E-003	4.76000E-003	0.00000E+000	2.26566E+001	2.26566E+001	7.33000E-003	0.00000E+000	2.28398E+001
Tractors/Loaders/Bac khnes	4.17000E-003	4.20000E-002	6.48300E-002	9.00000E-005	1.93000E-003	1.77000E-003	0.00000E+000	7.93898E+000	7.93898E+000	2.57000E-003	0.00000E+000	8.00317E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29615E-006	1.29615E-006	0.00000E+000	0.00000E+000	1.28575E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.02470E-006	2.02470E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.52335E-006	1.52335E-006	0.00000E+000	0.00000E+000	7.55568E-007
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32412E-006	1.32412E-006	0.00000E+000	0.00000E+000	1.31349E-006
Tractors/Loaders/Bac khnes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25961E-006	1.25961E-006	0.00000E+000	0.00000E+000	1.24950E-006

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input			
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Grading	Fugitive Dust	0.08	0.03	0.03	0.01	0.57	0.57
Grading	Roads	0.07	0.02	0.07	0.02	0.07	0.06
Site Preparation	Fugitive Dust	0.06	0.03	0.03	0.01	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.06	0.06



# CalEEMod Output: Phase 1 Construction – Mitigated

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Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 1 Construction - Mitigated Tier 4 Interim  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	34.85	1000sqft	0.80	34,848.00	0
Other Non-Asphalt Surfaces	16.34	Acre	16.34	0.00	0
Parking Lot	11.20	1000sqft	0.26	11,200.00	0
City Park	2.10	Acre	2.10	91,476.00	0
Condo/Townhouse	143.00	Dwelling Unit	13.90	143,000.00	409
Single Family Housing	210.00	Dwelling Unit	35.40	378,000.00	601

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase - Based information provided.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Assumed for modeling purposes.

Off-road Equipment -

Off-road Equipment - Assumed for modeling purposes.

Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.

Grading -

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	75.00	90.00

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	1,110.00	275.00
tblConstructionPhase	NumDays	110.00	91.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	75.00	92.00
tblConstructionPhase	NumDays	40.00	46.00
tblLandUse	LandUseSquareFeet	34,850.00	34,848.00
tblLandUse	LandUseSquareFeet	711,770.40	0.00
tblLandUse	LotAcreage	8.94	13.90
tblLandUse	LotAcreage	68.18	35.40
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.9993	40.2958	35.8053	0.0774	19.9094	1.7480	21.1779	10.1705	1.6083	11.3376	0.0000	7,550.0156	7,550.0156	2.2769	0.0511	7,622.1647
2024	7.1606	70.8628	63.9506	0.1440	19.1483	2.9844	22.1327	7.5087	2.7459	10.2545	0.0000	14,046.2278	14,046.2278	4.2425	0.2170	14,181.7557
2025	38.6699	16.1169	26.3535	0.0653	3.5469	0.6052	4.1521	0.9493	0.5722	1.5215	0.0000	6,583.3201	6,583.3201	0.7372	0.2169	6,666.3852
<b>Maximum</b>	<b>38.6699</b>	<b>70.8628</b>	<b>63.9506</b>	<b>0.1440</b>	<b>19.9094</b>	<b>2.9844</b>	<b>22.1327</b>	<b>10.1705</b>	<b>2.7459</b>	<b>11.3376</b>	<b>0.0000</b>	<b>14,046.2278</b>	<b>14,046.2278</b>	<b>4.2425</b>	<b>0.2170</b>	<b>14,181.7557</b>

**Mitigated Construction**

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.2612	24.1998	45.2550	0.0774	8.6367	0.1221	8.7012	4.3822	0.1219	4.4466	0.0000	7,550.0156	7,550.0156	2.2769	0.0511	7,622.1647
2024	2.3361	44.0552	82.7192	0.1440	8.5551	0.2278	8.7829	3.3116	0.2273	3.5390	0.0000	14,046.2278	14,046.2278	4.2425	0.2170	14,181.7556
2025	37.7196	14.4737	28.1658	0.0653	3.2746	0.1147	3.3894	0.8825	0.1130	0.9955	0.0000	6,583.3201	6,583.3201	0.7372	0.2169	6,666.3852
Maximum	37.7196	44.0552	82.7192	0.1440	8.6367	0.2278	8.7829	4.3822	0.2273	4.4466	0.0000	14,046.2278	14,046.2278	4.2425	0.2170	14,181.7556

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	17.08	35.00	-23.81	0.00	51.96	91.30	56.02	53.96	90.62	61.14	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	10/3/2023	5	46	
2	Rough Grading	Grading	10/4/2023	2/7/2024	5	91	
3	Utility Trenching	Trenching	11/20/2023	3/9/2024	5	80	
4	Fine Grading	Grading	1/6/2024	5/12/2024	5	90	
5	Paving	Paving	3/10/2024	7/16/2024	5	92	
6	Finishing/Landscaping	Trenching	4/12/2024	8/16/2024	5	91	
7	Building Construction	Building Construction	5/13/2024	5/30/2025	5	275	
8	Architectural Coating	Architectural Coating	1/25/2025	5/30/2025	5	90	

Acres of Grading (Site Preparation Phase): 69

Acres of Grading (Grading Phase): 273

Acres of Paving: 17.4

Residential Indoor: 1,055,025; Residential Outdoor: 351,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,763

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	2	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	5.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Fine Grading	Excavators	2	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	236.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Unmitigated Construction Off-Site**

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



Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0800e-003	0.2804	0.1162	1.4400e-003	0.0512	1.4400e-003	0.0526	0.0147	1.3800e-003	0.0161		157.9595	157.9595	9.3900e-003	0.0227	164.9485
Worker	0.0507	0.0325	0.5512	1.7000e-003	0.2012	1.0300e-003	0.2022	0.0534	9.5000e-004	0.0543		173.7559	173.7559	3.7700e-003	3.7100e-003	174.9549
<b>Total</b>	<b>0.0588</b>	<b>0.3128</b>	<b>0.6674</b>	<b>3.1400e-003</b>	<b>0.2524</b>	<b>2.4700e-003</b>	<b>0.2548</b>	<b>0.0681</b>	<b>2.3300e-003</b>	<b>0.0704</b>		<b>331.7154</b>	<b>331.7154</b>	<b>0.0132</b>	<b>0.0264</b>	<b>339.9035</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0381</b>	<b>8.4034</b>	<b>0.0621</b>	<b>8.4655</b>	<b>4.3188</b>	<b>0.0621</b>	<b>4.3809</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0800e-003	0.2804	0.1162	1.4400e-003	0.0479	1.4400e-003	0.0493	0.0139	1.3800e-003	0.0153		157.9595	157.9595	9.3900e-003	0.0227	164.9485
Worker	0.0507	0.0325	0.5512	1.7000e-003	0.1855	1.0300e-003	0.1865	0.0495	9.5000e-004	0.0504		173.7559	173.7559	3.7700e-003	3.7100e-003	174.9549

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Total	0.0588	0.3128	0.6674	3.1400e-003	0.2333	2.4700e-003	0.2358	0.0634	2.3300e-003	0.0657		331.7154	331.7154	0.0132	0.0264	339.9035
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**3.3 Rough Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.4245</b>	<b>10.6281</b>	<b>3.6538</b>	<b>1.3105</b>	<b>4.9643</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0162	0.5607	0.2325	2.8800e-003	0.1023	2.8800e-003	0.1052	0.0294	2.7500e-003	0.0322		315.9190	315.9190	0.0188	0.0453	329.8970
Worker	0.0564	0.0361	0.6124	1.8900e-003	0.2236	1.1400e-003	0.2247	0.0593	1.0500e-003	0.0603		193.0621	193.0621	4.1900e-003	4.1200e-003	194.3944
<b>Total</b>	<b>0.0725</b>	<b>0.5968</b>	<b>0.8449</b>	<b>4.7700e-003</b>	<b>0.3259</b>	<b>4.0200e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8000e-003</b>	<b>0.0925</b>		<b>508.9811</b>	<b>508.9811</b>	<b>0.0230</b>	<b>0.0495</b>	<b>524.2914</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>1.0110</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>3.9345</b>	<b>0.1015</b>	<b>4.0361</b>	<b>1.5620</b>	<b>0.1015</b>	<b>1.6635</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0162	0.5607	0.2325	2.8800e-003	0.0957	2.8800e-003	0.0986	0.0278	2.7500e-003	0.0306		315.9190	315.9190	0.0188	0.0453	329.8970
Worker	0.0564	0.0361	0.6124	1.8900e-003	0.2061	1.1400e-003	0.2072	0.0550	1.0500e-003	0.0561		193.0621	193.0621	4.1900e-003	4.1200e-003	194.3944
<b>Total</b>	<b>0.0725</b>	<b>0.5968</b>	<b>0.8449</b>	<b>4.7700e-003</b>	<b>0.3018</b>	<b>4.0200e-003</b>	<b>0.3058</b>	<b>0.0828</b>	<b>3.8000e-003</b>	<b>0.0866</b>		<b>508.9811</b>	<b>508.9811</b>	<b>0.0230</b>	<b>0.0495</b>	<b>524.2914</b>

**3.3 Rough Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	lb/day										lb/day				
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000		0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>	<b>6,058.3405</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.1023	3.0100e-003	0.1053	0.0294	2.8800e-003	0.0323		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.6600e-003</b>	<b>0.3259</b>	<b>4.1000e-003</b>	<b>0.3300</b>	<b>0.0887</b>	<b>3.8800e-003</b>	<b>0.0926</b>		<b>499.4358</b>	<b>499.4358</b>	<b>0.0228</b>	<b>0.0487</b>	<b>514.5086</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.0110	19.2707	36.7226	0.0621	3.9345	0.1015	4.0361	1.5620	0.1015	1.6635	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.0957	3.0100e-003	0.0988	0.0278	2.8800e-003	0.0307		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.6600e-003</b>	<b>0.3018</b>	<b>4.1000e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8800e-003</b>	<b>0.0867</b>		<b>499.4358</b>	<b>499.4358</b>	<b>0.0228</b>	<b>0.0487</b>	<b>514.5086</b>

3.4 Utility Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5825	5.1690	6.6643	9.8300e-003		0.3191	0.3191		0.2935	0.2935		952.3319	952.3319	0.3080		960.0320
<b>Total</b>	<b>0.5825</b>	<b>5.1690</b>	<b>6.6643</b>	<b>9.8300e-003</b>		<b>0.3191</b>	<b>0.3191</b>		<b>0.2935</b>	<b>0.2935</b>		<b>952.3319</b>	<b>952.3319</b>	<b>0.3080</b>		<b>960.0320</b>

Unmitigated Construction Off-Site

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0225	0.0144	0.2450	7.5000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		77.2248	77.2248	1.6800e-003	1.6500e-003	77.7578
<b>Total</b>	<b>0.0225</b>	<b>0.0144</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.0894</b>	<b>4.6000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.2000e-004</b>	<b>0.0241</b>		<b>77.2248</b>	<b>77.2248</b>	<b>1.6800e-003</b>	<b>1.6500e-003</b>	<b>77.7578</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1551	4.3178	7.4425	9.8300e-003		0.0161	0.0161		0.0161	0.0161	0.0000	952.3319	952.3319	0.3080		960.0320
<b>Total</b>	<b>0.1551</b>	<b>4.3178</b>	<b>7.4425</b>	<b>9.8300e-003</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0161</b>	<b>0.0161</b>	<b>0.0000</b>	<b>952.3319</b>	<b>952.3319</b>	<b>0.3080</b>		<b>960.0320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0225	0.0144	0.2450	7.5000e-004	0.0824	4.6000e-004	0.0829	0.0220	4.2000e-004	0.0224	77.2248	77.2248	1.6800e-003	1.6500e-003	77.7578
<b>Total</b>	<b>0.0225</b>	<b>0.0144</b>	<b>0.2450</b>	<b>7.5000e-004</b>	<b>0.0824</b>	<b>4.6000e-004</b>	<b>0.0829</b>	<b>0.0220</b>	<b>4.2000e-004</b>	<b>0.0224</b>	<b>77.2248</b>	<b>77.2248</b>	<b>1.6800e-003</b>	<b>1.6500e-003</b>	<b>77.7578</b>

**3.4 Utility Trenching - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5653	4.9130	6.6735	9.8400e-003		0.3050	0.3050		0.2806	0.2806		952.4918	952.4918	0.3081		960.1931
<b>Total</b>	<b>0.5653</b>	<b>4.9130</b>	<b>6.6735</b>	<b>9.8400e-003</b>		<b>0.3050</b>	<b>0.3050</b>		<b>0.2806</b>	<b>0.2806</b>		<b>952.4918</b>	<b>952.4918</b>	<b>0.3081</b>		<b>960.1931</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0212	0.0130	0.2283	7.3000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.0000e-004	0.0241		75.3671	75.3671	1.5200e-003	1.5400e-003	75.8643
<b>Total</b>	<b>0.0212</b>	<b>0.0130</b>	<b>0.2283</b>	<b>7.3000e-004</b>	<b>0.0894</b>	<b>4.4000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.0000e-004</b>	<b>0.0241</b>		<b>75.3671</b>	<b>75.3671</b>	<b>1.5200e-003</b>	<b>1.5400e-003</b>	<b>75.8643</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1551	4.3178	7.4425	9.8400e-003		0.0161	0.0161		0.0161	0.0161	0.0000	952.4918	952.4918	0.3081		960.1931
<b>Total</b>	<b>0.1551</b>	<b>4.3178</b>	<b>7.4425</b>	<b>9.8400e-003</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0161</b>	<b>0.0161</b>	<b>0.0000</b>	<b>952.4918</b>	<b>952.4918</b>	<b>0.3081</b>		<b>960.1931</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0212	0.0130	0.2283	7.3000e-004	0.0824	4.4000e-004	0.0829	0.0220	4.0000e-004	0.0224		75.3671	75.3671	1.5200e-003	1.5400e-003	75.8643
<b>Total</b>	<b>0.0212</b>	<b>0.0130</b>	<b>0.2283</b>	<b>7.3000e-004</b>	<b>0.0824</b>	<b>4.4000e-004</b>	<b>0.0829</b>	<b>0.0220</b>	<b>4.0000e-004</b>	<b>0.0224</b>		<b>75.3671</b>	<b>75.3671</b>	<b>1.5200e-003</b>	<b>1.5400e-003</b>	<b>75.8643</b>

**3.5 Fine Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000		0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>	<b>6,058.3405</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.1023	3.0100e-003	0.1053	0.0294	2.8800e-003	0.0323		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.6600e-003</b>	<b>0.3259</b>	<b>4.1000e-003</b>	<b>0.3300</b>	<b>0.0887</b>	<b>3.8800e-003</b>	<b>0.0926</b>		<b>499.4358</b>	<b>499.4358</b>	<b>0.0228</b>	<b>0.0487</b>	<b>514.5086</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.0110	19.2707	36.7226	0.0621	3.9345	0.1015	4.0361	1.5620	0.1015	1.6635	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.0957	3.0100e-003	0.0988	0.0278	2.8800e-003	0.0307		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.0689</b>	<b>0.5915</b>	<b>0.8016</b>	<b>4.6600e-003</b>	<b>0.3018</b>	<b>4.1000e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8800e-003</b>	<b>0.0867</b>		<b>499.4358</b>	<b>499.4358</b>	<b>0.0228</b>	<b>0.0487</b>	<b>514.5086</b>

**3.6 Paving - 2024**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0184</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0397	0.0243	0.4281	1.3700e-003	0.1677	8.2000e-004	0.1685	0.0445	7.5000e-004	0.0452		141.3132	141.3132	2.8500e-003	2.8900e-003	142.2455
<b>Total</b>	<b>0.0397</b>	<b>0.0243</b>	<b>0.4281</b>	<b>1.3700e-003</b>	<b>0.1677</b>	<b>8.2000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.5000e-004</b>	<b>0.0452</b>		<b>141.3132</b>	<b>141.3132</b>	<b>2.8500e-003</b>	<b>2.8900e-003</b>	<b>142.2455</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3643</b>	<b>10.0395</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0397	0.0243	0.4281	1.3700e-003	0.1546	8.2000e-004	0.1554	0.0413	7.5000e-004	0.0420	141.3132	141.3132	2.8500e-003	2.8900e-003	142.2455	
<b>Total</b>	<b>0.0397</b>	<b>0.0243</b>	<b>0.4281</b>	<b>1.3700e-003</b>	<b>0.1546</b>	<b>8.2000e-004</b>	<b>0.1554</b>	<b>0.0413</b>	<b>7.5000e-004</b>	<b>0.0420</b>	<b>141.3132</b>	<b>141.3132</b>	<b>2.8500e-003</b>	<b>2.8900e-003</b>	<b>142.2455</b>	

**3.7 Finishing/Landscaping - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1439	1.4483	2.2356	3.1200e-003		0.0665	0.0665		0.0612	0.0612		301.7667	301.7667	0.0976		304.2067
<b>Total</b>	<b>0.1439</b>	<b>1.4483</b>	<b>2.2356</b>	<b>3.1200e-003</b>		<b>0.0665</b>	<b>0.0665</b>		<b>0.0612</b>	<b>0.0612</b>		<b>301.7667</b>	<b>301.7667</b>	<b>0.0976</b>		<b>304.2067</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9500e-003	4.8600e-003	0.0856	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		28.2626	28.2626	5.7000e-004	5.8000e-004	28.4491

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	7.9500e-003	4.8600e-003	0.0856	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		28.2626	28.2626	5.7000e-004	5.8000e-004	28.4491
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0696	1.3546	2.3421	3.1200e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	301.7667	301.7667	0.0976		304.2067
Total	0.0696	1.3546	2.3421	3.1200e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	301.7667	301.7667	0.0976		304.2067

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9500e-003	4.8600e-003	0.0856	2.7000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		28.2626	28.2626	5.7000e-004	5.8000e-004	28.4491
Total	7.9500e-003	4.8600e-003	0.0856	2.7000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		28.2626	28.2626	5.7000e-004	5.8000e-004	28.4491

**3.8 Building Construction - 2024**

Unmitigated Construction On-Site

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0597	2.0966	0.8654	0.0106	0.3836	0.0113	0.3949	0.1104	0.0108	0.1212		1,166.3182	1,166.3182	0.0712	0.1681	1,218.1799
Worker	0.6251	0.3822	6.7356	0.0216	2.6379	0.0128	2.6508	0.6996	0.0118	0.7114		2,223.3279	2,223.3279	0.0448	0.0455	2,237.9953
<b>Total</b>	<b>0.6848</b>	<b>2.4788</b>	<b>7.6010</b>	<b>0.0322</b>	<b>3.0216</b>	<b>0.0241</b>	<b>3.0457</b>	<b>0.8100</b>	<b>0.0226</b>	<b>0.8326</b>		<b>3,389.6461</b>	<b>3,389.6461</b>	<b>0.1160</b>	<b>0.2135</b>	<b>3,456.1752</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0597	2.0966	0.8654	0.0106	0.3590	0.0113	0.3703	0.1044	0.0108	0.1152		1,166.3182	1,166.3182	0.0712	0.1681	1,218.1799
Worker	0.6251	0.3822	6.7356	0.0216	2.4315	0.0128	2.4444	0.6489	0.0118	0.6607		2,223.3279	2,223.3279	0.0448	0.0455	2,237.9953
Total	0.6848	2.4788	7.6010	0.0322	2.7905	0.0241	2.8147	0.7533	0.0226	0.7759		3,389.6461	3,389.6461	0.1160	0.2135	3,456.1752

3.8 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Unmitigated Construction Off-Site

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0588	2.0863	0.8619	0.0104	0.3836	0.0114	0.3950	0.1104	0.0109	0.1213		1,144.4835	1,144.4835	0.0721	0.1656	1,195.6383
Worker	0.5904	0.3464	6.3360	0.0208	2.6379	0.0123	2.6502	0.6996	0.0113	0.7109		2,168.9602	2,168.9602	0.0407	0.0428	2,182.7223
<b>Total</b>	<b>0.6492</b>	<b>2.4327</b>	<b>7.1978</b>	<b>0.0312</b>	<b>3.0216</b>	<b>0.0237</b>	<b>3.0452</b>	<b>0.8100</b>	<b>0.0222</b>	<b>0.8322</b>		<b>3,313.4438</b>	<b>3,313.4438</b>	<b>0.1128</b>	<b>0.2084</b>	<b>3,378.3606</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0270</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000



Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0588	2.0863	0.8619	0.0104	0.3590	0.0114	0.3704	0.1044	0.0109	0.1152		1,144.4835	1,144.4835	0.0721	0.1656	1,195.6383
Worker	0.5904	0.3464	6.3360	0.0208	2.4315	0.0123	2.4438	0.6489	0.0113	0.6602		2,168.9602	2,168.9602	0.0407	0.0428	2,182.7223
<b>Total</b>	<b>0.6492</b>	<b>2.4327</b>	<b>7.1978</b>	<b>0.0312</b>	<b>2.7905</b>	<b>0.0237</b>	<b>2.8142</b>	<b>0.7533</b>	<b>0.0222</b>	<b>0.7755</b>		<b>3,313.4438</b>	<b>3,313.4438</b>	<b>0.1128</b>	<b>0.2084</b>	<b>3,378.3606</b>

**3.9 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.3648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>36.5357</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1176	0.0690	1.2618	4.1500e-003	0.5254	2.4500e-003	0.5278	0.1393	2.2500e-003	0.1416		431.9540	431.9540	8.1100e-003	8.5200e-003	434.6947
<b>Total</b>	<b>0.1176</b>	<b>0.0690</b>	<b>1.2618</b>	<b>4.1500e-003</b>	<b>0.5254</b>	<b>2.4500e-003</b>	<b>0.5278</b>	<b>0.1393</b>	<b>2.2500e-003</b>	<b>0.1416</b>		<b>431.9540</b>	<b>431.9540</b>	<b>8.1100e-003</b>	<b>8.5200e-003</b>	<b>434.6947</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.3648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>36.4193</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1176	0.0690	1.2618	4.1500e-003	0.4842	2.4500e-003	0.4867	0.1292	2.2500e-003	0.1315		431.9540	431.9540	8.1100e-003	8.5200e-003	434.6947
<b>Total</b>	<b>0.1176</b>	<b>0.0690</b>	<b>1.2618</b>	<b>4.1500e-003</b>	<b>0.4842</b>	<b>2.4500e-003</b>	<b>0.4867</b>	<b>0.1292</b>	<b>2.2500e-003</b>	<b>0.1315</b>		<b>431.9540</b>	<b>431.9540</b>	<b>8.1100e-003</b>	<b>8.5200e-003</b>	<b>434.6947</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 1 Construction - Mitigated Tier 4 Interim  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	34.85	1000sqft	0.80	34,848.00	0
Other Non-Asphalt Surfaces	16.34	Acre	16.34	0.00	0
Parking Lot	11.20	1000sqft	0.26	11,200.00	0
City Park	2.10	Acre	2.10	91,476.00	0
Condo/Townhouse	143.00	Dwelling Unit	13.90	143,000.00	409
Single Family Housing	210.00	Dwelling Unit	35.40	378,000.00	601

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.
- Construction Phase - Based information provided.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.
- Grading -

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	75.00	90.00

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	1,110.00	275.00
tblConstructionPhase	NumDays	110.00	91.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	75.00	92.00
tblConstructionPhase	NumDays	40.00	46.00
tblLandUse	LandUseSquareFeet	34,850.00	34,848.00
tblLandUse	LandUseSquareFeet	711,770.40	0.00
tblLandUse	LotAcreage	8.94	13.90
tblLandUse	LotAcreage	68.18	35.40
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.0061	40.3257	35.7541	0.0773	19.9094	1.7480	21.1779	10.1705	1.6083	11.3376	0.0000	7,537.5571	7,537.5571	2.2770	0.0516	7,609.8491
2024	7.1717	70.9204	63.8728	0.1438	19.1483	2.9844	22.1327	7.5087	2.7459	10.2546	0.0000	14,025.5784	14,025.5784	4.2426	0.2205	14,161.3450
2025	38.7384	16.2509	25.8727	0.0641	3.5469	0.6052	4.1521	0.9493	0.5723	1.5216	0.0000	6,461.1755	6,461.1755	0.7384	0.2205	6,545.3478
Maximum	38.7384	70.9204	63.8728	0.1438	19.9094	2.9844	22.1327	10.1705	2.7459	11.3376	0.0000	14,025.5784	14,025.5784	4.2426	0.2205	14,161.3450

Mitigated Construction

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.2679	24.2297	45.2037	0.0773	8.6367	0.1221	8.7013	4.3822	0.1219	4.4466	0.0000	7,537.5571	7,537.5571	2.2770	0.0516	7,609.8491
2024	2.3472	44.1127	82.6414	0.1438	8.5551	0.2278	8.7829	3.3116	0.2274	3.5390	0.0000	14,025.5783	14,025.5783	4.2426	0.2205	14,161.3450
2025	37.7881	14.6077	27.6851	0.0641	3.2746	0.1147	3.3895	0.8825	0.1131	0.9956	0.0000	6,461.1755	6,461.1755	0.7384	0.2205	6,545.3478
Maximum	37.7881	44.1127	82.6414	0.1438	8.6367	0.2278	8.7829	4.3822	0.2274	4.4466	0.0000	14,025.5783	14,025.5783	4.2426	0.2205	14,161.3450

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	17.05	34.94	-23.93	0.00	51.96	91.29	56.02	53.96	90.62	61.14	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	10/3/2023	5	46	
2	Rough Grading	Grading	10/4/2023	2/7/2024	5	91	
3	Utility Trenching	Trenching	11/20/2023	3/9/2024	5	80	
4	Fine Grading	Grading	1/6/2024	5/12/2024	5	90	
5	Paving	Paving	3/10/2024	7/16/2024	5	92	
6	Finishing/Landscaping	Trenching	4/12/2024	8/16/2024	5	91	
7	Building Construction	Building Construction	5/13/2024	5/30/2025	5	275	
8	Architectural Coating	Architectural Coating	1/25/2025	5/30/2025	5	90	

Acres of Grading (Site Preparation Phase): 69

Acres of Grading (Grading Phase): 273

Acres of Paving: 17.4

Residential Indoor: 1,055,025; Residential Outdoor: 351,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,763

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	2	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	5.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Fine Grading	Excavators	2	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	236.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Unmitigated Construction Off-Site**

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



Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8000e-003	0.2929	0.1200	1.4400e-003	0.0512	1.4500e-003	0.0526	0.0147	1.3800e-003	0.0161		158.1918	158.1918	9.3700e-003	0.0227	165.1956
Worker	0.0554	0.0356	0.5135	1.6200e-003	0.2012	1.0300e-003	0.2022	0.0534	9.5000e-004	0.0543		165.4482	165.4482	3.8600e-003	3.9400e-003	166.7201
<b>Total</b>	<b>0.0632</b>	<b>0.3285</b>	<b>0.6334</b>	<b>3.0600e-003</b>	<b>0.2524</b>	<b>2.4800e-003</b>	<b>0.2548</b>	<b>0.0681</b>	<b>2.3300e-003</b>	<b>0.0704</b>		<b>323.6400</b>	<b>323.6400</b>	<b>0.0132</b>	<b>0.0267</b>	<b>331.9157</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0381</b>	<b>8.4034</b>	<b>0.0621</b>	<b>8.4655</b>	<b>4.3188</b>	<b>0.0621</b>	<b>4.3809</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8000e-003	0.2929	0.1200	1.4400e-003	0.0479	1.4500e-003	0.0493	0.0139	1.3800e-003	0.0153		158.1918	158.1918	9.3700e-003	0.0227	165.1956
Worker	0.0554	0.0356	0.5135	1.6200e-003	0.1855	1.0300e-003	0.1865	0.0495	9.5000e-004	0.0504		165.4482	165.4482	3.8600e-003	3.9400e-003	166.7201

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Total	0.0632	0.3285	0.6334	3.0600e-003	0.2333	2.4800e-003	0.2358	0.0634	2.3300e-003	0.0657		323.6400	323.6400	0.0132	0.0267	331.9157
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**3.3 Rough Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.4245</b>	<b>10.6281</b>	<b>3.6538</b>	<b>1.3105</b>	<b>4.9643</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0156	0.5857	0.2399	2.8800e-003	0.1023	2.9000e-003	0.1052	0.0294	2.7700e-003	0.0322		316.3837	316.3837	0.0187	0.0454	330.3911
Worker	0.0616	0.0396	0.5705	1.8000e-003	0.2236	1.1400e-003	0.2247	0.0593	1.0500e-003	0.0603		183.8313	183.8313	4.2900e-003	4.3800e-003	185.2446
<b>Total</b>	<b>0.0772</b>	<b>0.6253</b>	<b>0.8104</b>	<b>4.6800e-003</b>	<b>0.3259</b>	<b>4.0400e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8200e-003</b>	<b>0.0926</b>		<b>500.2150</b>	<b>500.2150</b>	<b>0.0230</b>	<b>0.0498</b>	<b>515.6357</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>1.0110</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>3.9345</b>	<b>0.1015</b>	<b>4.0361</b>	<b>1.5620</b>	<b>0.1015</b>	<b>1.6635</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0156	0.5857	0.2399	2.8800e-003	0.0957	2.9000e-003	0.0986	0.0278	2.7700e-003	0.0306		316.3837	316.3837	0.0187	0.0454	330.3911
Worker	0.0616	0.0396	0.5705	1.8000e-003	0.2061	1.1400e-003	0.2072	0.0550	1.0500e-003	0.0561		183.8313	183.8313	4.2900e-003	4.3800e-003	185.2446
<b>Total</b>	<b>0.0772</b>	<b>0.6253</b>	<b>0.8104</b>	<b>4.6800e-003</b>	<b>0.3018</b>	<b>4.0400e-003</b>	<b>0.3058</b>	<b>0.0828</b>	<b>3.8200e-003</b>	<b>0.0867</b>		<b>500.2150</b>	<b>500.2150</b>	<b>0.0230</b>	<b>0.0498</b>	<b>515.6357</b>

**3.3 Rough Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	lb/day										lb/day				
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000		0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>	<b>6,058.3405</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.5700e-003</b>	<b>0.3259</b>	<b>4.1200e-003</b>	<b>0.3300</b>	<b>0.0887</b>	<b>3.9000e-003</b>	<b>0.0926</b>		<b>490.9100</b>	<b>490.9100</b>	<b>0.0228</b>	<b>0.0490</b>	<b>506.0871</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.0110	19.2707	36.7226	0.0621	3.9345	0.1015	4.0361	1.5620	0.1015	1.6635	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.5700e-003</b>	<b>0.3018</b>	<b>4.1200e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.9000e-003</b>	<b>0.0867</b>		<b>490.9100</b>	<b>490.9100</b>	<b>0.0228</b>	<b>0.0490</b>	<b>506.0871</b>

3.4 Utility Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5825	5.1690	6.6643	9.8300e-003		0.3191	0.3191		0.2935	0.2935		952.3319	952.3319	0.3080		960.0320
<b>Total</b>	<b>0.5825</b>	<b>5.1690</b>	<b>6.6643</b>	<b>9.8300e-003</b>		<b>0.3191</b>	<b>0.3191</b>		<b>0.2935</b>	<b>0.2935</b>		<b>952.3319</b>	<b>952.3319</b>	<b>0.3080</b>		<b>960.0320</b>

Unmitigated Construction Off-Site

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0246	0.0158	0.2282	7.2000e-004	0.0894	4.6000e-004	0.0899	0.0237	4.2000e-004	0.0241		73.5325	73.5325	1.7200e-003	1.7500e-003	74.0978
<b>Total</b>	<b>0.0246</b>	<b>0.0158</b>	<b>0.2282</b>	<b>7.2000e-004</b>	<b>0.0894</b>	<b>4.6000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.2000e-004</b>	<b>0.0241</b>		<b>73.5325</b>	<b>73.5325</b>	<b>1.7200e-003</b>	<b>1.7500e-003</b>	<b>74.0978</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1551	4.3178	7.4425	9.8300e-003		0.0161	0.0161		0.0161	0.0161	0.0000	952.3319	952.3319	0.3080		960.0320
<b>Total</b>	<b>0.1551</b>	<b>4.3178</b>	<b>7.4425</b>	<b>9.8300e-003</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0161</b>	<b>0.0161</b>	<b>0.0000</b>	<b>952.3319</b>	<b>952.3319</b>	<b>0.3080</b>		<b>960.0320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0246	0.0158	0.2282	7.2000e-004	0.0824	4.6000e-004	0.0829	0.0220	4.2000e-004	0.0224	73.5325	73.5325	1.7200e-003	1.7500e-003	74.0978
<b>Total</b>	<b>0.0246</b>	<b>0.0158</b>	<b>0.2282</b>	<b>7.2000e-004</b>	<b>0.0824</b>	<b>4.6000e-004</b>	<b>0.0829</b>	<b>0.0220</b>	<b>4.2000e-004</b>	<b>0.0224</b>	<b>73.5325</b>	<b>73.5325</b>	<b>1.7200e-003</b>	<b>1.7500e-003</b>	<b>74.0978</b>

**3.4 Utility Trenching - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5653	4.9130	6.6735	9.8400e-003		0.3050	0.3050		0.2806	0.2806		952.4918	952.4918	0.3081		960.1931
<b>Total</b>	<b>0.5653</b>	<b>4.9130</b>	<b>6.6735</b>	<b>9.8400e-003</b>		<b>0.3050</b>	<b>0.3050</b>		<b>0.2806</b>	<b>0.2806</b>		<b>952.4918</b>	<b>952.4918</b>	<b>0.3081</b>		<b>960.1931</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0232	0.0142	0.2129	7.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.0000e-004	0.0241		71.7692	71.7692	1.5600e-003	1.6400e-003	72.2966
<b>Total</b>	<b>0.0232</b>	<b>0.0142</b>	<b>0.2129</b>	<b>7.0000e-004</b>	<b>0.0894</b>	<b>4.4000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.0000e-004</b>	<b>0.0241</b>		<b>71.7692</b>	<b>71.7692</b>	<b>1.5600e-003</b>	<b>1.6400e-003</b>	<b>72.2966</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1551	4.3178	7.4425	9.8400e-003		0.0161	0.0161		0.0161	0.0161	0.0000	952.4918	952.4918	0.3081		960.1931
<b>Total</b>	<b>0.1551</b>	<b>4.3178</b>	<b>7.4425</b>	<b>9.8400e-003</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0161</b>	<b>0.0161</b>	<b>0.0000</b>	<b>952.4918</b>	<b>952.4918</b>	<b>0.3081</b>		<b>960.1931</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0232	0.0142	0.2129	7.0000e-004	0.0824	4.4000e-004	0.0829	0.0220	4.0000e-004	0.0224		71.7692	71.7692	1.5600e-003	1.6400e-003	72.2966
<b>Total</b>	<b>0.0232</b>	<b>0.0142</b>	<b>0.2129</b>	<b>7.0000e-004</b>	<b>0.0824</b>	<b>4.4000e-004</b>	<b>0.0829</b>	<b>0.0220</b>	<b>4.0000e-004</b>	<b>0.0224</b>		<b>71.7692</b>	<b>71.7692</b>	<b>1.5600e-003</b>	<b>1.6400e-003</b>	<b>72.2966</b>

**3.5 Fine Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day									lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000		0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>	<b>6,058.3405</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.5700e-003</b>	<b>0.3259</b>	<b>4.1200e-003</b>	<b>0.3300</b>	<b>0.0887</b>	<b>3.9000e-003</b>	<b>0.0926</b>		<b>490.9100</b>	<b>490.9100</b>	<b>0.0228</b>	<b>0.0490</b>	<b>506.0871</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	1.0110	19.2707	36.7226	0.0621	3.9345	0.1015	4.0361	1.5620	0.1015	1.6635	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.0734</b>	<b>0.6196</b>	<b>0.7704</b>	<b>4.5700e-003</b>	<b>0.3018</b>	<b>4.1200e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.9000e-003</b>	<b>0.0867</b>		<b>490.9100</b>	<b>490.9100</b>	<b>0.0228</b>	<b>0.0490</b>	<b>506.0871</b>

**3.6 Paving - 2024**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0184</b>	<b>9.5246</b>	<b>14.6258</b>	<b>0.0228</b>		<b>0.4685</b>	<b>0.4685</b>		<b>0.4310</b>	<b>0.4310</b>		<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0436	0.0267	0.3993	1.3000e-003	0.1677	8.2000e-004	0.1685	0.0445	7.5000e-004	0.0452		134.5673	134.5673	2.9200e-003	3.0700e-003	135.5562
<b>Total</b>	<b>0.0436</b>	<b>0.0267</b>	<b>0.3993</b>	<b>1.3000e-003</b>	<b>0.1677</b>	<b>8.2000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.5000e-004</b>	<b>0.0452</b>		<b>134.5673</b>	<b>134.5673</b>	<b>2.9200e-003</b>	<b>3.0700e-003</b>	<b>135.5562</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3643</b>	<b>10.0395</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,207.5472</b>	<b>2,207.5472</b>	<b>0.7140</b>		<b>2,225.3963</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0436	0.0267	0.3993	1.3000e-003	0.1546	8.2000e-004	0.1554	0.0413	7.5000e-004	0.0420	134.5673	134.5673	2.9200e-003	3.0700e-003	135.5562	
<b>Total</b>	<b>0.0436</b>	<b>0.0267</b>	<b>0.3993</b>	<b>1.3000e-003</b>	<b>0.1546</b>	<b>8.2000e-004</b>	<b>0.1554</b>	<b>0.0413</b>	<b>7.5000e-004</b>	<b>0.0420</b>	<b>134.5673</b>	<b>134.5673</b>	<b>2.9200e-003</b>	<b>3.0700e-003</b>	<b>135.5562</b>	

**3.7 Finishing/Landscaping - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1439	1.4483	2.2356	3.1200e-003		0.0665	0.0665		0.0612	0.0612		301.7667	301.7667	0.0976		304.2067
<b>Total</b>	<b>0.1439</b>	<b>1.4483</b>	<b>2.2356</b>	<b>3.1200e-003</b>		<b>0.0665</b>	<b>0.0665</b>		<b>0.0612</b>	<b>0.0612</b>		<b>301.7667</b>	<b>301.7667</b>	<b>0.0976</b>		<b>304.2067</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7100e-003	5.3300e-003	0.0799	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		26.9135	26.9135	5.8000e-004	6.1000e-004	27.1112

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	8.7100e-003	5.3300e-003	0.0799	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.5000e-004	9.0400e-003		26.9135	26.9135	5.8000e-004	6.1000e-004	27.1112
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0696	1.3546	2.3421	3.1200e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	301.7667	301.7667	0.0976		304.2067
Total	0.0696	1.3546	2.3421	3.1200e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	301.7667	301.7667	0.0976		304.2067

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7100e-003	5.3300e-003	0.0799	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		26.9135	26.9135	5.8000e-004	6.1000e-004	27.1112
Total	8.7100e-003	5.3300e-003	0.0799	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.5000e-004	8.4000e-003		26.9135	26.9135	5.8000e-004	6.1000e-004	27.1112

**3.8 Building Construction - 2024**

Unmitigated Construction On-Site

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0576	2.1903	0.8926	0.0106	0.3836	0.0114	0.3950	0.1104	0.0109	0.1213		1,168.0759	1,168.0759	0.0710	0.1684	1,220.0457
Worker	0.6855	0.4196	6.2816	0.0205	2.6379	0.0128	2.6508	0.6996	0.0118	0.7114		2,117.1925	2,117.1925	0.0460	0.0484	2,132.7504
<b>Total</b>	<b>0.7431</b>	<b>2.6099</b>	<b>7.1742</b>	<b>0.0311</b>	<b>3.0216</b>	<b>0.0242</b>	<b>3.0458</b>	<b>0.8100</b>	<b>0.0227</b>	<b>0.8327</b>		<b>3,285.2684</b>	<b>3,285.2684</b>	<b>0.1170</b>	<b>0.2168</b>	<b>3,352.7962</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0576	2.1903	0.8926	0.0106	0.3590	0.0114	0.3704	0.1044	0.0109	0.1152		1,168.0759	1,168.0759	0.0710	0.1684	1,220.0457
Worker	0.6855	0.4196	6.2816	0.0205	2.4315	0.0128	2.4444	0.6489	0.0118	0.6607		2,117.1925	2,117.1925	0.0460	0.0484	2,132.7504
<b>Total</b>	<b>0.7431</b>	<b>2.6099</b>	<b>7.1742</b>	<b>0.0311</b>	<b>2.7905</b>	<b>0.0242</b>	<b>2.8147</b>	<b>0.7533</b>	<b>0.0227</b>	<b>0.7760</b>		<b>3,285.2684</b>	<b>3,285.2684</b>	<b>0.1170</b>	<b>0.2168</b>	<b>3,352.7962</b>

**3.8 Building Construction - 2025**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Unmitigated Construction Off-Site

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0567	2.1797	0.8885	0.0104	0.3836	0.0114	0.3951	0.1104	0.0109	0.1213		1,146.2456	1,146.2456	0.0719	0.1660	1,197.5061
Worker	0.6493	0.3802	5.9128	0.0198	2.6379	0.0123	2.6502	0.6996	0.0113	0.7109		2,065.6317	2,065.6317	0.0418	0.0455	2,080.2289
<b>Total</b>	<b>0.7060</b>	<b>2.5599</b>	<b>6.8013</b>	<b>0.0302</b>	<b>3.0216</b>	<b>0.0237</b>	<b>3.0453</b>	<b>0.8100</b>	<b>0.0222</b>	<b>0.8322</b>		<b>3,211.8773</b>	<b>3,211.8773</b>	<b>0.1137</b>	<b>0.2115</b>	<b>3,277.7350</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0270</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000



Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0567	2.1797	0.8885	0.0104	0.3590	0.0114	0.3704	0.1044	0.0109	0.1153		1,146.2456	1,146.2456	0.0719	0.1660	1,197.5061
Worker	0.6493	0.3802	5.9128	0.0198	2.4315	0.0123	2.4438	0.6489	0.0113	0.6602		2,065.6317	2,065.6317	0.0418	0.0455	2,080.2289
<b>Total</b>	<b>0.7060</b>	<b>2.5599</b>	<b>6.8013</b>	<b>0.0302</b>	<b>2.7905</b>	<b>0.0237</b>	<b>2.8142</b>	<b>0.7533</b>	<b>0.0222</b>	<b>0.7755</b>		<b>3,211.8773</b>	<b>3,211.8773</b>	<b>0.1137</b>	<b>0.2115</b>	<b>3,277.7350</b>

**3.9 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.3648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>36.5357</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1293	0.0757	1.1776	3.9500e-003	0.5254	2.4500e-003	0.5278	0.1393	2.2500e-003	0.1416		411.3758	411.3758	8.3300e-003	9.0600e-003	414.2829
<b>Total</b>	<b>0.1293</b>	<b>0.0757</b>	<b>1.1776</b>	<b>3.9500e-003</b>	<b>0.5254</b>	<b>2.4500e-003</b>	<b>0.5278</b>	<b>0.1393</b>	<b>2.2500e-003</b>	<b>0.1416</b>		<b>411.3758</b>	<b>411.3758</b>	<b>8.3300e-003</b>	<b>9.0600e-003</b>	<b>414.2829</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.3648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>36.4193</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1293	0.0757	1.1776	3.9500e-003	0.4842	2.4500e-003	0.4867	0.1292	2.2500e-003	0.1315		411.3758	411.3758	8.3300e-003	9.0600e-003	414.2829
<b>Total</b>	<b>0.1293</b>	<b>0.0757</b>	<b>1.1776</b>	<b>3.9500e-003</b>	<b>0.4842</b>	<b>2.4500e-003</b>	<b>0.4867</b>	<b>0.1292</b>	<b>2.2500e-003</b>	<b>0.1315</b>		<b>411.3758</b>	<b>411.3758</b>	<b>8.3300e-003</b>	<b>9.0600e-003</b>	<b>414.2829</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 1 Construction - Mitigated Tier 4 Interim  
Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	34.85	1000sqft	0.80	34,848.00	0
Other Non-Asphalt Surfaces	16.34	Acre	16.34	0.00	0
Parking Lot	11.20	1000sqft	0.26	11,200.00	0
City Park	2.10	Acre	2.10	91,476.00	0
Condo/Townhouse	143.00	Dwelling Unit	13.90	143,000.00	409
Single Family Housing	210.00	Dwelling Unit	35.40	378,000.00	601

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase - Based information provided.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Assumed for modeling purposes.

Off-road Equipment -

Off-road Equipment - Assumed for modeling purposes.

Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.

Grading -

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	75.00	90.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	1,110.00	275.00
tblConstructionPhase	NumDays	110.00	91.00
tblConstructionPhase	NumDays	110.00	90.00
tblConstructionPhase	NumDays	75.00	92.00
tblConstructionPhase	NumDays	40.00	46.00
tblLandUse	LandUseSquareFeet	34,850.00	34,848.00
tblLandUse	LandUseSquareFeet	711,770.40	0.00
tblLandUse	LotAcreage	8.94	13.90
tblLandUse	LotAcreage	68.18	35.40
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1785	1.8254	1.4473	3.2100e-003	0.8037	0.0790	0.8826	0.3569	0.0727	0.4296	0.0000	283.8504	283.8504	0.0856	2.0100e-003	286.5878
2024	0.4444	3.9173	4.6104	0.0103	0.9213	0.1645	1.0858	0.3011	0.1525	0.4536	0.0000	927.2484	927.2484	0.2009	0.0193	938.0159
2025	1.7584	0.8673	1.3778	3.4200e-003	0.1835	0.0322	0.2157	0.0492	0.0304	0.0796	0.0000	312.4057	312.4057	0.0360	0.0108	316.5108
Maximum	1.7584	3.9173	4.6104	0.0103	0.9213	0.1645	1.0858	0.3569	0.1525	0.4536	0.0000	927.2484	927.2484	0.2009	0.0193	938.0159

**Mitigated Construction**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0542	0.9791	1.8406	3.2100e-003	0.3521	5.0600e-003	0.3572	0.1549	5.0500e-003	0.1600	0.0000	283.8501	283.8501	0.0856	2.0100e-003	286.5875
2024	0.1921	2.9372	5.4308	0.0103	0.5319	0.0177	0.5496	0.1663	0.0176	0.1839	0.0000	927.2476	927.2476	0.2009	0.0193	938.0151
2025	1.7082	0.7794	1.4754	3.4200e-003	0.1695	6.1400e-003	0.1756	0.0458	6.0500e-003	0.0518	0.0000	312.4055	312.4055	0.0360	0.0108	316.5106
Maximum	1.7082	2.9372	5.4308	0.0103	0.5319	0.0177	0.5496	0.1663	0.0176	0.1839	0.0000	927.2476	927.2476	0.2009	0.0193	938.0151

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	17.93	28.96	-17.64	0.00	44.80	89.51	50.44	48.11	88.78	58.90	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2023	10-31-2023	1.0838	0.5123
2	11-1-2023	1-31-2024	1.7263	1.0018
3	2-1-2024	4-30-2024	1.5396	0.9917
4	5-1-2024	7-31-2024	1.0163	0.8422
5	8-1-2024	10-31-2024	0.6053	0.4903
6	11-1-2024	1-31-2025	0.6821	0.5795
7	2-1-2025	4-30-2025	1.7457	1.6633
8	5-1-2025	7-31-2025	0.5870	0.5592
		Highest	1.7457	1.6633

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	10/3/2023	5	46	
2	Rough Grading	Grading	10/4/2023	2/7/2024	5	91	
3	Utility Trenching	Trenching	11/20/2023	3/9/2024	5	80	
4	Fine Grading	Grading	1/6/2024	5/12/2024	5	90	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

5	Paving	Paving	3/10/2024	7/16/2024	5	92
6	Finishing/Landscaping	Trenching	4/12/2024	8/16/2024	5	91
7	Building Construction	Building Construction	5/13/2024	5/30/2025	5	275
8	Architectural Coating	Architectural Coating	1/25/2025	5/30/2025	5	90

**Acres of Grading (Site Preparation Phase): 69**

**Acres of Grading (Grading Phase): 273**

**Acres of Paving: 17.4**

**Residential Indoor: 1,055,025; Residential Outdoor: 351,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,763**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	2	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	5.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Fine Grading	Excavators	2	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	236.00	60.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.4521	0.0000	0.4521	0.2324	0.0000	0.2324	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0612	0.6331	0.4196	8.8000e-004		0.0291	0.0291		0.0268	0.0268	0.0000	76.9366	76.9366	0.0249	0.0000	77.5587



Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Total	0.0612	0.6331	0.4196	8.8000e-004	0.4521	0.0291	0.4812	0.2324	0.0268	0.2592	0.0000	76.9366	76.9366	0.0249	0.0000	77.5587
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	6.7500e-003	2.7100e-003	3.0000e-005	1.1600e-003	3.0000e-005	1.1900e-003	3.3000e-004	3.0000e-005	3.7000e-004	0.0000	3.2979	3.2979	2.0000e-004	4.7000e-004	3.4439
Worker	1.1700e-003	8.4000e-004	0.0121	4.0000e-005	4.5400e-003	2.0000e-005	4.5700e-003	1.2100e-003	2.0000e-005	1.2300e-003	0.0000	3.4989	3.4989	8.0000e-005	8.0000e-005	3.5258
<b>Total</b>	<b>1.3500e-003</b>	<b>7.5900e-003</b>	<b>0.0148</b>	<b>7.0000e-005</b>	<b>5.7000e-003</b>	<b>5.0000e-005</b>	<b>5.7600e-003</b>	<b>1.5400e-003</b>	<b>5.0000e-005</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>6.7968</b>	<b>6.7968</b>	<b>2.8000e-004</b>	<b>5.5000e-004</b>	<b>6.9697</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1933	0.0000	0.1933	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.2797	0.5281	8.8000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	76.9365	76.9365	0.0249	0.0000	77.5586
<b>Total</b>	<b>0.0160</b>	<b>0.2797</b>	<b>0.5281</b>	<b>8.8000e-004</b>	<b>0.1933</b>	<b>1.4300e-003</b>	<b>0.1947</b>	<b>0.0993</b>	<b>1.4300e-003</b>	<b>0.1008</b>	<b>0.0000</b>	<b>76.9365</b>	<b>76.9365</b>	<b>0.0249</b>	<b>0.0000</b>	<b>77.5586</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	6.7500e-003	2.7100e-003	3.0000e-005	1.0900e-003	3.0000e-005	1.1200e-003	3.2000e-004	3.0000e-005	3.5000e-004	0.0000	3.2979	3.2979	2.0000e-004	4.7000e-004	3.4439
Worker	1.1700e-003	8.4000e-004	0.0121	4.0000e-005	4.1900e-003	2.0000e-005	4.2100e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.4989	3.4989	8.0000e-005	8.0000e-005	3.5258
<b>Total</b>	<b>1.3500e-003</b>	<b>7.5900e-003</b>	<b>0.0148</b>	<b>7.0000e-005</b>	<b>5.2800e-003</b>	<b>5.0000e-005</b>	<b>5.3300e-003</b>	<b>1.4400e-003</b>	<b>5.0000e-005</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>6.7968</b>	<b>6.7968</b>	<b>2.8000e-004</b>	<b>5.5000e-004</b>	<b>6.9697</b>

**3.3 Rough Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3345	0.0000	0.3345	0.1199	0.0000	0.1199	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1046	1.0872	0.8836	1.9600e-003		0.0449	0.0449		0.0413	0.0413	0.0000	171.7859	171.7859	0.0556	0.0000	173.1749
<b>Total</b>	<b>0.1046</b>	<b>1.0872</b>	<b>0.8836</b>	<b>1.9600e-003</b>	<b>0.3345</b>	<b>0.0449</b>	<b>0.3793</b>	<b>0.1199</b>	<b>0.0413</b>	<b>0.1612</b>	<b>0.0000</b>	<b>171.7859</b>	<b>171.7859</b>	<b>0.0556</b>	<b>0.0000</b>	<b>173.1749</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0185	7.4300e-003	9.0000e-005	3.1800e-003	9.0000e-005	3.2700e-003	9.2000e-004	9.0000e-005	1.0000e-003	0.0000	9.0334	9.0334	5.4000e-004	1.3000e-003	9.4334
Worker	1.7800e-003	1.2700e-003	0.0184	6.0000e-005	6.9200e-003	4.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.3244	5.3244	1.2000e-004	1.3000e-004	5.3653
<b>Total</b>	<b>2.2800e-003</b>	<b>0.0198</b>	<b>0.0258</b>	<b>1.5000e-004</b>	<b>0.0101</b>	<b>1.3000e-004</b>	<b>0.0102</b>	<b>2.7600e-003</b>	<b>1.2000e-004</b>	<b>2.8700e-003</b>	<b>0.0000</b>	<b>14.3578</b>	<b>14.3578</b>	<b>6.6000e-004</b>	<b>1.4300e-003</b>	<b>14.7987</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1430	0.0000	0.1430	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0319	0.6070	1.1568	1.9600e-003		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	171.7857	171.7857	0.0556	0.0000	173.1747
<b>Total</b>	<b>0.0319</b>	<b>0.6070</b>	<b>1.1568</b>	<b>1.9600e-003</b>	<b>0.1430</b>	<b>3.2000e-003</b>	<b>0.1462</b>	<b>0.0513</b>	<b>3.2000e-003</b>	<b>0.0545</b>	<b>0.0000</b>	<b>171.7857</b>	<b>171.7857</b>	<b>0.0556</b>	<b>0.0000</b>	<b>173.1747</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0185	7.4300e-003	9.0000e-005	2.9700e-003	9.0000e-005	3.0600e-003	8.7000e-004	9.0000e-005	9.5000e-004	0.0000	9.0334	9.0334	5.4000e-004	1.3000e-003	9.4334

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	1.7800e-003	1.2700e-003	0.0184	6.0000e-005	6.3800e-003	4.0000e-005	6.4100e-003	1.7000e-003	3.0000e-005	1.7400e-003	0.0000	5.3244	5.3244	1.2000e-004	1.3000e-004	5.3653
<b>Total</b>	<b>2.2800e-003</b>	<b>0.0198</b>	<b>0.0258</b>	<b>1.5000e-004</b>	<b>9.3500e-003</b>	<b>1.3000e-004</b>	<b>9.4700e-003</b>	<b>2.5700e-003</b>	<b>1.2000e-004</b>	<b>2.6900e-003</b>	<b>0.0000</b>	<b>14.3578</b>	<b>14.3578</b>	<b>6.6000e-004</b>	<b>1.4300e-003</b>	<b>14.7987</b>

**3.3 Rough Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2291	0.0000	0.2291	0.0620	0.0000	0.0620	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0451	0.4533	0.3881	8.7000e-004		0.0187	0.0187		0.0172	0.0172	0.0000	76.3273	76.3273	0.0247	0.0000	76.9445
<b>Total</b>	<b>0.0451</b>	<b>0.4533</b>	<b>0.3881</b>	<b>8.7000e-004</b>	<b>0.2291</b>	<b>0.0187</b>	<b>0.2478</b>	<b>0.0620</b>	<b>0.0172</b>	<b>0.0792</b>	<b>0.0000</b>	<b>76.3273</b>	<b>76.3273</b>	<b>0.0247</b>	<b>0.0000</b>	<b>76.9445</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	8.2000e-003	3.2800e-003	4.0000e-005	1.4100e-003	4.0000e-005	1.4500e-003	4.1000e-004	4.0000e-005	4.5000e-004	0.0000	3.9526	3.9526	2.4000e-004	5.7000e-004	4.1285
Worker	7.4000e-004	5.1000e-004	7.6200e-003	2.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	1.0000e-005	8.3000e-004	0.0000	2.3096	2.3096	5.0000e-005	5.0000e-005	2.3266
<b>Total</b>	<b>9.6000e-004</b>	<b>8.7100e-003</b>	<b>0.0109</b>	<b>6.0000e-005</b>	<b>4.4800e-003</b>	<b>6.0000e-005</b>	<b>4.5400e-003</b>	<b>1.2300e-003</b>	<b>5.0000e-005</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>6.2622</b>	<b>6.2622</b>	<b>2.9000e-004</b>	<b>6.2000e-004</b>	<b>6.4551</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0979	0.0000	0.0979	0.0265	0.0000	0.0265	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0142	0.2698	0.5141	8.7000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	76.3272	76.3272	0.0247	0.0000	76.9444
<b>Total</b>	<b>0.0142</b>	<b>0.2698</b>	<b>0.5141</b>	<b>8.7000e-004</b>	<b>0.0979</b>	<b>1.4200e-003</b>	<b>0.0994</b>	<b>0.0265</b>	<b>1.4200e-003</b>	<b>0.0279</b>	<b>0.0000</b>	<b>76.3272</b>	<b>76.3272</b>	<b>0.0247</b>	<b>0.0000</b>	<b>76.9444</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2000e-004	8.2000e-003	3.2800e-003	4.0000e-005	1.3200e-003	4.0000e-005	1.3600e-003	3.8000e-004	4.0000e-005	4.3000e-004	0.0000	3.9526	3.9526	2.4000e-004	5.7000e-004	4.1285
Worker	7.4000e-004	5.1000e-004	7.6200e-003	2.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3096	2.3096	5.0000e-005	5.0000e-005	2.3266
<b>Total</b>	<b>9.6000e-004</b>	<b>8.7100e-003</b>	<b>0.0109</b>	<b>6.0000e-005</b>	<b>4.1500e-003</b>	<b>6.0000e-005</b>	<b>4.2100e-003</b>	<b>1.1400e-003</b>	<b>5.0000e-005</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>6.2622</b>	<b>6.2622</b>	<b>2.9000e-004</b>	<b>6.2000e-004</b>	<b>6.4551</b>

**3.4 Utility Trenching - 2023**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	tons/yr										MT/yr					
Off-Road	8.7400e-003	0.0775	0.1000	1.5000e-004		4.7900e-003	4.7900e-003		4.4000e-003	4.4000e-003	0.0000	12.9591	12.9591	4.1900e-003	0.0000	13.0639
<b>Total</b>	<b>8.7400e-003</b>	<b>0.0775</b>	<b>0.1000</b>	<b>1.5000e-004</b>		<b>4.7900e-003</b>	<b>4.7900e-003</b>		<b>4.4000e-003</b>	<b>4.4000e-003</b>	<b>0.0000</b>	<b>12.9591</b>	<b>12.9591</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>13.0639</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.4000e-004	3.5000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0142	1.0142	2.0000e-005	2.0000e-005	1.0220
<b>Total</b>	<b>3.4000e-004</b>	<b>2.4000e-004</b>	<b>3.5000e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0142</b>	<b>1.0142</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0220</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.3300e-003	0.0648	0.1116	1.5000e-004		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	12.9591	12.9591	4.1900e-003	0.0000	13.0639
<b>Total</b>	<b>2.3300e-003</b>	<b>0.0648</b>	<b>0.1116</b>	<b>1.5000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>12.9591</b>	<b>12.9591</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>13.0639</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.4000e-004	3.5000e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0142	1.0142	2.0000e-005	2.0000e-005	1.0220
<b>Total</b>	<b>3.4000e-004</b>	<b>2.4000e-004</b>	<b>3.5000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.0142</b>	<b>1.0142</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0220</b>

**3.4 Utility Trenching - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0141	0.1228	0.1668	2.5000e-004		7.6200e-003	7.6200e-003		7.0100e-003	7.0100e-003	0.0000	21.6022	21.6022	6.9900e-003	0.0000	21.7768
<b>Total</b>	<b>0.0141</b>	<b>0.1228</b>	<b>0.1668</b>	<b>2.5000e-004</b>		<b>7.6200e-003</b>	<b>7.6200e-003</b>		<b>7.0100e-003</b>	<b>7.0100e-003</b>	<b>0.0000</b>	<b>21.6022</b>	<b>21.6022</b>	<b>6.9900e-003</b>	<b>0.0000</b>	<b>21.7768</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	3.6000e-004	5.4400e-003	2.0000e-005	2.2000e-003	1.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	5.9000e-004	0.0000	1.6497	1.6497	4.0000e-005	4.0000e-005	1.6618
<b>Total</b>	<b>5.3000e-004</b>	<b>3.6000e-004</b>	<b>5.4400e-003</b>	<b>2.0000e-005</b>	<b>2.2000e-003</b>	<b>1.0000e-005</b>	<b>2.2100e-003</b>	<b>5.8000e-004</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>1.6497</b>	<b>1.6497</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.6618</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8800e-003	0.1080	0.1861	2.5000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	21.6021	21.6021	6.9900e-003	0.0000	21.7768
<b>Total</b>	<b>3.8800e-003</b>	<b>0.1080</b>	<b>0.1861</b>	<b>2.5000e-004</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>21.6021</b>	<b>21.6021</b>	<b>6.9900e-003</b>	<b>0.0000</b>	<b>21.7768</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	3.6000e-004	5.4400e-003	2.0000e-005	2.0200e-003	1.0000e-005	2.0400e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.6497	1.6497	4.0000e-005	4.0000e-005	1.6618



Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Total	5.3000e-004	3.6000e-004	5.4400e-003	2.0000e-005	2.0200e-003	1.0000e-005	2.0400e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.6497	1.6497	4.0000e-005	4.0000e-005	1.6618
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**3.5 Fine Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4142	0.0000	0.4142	0.1644	0.0000	0.1644	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1448	1.4570	1.2475	2.7900e-003		0.0601	0.0601		0.0553	0.0553	0.0000	245.3379	245.3379	0.0794	0.0000	247.3215
<b>Total</b>	<b>0.1448</b>	<b>1.4570</b>	<b>1.2475</b>	<b>2.7900e-003</b>	<b>0.4142</b>	<b>0.0601</b>	<b>0.4743</b>	<b>0.1644</b>	<b>0.0553</b>	<b>0.2197</b>	<b>0.0000</b>	<b>245.3379</b>	<b>245.3379</b>	<b>0.0794</b>	<b>0.0000</b>	<b>247.3215</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0264	0.0105	1.3000e-004	4.5400e-003	1.4000e-004	4.6700e-003	1.3100e-003	1.3000e-004	1.4400e-003	0.0000	12.7049	12.7049	7.7000e-004	1.8300e-003	13.2702
Worker	2.3900e-003	1.6300e-003	0.0245	8.0000e-005	9.8800e-003	5.0000e-005	9.9300e-003	2.6200e-003	5.0000e-005	2.6700e-003	0.0000	7.4237	7.4237	1.6000e-004	1.7000e-004	7.4782
<b>Total</b>	<b>3.0900e-003</b>	<b>0.0280</b>	<b>0.0350</b>	<b>2.1000e-004</b>	<b>0.0144</b>	<b>1.9000e-004</b>	<b>0.0146</b>	<b>3.9300e-003</b>	<b>1.8000e-004</b>	<b>4.1100e-003</b>	<b>0.0000</b>	<b>20.1286</b>	<b>20.1286</b>	<b>9.3000e-004</b>	<b>2.0000e-003</b>	<b>20.7484</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1771	0.0000	0.1771	0.0703	0.0000	0.0703	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0455	0.8672	1.6525	2.7900e-003		4.5700e-003	4.5700e-003		4.5700e-003	4.5700e-003	0.0000	245.3376	245.3376	0.0794	0.0000	247.3212
<b>Total</b>	<b>0.0455</b>	<b>0.8672</b>	<b>1.6525</b>	<b>2.7900e-003</b>	<b>0.1771</b>	<b>4.5700e-003</b>	<b>0.1816</b>	<b>0.0703</b>	<b>4.5700e-003</b>	<b>0.0749</b>	<b>0.0000</b>	<b>245.3376</b>	<b>245.3376</b>	<b>0.0794</b>	<b>0.0000</b>	<b>247.3212</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0264	0.0105	1.3000e-004	4.2500e-003	1.4000e-004	4.3800e-003	1.2400e-003	1.3000e-004	1.3700e-003	0.0000	12.7049	12.7049	7.7000e-004	1.8300e-003	13.2702
Worker	2.3900e-003	1.6300e-003	0.0245	8.0000e-005	9.1100e-003	5.0000e-005	9.1600e-003	2.4300e-003	5.0000e-005	2.4800e-003	0.0000	7.4237	7.4237	1.6000e-004	1.7000e-004	7.4782
<b>Total</b>	<b>3.0900e-003</b>	<b>0.0280</b>	<b>0.0350</b>	<b>2.1000e-004</b>	<b>0.0134</b>	<b>1.9000e-004</b>	<b>0.0135</b>	<b>3.6700e-003</b>	<b>1.8000e-004</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>20.1286</b>	<b>20.1286</b>	<b>9.3000e-004</b>	<b>2.0000e-003</b>	<b>20.7484</b>

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	tons/yr										MT/yr					
	Off-Road	0.0455	0.4381	0.6728	1.0500e-003		0.0216	0.0216		0.0198	0.0198	0.0000	92.1220	92.1220	0.0298	0.0000
Paving	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0469</b>	<b>0.4381</b>	<b>0.6728</b>	<b>1.0500e-003</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0198</b>	<b>0.0198</b>	<b>0.0000</b>	<b>92.1220</b>	<b>92.1220</b>	<b>0.0298</b>	<b>0.0000</b>	<b>92.8669</b>

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.2500e-003	0.0188	6.0000e-005	7.5700e-003	4.0000e-005	7.6100e-003	2.0100e-003	3.0000e-005	2.0500e-003	0.0000	5.6915	5.6915	1.2000e-004	1.3000e-004	5.7333
<b>Total</b>	<b>1.8400e-003</b>	<b>1.2500e-003</b>	<b>0.0188</b>	<b>6.0000e-005</b>	<b>7.5700e-003</b>	<b>4.0000e-005</b>	<b>7.6100e-003</b>	<b>2.0100e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>5.6915</b>	<b>5.6915</b>	<b>1.2000e-004</b>	<b>1.3000e-004</b>	<b>5.7333</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.0154	0.4618	0.7956	1.0500e-003		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	92.1219	92.1219	0.0298	0.0000	92.8668
Paving	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0168	0.4618	0.7956	1.0500e-003		1.7200e-003	1.7200e-003		1.7200e-003	1.7200e-003	0.0000	92.1219	92.1219	0.0298	0.0000	92.8668
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8400e-003	1.2500e-003	0.0188	6.0000e-005	6.9800e-003	4.0000e-005	7.0200e-003	1.8700e-003	3.0000e-005	1.9000e-003	0.0000	5.6915	5.6915	1.2000e-004	1.3000e-004	5.7333
<b>Total</b>	<b>1.8400e-003</b>	<b>1.2500e-003</b>	<b>0.0188</b>	<b>6.0000e-005</b>	<b>6.9800e-003</b>	<b>4.0000e-005</b>	<b>7.0200e-003</b>	<b>1.8700e-003</b>	<b>3.0000e-005</b>	<b>1.9000e-003</b>	<b>0.0000</b>	<b>5.6915</b>	<b>5.6915</b>	<b>1.2000e-004</b>	<b>1.3000e-004</b>	<b>5.7333</b>

3.7 Finishing/Landscaping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5500e-003	0.0659	0.1017	1.4000e-004		3.0200e-003	3.0200e-003		2.7800e-003	2.7800e-003	0.0000	12.4560	12.4560	4.0300e-003	0.0000	12.5567
<b>Total</b>	<b>6.5500e-003</b>	<b>0.0659</b>	<b>0.1017</b>	<b>1.4000e-004</b>		<b>3.0200e-003</b>	<b>3.0200e-003</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>	<b>0.0000</b>	<b>12.4560</b>	<b>12.4560</b>	<b>4.0300e-003</b>	<b>0.0000</b>	<b>12.5567</b>

Unmitigated Construction Off-Site

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.5000e-004	3.7100e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.0000e-004	0.0000	1.1259	1.1259	2.0000e-005	3.0000e-005	1.1342
<b>Total</b>	<b>3.6000e-004</b>	<b>2.5000e-004</b>	<b>3.7100e-003</b>	<b>1.0000e-005</b>	<b>1.5000e-003</b>	<b>1.0000e-005</b>	<b>1.5100e-003</b>	<b>4.0000e-004</b>	<b>1.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.1259</b>	<b>1.1259</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1342</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.1700e-003	0.0616	0.1066	1.4000e-004		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	12.4560	12.4560	4.0300e-003	0.0000	12.5567
<b>Total</b>	<b>3.1700e-003</b>	<b>0.0616</b>	<b>0.1066</b>	<b>1.4000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>12.4560</b>	<b>12.4560</b>	<b>4.0300e-003</b>	<b>0.0000</b>	<b>12.5567</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.5000e-004	3.7100e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1259	1.1259	2.0000e-005	3.0000e-005	1.1342
<b>Total</b>	<b>3.6000e-004</b>	<b>2.5000e-004</b>	<b>3.7100e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.1259</b>	<b>1.1259</b>	<b>2.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1342</b>

**3.8 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1229	1.1226	1.3499	2.2500e-003		0.0512	0.0512		0.0482	0.0482	0.0000	193.5940	193.5940	0.0458	0.0000	194.7385
<b>Total</b>	<b>0.1229</b>	<b>1.1226</b>	<b>1.3499</b>	<b>2.2500e-003</b>		<b>0.0512</b>	<b>0.0512</b>		<b>0.0482</b>	<b>0.0482</b>	<b>0.0000</b>	<b>193.5940</b>	<b>193.5940</b>	<b>0.0458</b>	<b>0.0000</b>	<b>194.7385</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.1834	0.0733	8.9000e-004	0.0316	9.4000e-004	0.0325	9.1000e-003	9.0000e-004	0.0100	0.0000	88.4046	88.4046	5.3900e-003	0.0128	92.3381
Worker	0.0524	0.0357	0.5363	1.7400e-003	0.2163	1.0700e-003	0.2174	0.0575	9.9000e-004	0.0584	0.0000	162.5464	162.5464	3.4800e-003	3.7100e-003	163.7401
<b>Total</b>	<b>0.0573</b>	<b>0.2191</b>	<b>0.6096</b>	<b>2.6300e-003</b>	<b>0.2479</b>	<b>2.0100e-003</b>	<b>0.2499</b>	<b>0.0666</b>	<b>1.8900e-003</b>	<b>0.0685</b>	<b>0.0000</b>	<b>250.9510</b>	<b>250.9510</b>	<b>8.8700e-003</b>	<b>0.0165</b>	<b>256.0782</b>

Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0446	0.9112	1.4925	2.2500e-003		7.0600e-003	7.0600e-003		7.0600e-003	7.0600e-003	0.0000	193.5938	193.5938	0.0458	0.0000	194.7383
<b>Total</b>	<b>0.0446</b>	<b>0.9112</b>	<b>1.4925</b>	<b>2.2500e-003</b>		<b>7.0600e-003</b>	<b>7.0600e-003</b>		<b>7.0600e-003</b>	<b>7.0600e-003</b>	<b>0.0000</b>	<b>193.5938</b>	<b>193.5938</b>	<b>0.0458</b>	<b>0.0000</b>	<b>194.7383</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8900e-003	0.1834	0.0733	8.9000e-004	0.0296	9.4000e-004	0.0305	8.6100e-003	9.0000e-004	9.5100e-003	0.0000	88.4046	88.4046	5.3900e-003	0.0128	92.3381
Worker	0.0524	0.0357	0.5363	1.7400e-003	0.1995	1.0700e-003	0.2005	0.0533	9.9000e-004	0.0543	0.0000	162.5464	162.5464	3.4800e-003	3.7100e-003	163.7401
<b>Total</b>	<b>0.0573</b>	<b>0.2191</b>	<b>0.6096</b>	<b>2.6300e-003</b>	<b>0.2290</b>	<b>2.0100e-003</b>	<b>0.2310</b>	<b>0.0619</b>	<b>1.8900e-003</b>	<b>0.0638</b>	<b>0.0000</b>	<b>250.9510</b>	<b>250.9510</b>	<b>8.8700e-003</b>	<b>0.0165</b>	<b>256.0782</b>

**3.8 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	tons/yr										MT/yr					
Off-Road	0.0738	0.6734	0.8686	1.4600e-003		0.0285	0.0285		0.0268	0.0268	0.0000	125.2365	125.2365	0.0294	0.0000	125.9725
<b>Total</b>	<b>0.0738</b>	<b>0.6734</b>	<b>0.8686</b>	<b>1.4600e-003</b>		<b>0.0285</b>	<b>0.0285</b>		<b>0.0268</b>	<b>0.0268</b>	<b>0.0000</b>	<b>125.2365</b>	<b>125.2365</b>	<b>0.0294</b>	<b>0.0000</b>	<b>125.9725</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1200e-003	0.1180	0.0472	5.6000e-004	0.0204	6.1000e-004	0.0210	5.8900e-003	5.9000e-004	6.4800e-003	0.0000	56.1023	56.1023	3.5300e-003	8.1200e-003	58.6114
Worker	0.0320	0.0209	0.3264	1.0900e-003	0.1399	6.6000e-004	0.1406	0.0372	6.1000e-004	0.0378	0.0000	102.5569	102.5569	2.0400e-003	2.2600e-003	103.2811
<b>Total</b>	<b>0.0352</b>	<b>0.1390</b>	<b>0.3736</b>	<b>1.6500e-003</b>	<b>0.1603</b>	<b>1.2700e-003</b>	<b>0.1616</b>	<b>0.0430</b>	<b>1.2000e-003</b>	<b>0.0442</b>	<b>0.0000</b>	<b>158.6592</b>	<b>158.6592</b>	<b>5.5700e-003</b>	<b>0.0104</b>	<b>161.8924</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0288	0.5893	0.9652	1.4600e-003		4.5700e-003	4.5700e-003		4.5700e-003	4.5700e-003	0.0000	125.2364	125.2364	0.0294	0.0000	125.9723
<b>Total</b>	<b>0.0288</b>	<b>0.5893</b>	<b>0.9652</b>	<b>1.4600e-003</b>		<b>4.5700e-003</b>	<b>4.5700e-003</b>		<b>4.5700e-003</b>	<b>4.5700e-003</b>	<b>0.0000</b>	<b>125.2364</b>	<b>125.2364</b>	<b>0.0294</b>	<b>0.0000</b>	<b>125.9723</b>



Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1200e-003	0.1180	0.0472	5.6000e-004	0.0191	6.1000e-004	0.0197	5.5700e-003	5.9000e-004	6.1600e-003	0.0000	56.1023	56.1023	3.5300e-003	8.1200e-003	58.6114
Worker	0.0320	0.0209	0.3264	1.0900e-003	0.1290	6.6000e-004	0.1297	0.0345	6.1000e-004	0.0351	0.0000	102.5569	102.5569	2.0400e-003	2.2600e-003	103.2811
<b>Total</b>	<b>0.0352</b>	<b>0.1390</b>	<b>0.3736</b>	<b>1.6500e-003</b>	<b>0.1481</b>	<b>1.2700e-003</b>	<b>0.1494</b>	<b>0.0400</b>	<b>1.2000e-003</b>	<b>0.0412</b>	<b>0.0000</b>	<b>158.6592</b>	<b>158.6592</b>	<b>5.5700e-003</b>	<b>0.0104</b>	<b>161.8924</b>

**3.9 Architectural Coating - 2025**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6900e-003	0.0516	0.0814	1.3000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	11.4896	11.4896	6.3000e-004	0.0000	11.5053
<b>Total</b>	<b>1.6441</b>	<b>0.0516</b>	<b>0.0814</b>	<b>1.3000e-004</b>		<b>2.3200e-003</b>	<b>2.3200e-003</b>		<b>2.3200e-003</b>	<b>2.3200e-003</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>11.5053</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 1 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3200e-003	3.4700e-003	0.0542	1.8000e-004	0.0232	1.1000e-004	0.0233	6.1700e-003	1.0000e-004	6.2700e-003	0.0000	17.0204	17.0204	3.4000e-004	3.7000e-004	17.1406
<b>Total</b>	<b>5.3200e-003</b>	<b>3.4700e-003</b>	<b>0.0542</b>	<b>1.8000e-004</b>	<b>0.0232</b>	<b>1.1000e-004</b>	<b>0.0233</b>	<b>6.1700e-003</b>	<b>1.0000e-004</b>	<b>6.2700e-003</b>	<b>0.0000</b>	<b>17.0204</b>	<b>17.0204</b>	<b>3.4000e-004</b>	<b>3.7000e-004</b>	<b>17.1406</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Archit. Coating	1.6364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4500e-003	0.0477	0.0825	1.3000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	11.4896	11.4896	6.3000e-004	0.0000	11.5053
<b>Total</b>	<b>1.6389</b>	<b>0.0477</b>	<b>0.0825</b>	<b>1.3000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>		<b>1.8000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>11.4896</b>	<b>11.4896</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>11.5053</b>

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3200e-003	3.4700e-003	0.0542	1.8000e-004	0.0214	1.1000e-004	0.0215	5.7200e-003	1.0000e-004	5.8200e-003	0.0000	17.0204	17.0204	3.4000e-004	3.7000e-004	17.1406
<b>Total</b>	<b>5.3200e-003</b>	<b>3.4700e-003</b>	<b>0.0542</b>	<b>1.8000e-004</b>	<b>0.0214</b>	<b>1.1000e-004</b>	<b>0.0215</b>	<b>5.7200e-003</b>	<b>1.0000e-004</b>	<b>5.8200e-003</b>	<b>0.0000</b>	<b>17.0204</b>	<b>17.0204</b>	<b>3.4000e-004</b>	<b>3.7000e-004</b>	<b>17.1406</b>

**Phase 1 Construction - Mitigated Tier 4 Interim**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.07	-0.01	0.00	0.88	0.88	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.43	0.14	-0.07	0.00	0.82	0.81	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading	0.67	0.40	-0.32	0.00	0.92	0.91	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	0.49	0.06	-0.05	0.00	0.92	0.91	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.62	-0.05	-0.18	0.00	0.92	0.91	0.00	0.00	0.00	0.00	0.00	0.00
Rough Grading	0.68	0.42	-0.31	0.00	0.92	0.92	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.72	0.55	-0.25	0.00	0.95	0.94	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	0.70	0.14	-0.11	0.00	0.95	0.94	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 4 Interim	1	1	No Change	0.00
Cranes	Diesel	Tier 4 Interim	1	1	No Change	0.00
Excavators	Diesel	Tier 4 Interim	6	6	No Change	0.00
Forklifts	Diesel	Tier 4 Interim	3	3	No Change	0.00
Generator Sets	Diesel	Tier 4 Interim	1	1	No Change	0.00
Graders	Diesel	Tier 4 Interim	2	2	No Change	0.00
Pavers	Diesel	Tier 4 Interim	2	2	No Change	0.00
Paving Equipment	Diesel	Tier 4 Interim	2	2	No Change	0.00
Rollers	Diesel	Tier 4 Interim	2	2	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Interim	5	5	No Change	0.00
Scrapers	Diesel	Tier 4 Interim	4	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	12	12	No Change	0.00
Trenchers	Diesel	Tier 4 Interim	1	1	No Change	0.00

**Phase 1 Construction - Mitigated Tier 4 Interim**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Welders	Diesel	Tier 4 Interim	1	No Change	0.00
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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	7.69000E-003	5.15500E-002	8.14100E-002	1.30000E-004	2.32000E-003	2.32000E-003	0.00000E+000	1.14896E+001	1.14896E+001	6.30000E-004	0.00000E+000	1.15053E+001
Cranes	3.90200E-002	4.05720E-001	2.11710E-001	6.90000E-004	1.70200E-002	1.56500E-002	0.00000E+000	6.09922E+001	6.09922E+001	1.97300E-002	0.00000E+000	6.14854E+001
Excavators	4.23300E-002	3.35980E-001	7.53630E-001	1.19000E-003	1.65100E-002	1.51900E-002	0.00000E+000	1.04824E+002	1.04824E+002	3.39000E-002	0.00000E+000	1.05671E+002
Forklifts	3.76700E-002	3.53930E-001	4.69060E-001	6.30000E-004	1.98800E-002	1.82900E-002	0.00000E+000	5.53952E+001	5.53952E+001	1.79200E-002	0.00000E+000	5.58431E+001
Generator Sets	3.81900E-002	3.41820E-001	5.03550E-001	9.00000E-004	1.44000E-002	1.44000E-002	0.00000E+000	7.77160E+001	7.77160E+001	3.04000E-003	0.00000E+000	7.77920E+001
Graders	3.30000E-002	3.91760E-001	1.51050E-001	6.00000E-004	1.27000E-002	1.16800E-002	0.00000E+000	5.25957E+001	5.25957E+001	1.70100E-002	0.00000E+000	5.30210E+001
Pavers	1.68900E-002	1.60250E-001	2.66150E-001	4.30000E-004	7.48000E-003	6.88000E-003	0.00000E+000	3.79883E+001	3.79883E+001	1.22900E-002	0.00000E+000	3.82954E+001
Paving Equipment	1.51600E-002	1.37640E-001	2.36430E-001	3.70000E-004	6.65000E-003	6.12000E-003	0.00000E+000	3.29225E+001	3.29225E+001	1.06500E-002	0.00000E+000	3.31887E+001
Rollers	1.34100E-002	1.40240E-001	1.70210E-001	2.40000E-004	7.42000E-003	6.83000E-003	0.00000E+000	2.12113E+001	2.12113E+001	6.86000E-003	0.00000E+000	2.13828E+001
Rubber Tired Dozers	1.09820E-001	1.13681E+000	4.96920E-001	1.36000E-003	5.12000E-002	4.71100E-002	0.00000E+000	1.19663E+002	1.19663E+002	3.87000E-002	0.00000E+000	1.20630E+002
Scrapers	1.39250E-001	1.42995E+000	1.09074E+000	2.75000E-003	5.63500E-002	5.18500E-002	0.00000E+000	2.41285E+002	2.41285E+002	7.80400E-002	0.00000E+000	2.43236E+002
Tractors/Loaders/B Backhoes	9.72700E-002	9.81510E-001	1.51745E+000	2.12000E-003	4.48500E-002	4.12700E-002	0.00000E+000	1.86012E+002	1.86012E+002	6.01600E-002	0.00000E+000	1.87516E+002
Trenchers	1.37000E-002	1.27480E-001	1.03690E-001	1.40000E-004	8.83000E-003	8.12000E-003	0.00000E+000	1.18723E+001	1.18723E+001	3.84000E-003	0.00000E+000	1.19683E+001
Welders	3.15600E-002	1.87760E-001	2.28110E-001	3.50000E-004	6.17000E-003	6.17000E-003	0.00000E+000	2.58803E+001	2.58803E+001	2.57000E-003	0.00000E+000	2.59446E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	2.45000E-003	4.76900E-002	8.24600E-002	1.30000E-004	1.80000E-004	1.80000E-004	0.00000E+000	1.14896E+001	1.14896E+001	6.30000E-004	0.00000E+000	1.15053E+001
Cranes	1.13700E-002	1.83370E-001	3.69590E-001	6.90000E-004	1.14000E-003	1.14000E-003	0.00000E+000	6.09921E+001	6.09921E+001	1.97300E-002	0.00000E+000	6.14853E+001
Excavators	1.46800E-002	5.25910E-001	9.05060E-001	1.19000E-003	1.96000E-003	1.96000E-003	0.00000E+000	1.04823E+002	1.04823E+002	3.39000E-002	0.00000E+000	1.05671E+002
Forklifts	1.42400E-002	2.77130E-001	4.79150E-001	6.30000E-004	1.04000E-003	1.04000E-003	0.00000E+000	5.53951E+001	5.53951E+001	1.79200E-002	0.00000E+000	5.58430E+001
Generator Sets	1.65800E-002	3.22590E-001	5.57750E-001	9.00000E-004	1.21000E-003	1.21000E-003	0.00000E+000	7.77159E+001	7.77159E+001	3.04000E-003	0.00000E+000	7.77919E+001
Graders	9.79000E-003	1.57870E-001	3.18180E-001	6.00000E-004	9.80000E-004	9.80000E-004	0.00000E+000	5.25957E+001	5.25957E+001	1.70100E-002	0.00000E+000	5.30209E+001
Pavers	5.32000E-003	1.90480E-001	3.27800E-001	4.30000E-004	7.10000E-004	7.10000E-004	0.00000E+000	3.79882E+001	3.79882E+001	1.22900E-002	0.00000E+000	3.82954E+001
Paving Equipment	4.63000E-003	1.65780E-001	2.85290E-001	3.70000E-004	6.20000E-004	6.20000E-004	0.00000E+000	3.29225E+001	3.29225E+001	1.06500E-002	0.00000E+000	3.31887E+001

**Phase 1 Construction - Mitigated Tier 4 Interim**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Rollers	5.43000E-003	1.05560E-001	1.82510E-001	2.40000E-004	3.90000E-004	3.90000E-004	0.00000E+000	2.12112E+001	2.12112E+001	6.86000E-003	0.00000E+000	2.13827E+001
Rubber Tired Dozers	2.22300E-002	3.58530E-001	7.22630E-001	1.36000E-003	2.22000E-003	2.22000E-003	0.00000E+000	1.19662E+002	1.19662E+002	3.87000E-002	0.00000E+000	1.20630E+002
Scrapers	4.49900E-002	7.25440E-001	1.46212E+000	2.75000E-003	4.50000E-003	4.50000E-003	0.00000E+000	2.41285E+002	2.41285E+002	7.80400E-002	0.00000E+000	2.43236E+002
Tractors/Loaders/Bac khoes	4.73100E-002	9.20370E-001	1.59129E+000	2.12000E-003	3.44000E-003	3.44000E-003	0.00000E+000	1.86012E+002	1.86012E+002	6.01600E-002	0.00000E+000	1.87516E+002
Trenchers	3.03000E-003	5.88800E-002	1.01800E-001	1.40000E-004	2.20000E-004	2.20000E-004	0.00000E+000	1.18723E+001	1.18723E+001	3.84000E-003	0.00000E+000	1.19683E+001
Welders	6.02000E-003	2.28410E-001	2.05820E-001	3.50000E-004	6.43000E-003	6.43000E-003	0.00000E+000	2.58803E+001	2.58803E+001	2.57000E-003	0.00000E+000	2.59446E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	6.81404E-001	7.48788E-002	-1.28977E-002	0.00000E+000	9.22414E-001	9.22414E-001	0.00000E+000	8.70349E-007	8.70349E-007	0.00000E+000	0.00000E+000	8.69164E-007
Cranes	7.08611E-001	5.48038E-001	-7.45737E-001	0.00000E+000	9.33020E-001	9.27157E-001	0.00000E+000	1.14769E-006	1.14769E-006	0.00000E+000	0.00000E+000	1.13848E-006
Excavators	6.53201E-001	-5.65302E-001	-2.00934E-001	0.00000E+000	8.81284E-001	8.70968E-001	0.00000E+000	1.14478E-006	1.14478E-006	0.00000E+000	0.00000E+000	1.13560E-006
Forklifts	6.21980E-001	2.16992E-001	-2.15111E-002	0.00000E+000	9.47686E-001	9.43138E-001	0.00000E+000	1.26365E-006	1.26365E-006	0.00000E+000	0.00000E+000	1.07444E-006
Generator Sets	5.65855E-001	5.62577E-002	-1.07636E-001	0.00000E+000	9.15972E-001	9.15972E-001	0.00000E+000	1.15806E-006	1.15806E-006	0.00000E+000	0.00000E+000	1.15693E-006
Graders	7.03333E-001	5.97024E-001	-1.10645E+000	0.00000E+000	9.22835E-001	9.16096E-001	0.00000E+000	1.14078E-006	1.14078E-006	0.00000E+000	0.00000E+000	1.13163E-006
Pavers	6.85021E-001	-1.88643E-001	-2.31636E-001	0.00000E+000	9.05080E-001	8.96802E-001	0.00000E+000	1.31620E-006	1.31620E-006	0.00000E+000	0.00000E+000	1.04451E-006
Paving Equipment	6.94591E-001	-2.04446E-001	-2.06657E-001	0.00000E+000	9.06767E-001	8.98693E-001	0.00000E+000	1.21497E-006	1.21497E-006	0.00000E+000	0.00000E+000	1.20523E-006
Rollers	5.95078E-001	2.47290E-001	-7.22637E-002	0.00000E+000	9.47439E-001	9.42899E-001	0.00000E+000	9.42896E-007	9.42896E-007	0.00000E+000	0.00000E+000	1.40300E-006
Rubber Tired Dozers	7.97578E-001	6.84617E-001	-4.54218E-001	0.00000E+000	9.56641E-001	9.52876E-001	0.00000E+000	1.16996E-006	1.16996E-006	0.00000E+000	0.00000E+000	1.16057E-006
Scrapers	6.76912E-001	4.92682E-001	-3.40484E-001	0.00000E+000	9.20142E-001	9.13211E-001	0.00000E+000	1.20190E-006	1.20190E-006	0.00000E+000	0.00000E+000	1.19226E-006
Tractors/Loaders/Bac khoes	5.13622E-001	6.22918E-002	-4.86606E-002	0.00000E+000	9.23300E-001	9.16646E-001	0.00000E+000	1.18272E-006	1.18272E-006	0.00000E+000	0.00000E+000	1.17323E-006
Trenchers	7.78832E-001	5.38124E-001	1.82274E-002	0.00000E+000	9.75085E-001	9.72906E-001	0.00000E+000	1.68459E-006	1.68459E-006	0.00000E+000	0.00000E+000	8.35539E-007
Welders	8.09252E-001	-2.16500E-001	9.77160E-002	0.00000E+000	-4.21394E-002	-4.21394E-002	0.00000E+000	1.15918E-006	1.15918E-006	0.00000E+000	0.00000E+000	1.15631E-006

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	

**Phase 1 Construction - Mitigated Tier 4 Interim**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.02	0.01	0.02	0.01	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.41	0.11	0.38	0.10	0.08	0.07
Fine Grading	Fugitive Dust	0.41	0.16	0.18	0.07	0.57	0.57
Fine Grading	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Finishing/Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Rough Grading	Fugitive Dust	0.56	0.18	0.24	0.08	0.57	0.57
Rough Grading	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Site Preparation	Fugitive Dust	0.45	0.23	0.19	0.10	0.57	0.57
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.07	0.06
Utility Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	Roads	0.00	0.00	0.00	0.00	0.08	0.06

# CalEEMod Output: Phase 2 Construction – Mitigated

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Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 2 Construction - Mitigated Tier 4 Interim  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.20	Acre	1.20	52,272.00	0
Other Non-Asphalt Surfaces	5.27	Acre	5.27	0.00	0
Parking Lot	53.60	1000sqft	1.23	53,600.00	0
City Park	13.00	Acre	13.00	566,280.00	0
Condo/Townhouse	507.00	Dwelling Unit	49.00	507,000.00	1450
Single Family Housing	105.00	Dwelling Unit	25.20	189,000.00	300

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8	<b>Operational Year</b>		2027	

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - See assumption in the AQ/GHG Appendix of the DEIR.
- Construction Phase - See
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.
- Grading -

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	60.00	70.00

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	155.00	139.00
tblConstructionPhase	NumDays	155.00	141.00
tblConstructionPhase	NumDays	110.00	143.00
tblConstructionPhase	NumDays	1,550.00	423.00
tblConstructionPhase	NumDays	110.00	142.00
tblLandUse	LandUseSquareFeet	229,561.20	0.00
tblLandUse	LotAcreage	31.69	49.00
tblLandUse	LotAcreage	34.09	25.20
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7165	27.4847	18.9647	0.0411	19.9094	1.2318	21.1412	10.1705	1.1333	11.3039	0.0000	4,013.0949	4,013.0949	1.2057	0.0259	4,050.9479
2025	6.6022	62.4555	63.4979	0.1476	19.9094	2.5862	21.7345	10.1705	2.3795	11.1727	0.0000	14,883.3552	14,883.3552	4.3626	0.6132	15,109.7124
2026	4.2974	29.4068	53.2864	0.1428	8.9832	1.0684	10.0516	2.4078	0.9950	3.4028	0.0000	14,671.1867	14,671.1867	1.7370	0.5992	14,893.1632
2027	34.4355	20.6644	40.3177	0.1274	10.3133	0.6507	10.9641	2.7606	0.6149	3.3755	0.0000	13,291.6521	13,291.6521	0.9506	0.6052	13,495.7806
<b>Maximum</b>	<b>34.4355</b>	<b>62.4555</b>	<b>63.4979</b>	<b>0.1476</b>	<b>19.9094</b>	<b>2.5862</b>	<b>21.7345</b>	<b>10.1705</b>	<b>2.3795</b>	<b>11.3039</b>	<b>0.0000</b>	<b>14,883.3552</b>	<b>14,883.3552</b>	<b>4.3626</b>	<b>0.6132</b>	<b>15,109.7124</b>

Mitigated Construction

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.7524	12.4707	23.5891	0.0411	8.6367	0.0646	8.7013	4.3822	0.0644	4.4466	0.0000	4,013.0949	4,013.0949	1.2057	0.0259	4,050.9479
2025	2.9129	45.7499	85.5746	0.1476	8.6367	0.2341	8.7892	4.3822	0.2336	4.4466	0.0000	14,883.3552	14,883.3552	4.3626	0.6132	15,109.7124
2026	2.8199	29.3266	57.9057	0.1428	8.2961	0.1952	8.4914	2.2392	0.1910	2.4302	0.0000	14,671.1867	14,671.1867	1.7370	0.5992	14,893.1632
2027	33.4852	19.0212	42.1301	0.1274	9.5222	0.1602	9.6824	2.5664	0.1557	2.7221	0.0000	13,291.6521	13,291.6521	0.9506	0.6052	13,495.7806
<b>Maximum</b>	<b>33.4852</b>	<b>45.7499</b>	<b>85.5746</b>	<b>0.1476</b>	<b>9.5222</b>	<b>0.2341</b>	<b>9.6824</b>	<b>4.3822</b>	<b>0.2336</b>	<b>4.4466</b>	<b>0.0000</b>	<b>14,883.3552</b>	<b>14,883.3552</b>	<b>4.3626</b>	<b>0.6132</b>	<b>15,109.7124</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>16.82</b>	<b>23.89</b>	<b>-18.82</b>	<b>0.00</b>	<b>40.64</b>	<b>88.19</b>	<b>44.18</b>	<b>46.80</b>	<b>87.41</b>	<b>51.99</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	1/6/2025	5	70	
2	Rough Grading	Grading	1/7/2025	7/20/2025	5	139	
3	Utility Trenching	Trenching	3/21/2025	9/7/2025	5	121	
4	Fine Grading	Grading	6/2/2025	12/15/2025	5	141	
5	Paving	Paving	9/9/2025	3/26/2026	5	143	
6	Finishing/Landscaping	Trenching	10/29/2025	5/13/2026	5	141	
7	Building Construction	Building Construction	12/17/2025	7/31/2027	5	423	
8	Architectural Coating	Architectural Coating	1/14/2027	7/31/2027	5	142	

**Acres of Grading (Site Preparation Phase): 105**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Grading Phase): 417

Acres of Paving: 7.7

Residential Indoor: 1,409,400; Residential Outdoor: 469,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,352

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	2	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Fine Grading	Excavators	2	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	685.00	176.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	137.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Unmitigated Construction Off-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9600e-003	0.2795	0.1154	1.4100e-003	0.0512	1.5100e-003	0.0527	0.0147	1.4400e-003	0.0162		155.5091	155.5091	9.4900e-003	0.0224	162.4240
Worker	0.0477	0.0292	0.5137	1.6400e-003	0.2012	9.8000e-004	0.2022	0.0534	9.0000e-004	0.0543		169.5759	169.5759	3.4200e-003	3.4700e-003	170.6946
<b>Total</b>	<b>0.0556</b>	<b>0.3087</b>	<b>0.6291</b>	<b>3.0500e-003</b>	<b>0.2524</b>	<b>2.4900e-003</b>	<b>0.2548</b>	<b>0.0681</b>	<b>2.3400e-003</b>	<b>0.0704</b>		<b>325.0850</b>	<b>325.0850</b>	<b>0.0129</b>	<b>0.0259</b>	<b>333.1185</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0381</b>	<b>8.4034</b>	<b>0.0621</b>	<b>8.4655</b>	<b>4.3188</b>	<b>0.0621</b>	<b>4.3809</b>	<b>0.0000</b>	<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Mitigated Construction Off-Site**

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

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9600e-003	0.2795	0.1154	1.4100e-003	0.0479	1.5100e-003	0.0494	0.0139	1.4400e-003	0.0154		155.5091	155.5091	9.4900e-003	0.0224	162.4240
Worker	0.0477	0.0292	0.5137	1.6400e-003	0.1855	9.8000e-004	0.1864	0.0495	9.0000e-004	0.0504		169.5759	169.5759	3.4200e-003	3.4700e-003	170.6946
<b>Total</b>	<b>0.0556</b>	<b>0.3087</b>	<b>0.6291</b>	<b>3.0500e-003</b>	<b>0.2333</b>	<b>2.4900e-003</b>	<b>0.2358</b>	<b>0.0634</b>	<b>2.3400e-003</b>	<b>0.0658</b>		<b>325.0850</b>	<b>325.0850</b>	<b>0.0129</b>	<b>0.0259</b>	<b>333.1185</b>

**3.2 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8400e-003	0.2782	0.1149	1.3800e-003	0.0512	1.5100e-003	0.0527	0.0147	1.4500e-003	0.0162		152.5978	152.5978	9.6100e-003	0.0221	159.4184
Worker	0.0450	0.0264	0.4833	1.5900e-003	0.2012	9.4000e-004	0.2021	0.0534	8.6000e-004	0.0542		165.4292	165.4292	3.1100e-003	3.2600e-003	166.4788



Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0529	0.3046	0.5982	2.9700e-003	0.2524	2.4500e-003	0.2548	0.0681	2.3100e-003	0.0704		318.0270	318.0270	0.0127	0.0253	325.8973
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0381</b>	<b>8.4034</b>	<b>0.0621</b>	<b>8.4655</b>	<b>4.3188</b>	<b>0.0621</b>	<b>4.3809</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8400e-003	0.2782	0.1149	1.3800e-003	0.0479	1.5100e-003	0.0494	0.0139	1.4500e-003	0.0154		152.5978	152.5978	9.6100e-003	0.0221	159.4184
Worker	0.0450	0.0264	0.4833	1.5900e-003	0.1855	9.4000e-004	0.1864	0.0495	8.6000e-004	0.0504		165.4292	165.4292	3.1100e-003	3.2600e-003	166.4788
<b>Total</b>	<b>0.0529</b>	<b>0.3046</b>	<b>0.5982</b>	<b>2.9700e-003</b>	<b>0.2333</b>	<b>2.4500e-003</b>	<b>0.2358</b>	<b>0.0634</b>	<b>2.3100e-003</b>	<b>0.0657</b>		<b>318.0270</b>	<b>318.0270</b>	<b>0.0127</b>	<b>0.0253</b>	<b>325.8973</b>

3.3 Rough Grading - 2025

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0157	0.5563	0.2298	2.7700e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		305.1956	305.1956	0.0192	0.0442	318.8369
Worker	0.0500	0.0294	0.5369	1.7600e-003	0.2236	1.0400e-003	0.2246	0.0593	9.6000e-004	0.0603		183.8102	183.8102	3.4500e-003	3.6200e-003	184.9765
<b>Total</b>	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.5300e-003</b>	<b>0.3259</b>	<b>4.0700e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8600e-003</b>	<b>0.0926</b>		<b>489.0058</b>	<b>489.0058</b>	<b>0.0227</b>	<b>0.0478</b>	<b>503.8134</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000		0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432	6,056.8614
<b>Total</b>	<b>1.0110</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>3.9345</b>	<b>0.1015</b>	<b>4.0361</b>	<b>1.5620</b>	<b>0.1015</b>	<b>1.6635</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>	<b>6,056.8614</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0157	0.5563	0.2298	2.7700e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307		305.1956	305.1956	0.0192	0.0442	318.8369
Worker	0.0500	0.0294	0.5369	1.7600e-003	0.2061	1.0400e-003	0.2071	0.0550	9.6000e-004	0.0560		183.8102	183.8102	3.4500e-003	3.6200e-003	184.9765
<b>Total</b>	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.5300e-003</b>	<b>0.3018</b>	<b>4.0700e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8600e-003</b>	<b>0.0867</b>		<b>489.0058</b>	<b>489.0058</b>	<b>0.0227</b>	<b>0.0478</b>	<b>503.8134</b>

3.4 Utility Trenching - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6482	5.3866	9.0874	0.0137		0.3158	0.3158		0.2906	0.2906		1,328.0209	1,328.0209	0.4295		1,338.7586
<b>Total</b>	<b>0.6482</b>	<b>5.3866</b>	<b>9.0874</b>	<b>0.0137</b>		<b>0.3158</b>	<b>0.3158</b>		<b>0.2906</b>	<b>0.2906</b>		<b>1,328.0209</b>	<b>1,328.0209</b>	<b>0.4295</b>		<b>1,338.7586</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0117	0.2148	7.1000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.8000e-004	0.0241		73.5241	73.5241	1.3800e-003	1.4500e-003	73.9906
<b>Total</b>	<b>0.0200</b>	<b>0.0117</b>	<b>0.2148</b>	<b>7.1000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>73.5241</b>	<b>73.5241</b>	<b>1.3800e-003</b>	<b>1.4500e-003</b>	<b>73.9906</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2027	6.0254	10.3811	0.0137		0.0225	0.0225		0.0225	0.0225	0.0000	1,328.0209	1,328.0209	0.4295		1,338.7586
<b>Total</b>	<b>0.2027</b>	<b>6.0254</b>	<b>10.3811</b>	<b>0.0137</b>		<b>0.0225</b>	<b>0.0225</b>		<b>0.0225</b>	<b>0.0225</b>	<b>0.0000</b>	<b>1,328.0209</b>	<b>1,328.0209</b>	<b>0.4295</b>		<b>1,338.7586</b>

**Mitigated Construction Off-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0117	0.2148	7.1000e-004	0.0824	4.2000e-004	0.0828	0.0220	3.8000e-004	0.0224		73.5241	73.5241	1.3800e-003	1.4500e-003	73.9906
<b>Total</b>	<b>0.0200</b>	<b>0.0117</b>	<b>0.2148</b>	<b>7.1000e-004</b>	<b>0.0824</b>	<b>4.2000e-004</b>	<b>0.0828</b>	<b>0.0220</b>	<b>3.8000e-004</b>	<b>0.0224</b>		<b>73.5241</b>	<b>73.5241</b>	<b>1.3800e-003</b>	<b>1.4500e-003</b>	<b>73.9906</b>

3.5 Fine Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0157	0.5563	0.2298	2.7700e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		305.1956	305.1956	0.0192	0.0442	318.8369
Worker	0.0500	0.0294	0.5369	1.7600e-003	0.2236	1.0400e-003	0.2246	0.0593	9.6000e-004	0.0603		183.8102	183.8102	3.4500e-003	3.6200e-003	184.9765
<b>Total</b>	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.5300e-003</b>	<b>0.3259</b>	<b>4.0700e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8600e-003</b>	<b>0.0926</b>		<b>489.0058</b>	<b>489.0058</b>	<b>0.0227</b>	<b>0.0478</b>	<b>503.8134</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>1.0110</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>3.9345</b>	<b>0.1015</b>	<b>4.0361</b>	<b>1.5620</b>	<b>0.1015</b>	<b>1.6635</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0157	0.5563	0.2298	2.7700e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307		305.1956	305.1956	0.0192	0.0442	318.8369
Worker	0.0500	0.0294	0.5369	1.7600e-003	0.2061	1.0400e-003	0.2071	0.0550	9.6000e-004	0.0560		183.8102	183.8102	3.4500e-003	3.6200e-003	184.9765
<b>Total</b>	<b>0.0657</b>	<b>0.5857</b>	<b>0.7668</b>	<b>4.5300e-003</b>	<b>0.3018</b>	<b>4.0700e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8600e-003</b>	<b>0.0867</b>		<b>489.0058</b>	<b>489.0058</b>	<b>0.0227</b>	<b>0.0478</b>	<b>503.8134</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0375	0.0220	0.4027	1.3200e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		137.8576	137.8576	2.5900e-003	2.7200e-003	138.7324
<b>Total</b>	<b>0.0375</b>	<b>0.0220</b>	<b>0.4027</b>	<b>1.3200e-003</b>	<b>0.1677</b>	<b>7.8000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>137.8576</b>	<b>137.8576</b>	<b>2.5900e-003</b>	<b>2.7200e-003</b>	<b>138.7324</b>

**Mitigated Construction On-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3786</b>	<b>10.0395</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0375	0.0220	0.4027	1.3200e-003	0.1546	7.8000e-004	0.1553	0.0413	7.2000e-004	0.0420		137.8576	137.8576	2.5900e-003	2.7200e-003	138.7324
<b>Total</b>	<b>0.0375</b>	<b>0.0220</b>	<b>0.4027</b>	<b>1.3200e-003</b>	<b>0.1546</b>	<b>7.8000e-004</b>	<b>0.1553</b>	<b>0.0413</b>	<b>7.2000e-004</b>	<b>0.0420</b>		<b>137.8576</b>	<b>137.8576</b>	<b>2.5900e-003</b>	<b>2.7200e-003</b>	<b>138.7324</b>

**3.6 Paving - 2026**

Unmitigated Construction On-Site

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



Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0356	0.0202	0.3814	1.2800e-003	0.1677	7.4000e-004	0.1684	0.0445	6.9000e-004	0.0452		134.7032	134.7032	2.3600e-003	2.5800e-003	135.5305
<b>Total</b>	<b>0.0356</b>	<b>0.0202</b>	<b>0.3814</b>	<b>1.2800e-003</b>	<b>0.1677</b>	<b>7.4000e-004</b>	<b>0.1684</b>	<b>0.0445</b>	<b>6.9000e-004</b>	<b>0.0452</b>		<b>134.7032</b>	<b>134.7032</b>	<b>2.3600e-003</b>	<b>2.5800e-003</b>	<b>135.5305</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3786</b>	<b>10.0395</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0356	0.0202	0.3814	1.2800e-003	0.1546	7.4000e-004	0.1553	0.0413	6.9000e-004	0.0419		134.7032	134.7032	2.3600e-003	2.5800e-003	135.5305
<b>Total</b>	<b>0.0356</b>	<b>0.0202</b>	<b>0.3814</b>	<b>1.2800e-003</b>	<b>0.1546</b>	<b>7.4000e-004</b>	<b>0.1553</b>	<b>0.0413</b>	<b>6.9000e-004</b>	<b>0.0419</b>		<b>134.7032</b>	<b>134.7032</b>	<b>2.3600e-003</b>	<b>2.5800e-003</b>	<b>135.5305</b>

**3.7 Finishing/Landscaping - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981
<b>Total</b>	<b>0.1321</b>	<b>1.3351</b>	<b>2.2297</b>	<b>3.1200e-003</b>		<b>0.0541</b>	<b>0.0541</b>		<b>0.0498</b>	<b>0.0498</b>		<b>302.0559</b>	<b>302.0559</b>	<b>0.0977</b>		<b>304.4981</b>

**Unmitigated Construction Off-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-003	4.4000e-003	0.0805	2.6000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		27.5715	27.5715	5.2000e-004	5.4000e-004	27.7465
<b>Total</b>	<b>7.5000e-003</b>	<b>4.4000e-003</b>	<b>0.0805</b>	<b>2.6000e-004</b>	<b>0.0335</b>	<b>1.6000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.4000e-004</b>	<b>9.0400e-003</b>		<b>27.5715</b>	<b>27.5715</b>	<b>5.2000e-004</b>	<b>5.4000e-004</b>	<b>27.7465</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0696	1.3546	2.3421	3.1200e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	302.0559	302.0559	0.0977		304.4981
<b>Total</b>	<b>0.0696</b>	<b>1.3546</b>	<b>2.3421</b>	<b>3.1200e-003</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>302.0559</b>	<b>302.0559</b>	<b>0.0977</b>		<b>304.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	7.5000e-003	4.4000e-003	0.0805	2.6000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003		27.5715	27.5715	5.2000e-004	5.4000e-004	27.7465
<b>Total</b>	<b>7.5000e-003</b>	<b>4.4000e-003</b>	<b>0.0805</b>	<b>2.6000e-004</b>	<b>0.0309</b>	<b>1.6000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.4000e-004</b>	<b>8.3900e-003</b>		<b>27.5715</b>	<b>27.5715</b>	<b>5.2000e-004</b>	<b>5.4000e-004</b>	<b>27.7465</b>

**3.7 Finishing/Landscaping - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981
<b>Total</b>	<b>0.1321</b>	<b>1.3351</b>	<b>2.2297</b>	<b>3.1200e-003</b>		<b>0.0541</b>	<b>0.0541</b>		<b>0.0498</b>	<b>0.0498</b>		<b>302.0559</b>	<b>302.0559</b>	<b>0.0977</b>		<b>304.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1200e-003	4.0300e-003	0.0763	2.6000e-004	0.0335	1.5000e-004	0.0337	8.8900e-003	1.4000e-004	9.0300e-003		26.9407	26.9407	4.7000e-004	5.2000e-004	27.1061
<b>Total</b>	<b>7.1200e-003</b>	<b>4.0300e-003</b>	<b>0.0763</b>	<b>2.6000e-004</b>	<b>0.0335</b>	<b>1.5000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.4000e-004</b>	<b>9.0300e-003</b>		<b>26.9407</b>	<b>26.9407</b>	<b>4.7000e-004</b>	<b>5.2000e-004</b>	<b>27.1061</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0696	1.3546	2.3421	3.1200e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	302.0559	302.0559	0.0977		304.4981
<b>Total</b>	<b>0.0696</b>	<b>1.3546</b>	<b>2.3421</b>	<b>3.1200e-003</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>302.0559</b>	<b>302.0559</b>	<b>0.0977</b>		<b>304.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1200e-003	4.0300e-003	0.0763	2.6000e-004	0.0309	1.5000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003		26.9407	26.9407	4.7000e-004	5.2000e-004	27.1061
<b>Total</b>	<b>7.1200e-003</b>	<b>4.0300e-003</b>	<b>0.0763</b>	<b>2.6000e-004</b>	<b>0.0309</b>	<b>1.5000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.4000e-004</b>	<b>8.3900e-003</b>		<b>26.9407</b>	<b>26.9407</b>	<b>4.7000e-004</b>	<b>5.2000e-004</b>	<b>27.1061</b>

**3.8 Building Construction - 2025**

**Unmitigated Construction On-Site**

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

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1725	6.1197	2.5282	0.0305	1.1253	0.0333	1.1586	0.3239	0.0319	0.3557		3,357.1517	3,357.1517	0.2115	0.4858	3,507.2057
Worker	1.7136	1.0055	18.3904	0.0604	7.6567	0.0357	7.6924	2.0306	0.0328	2.0634		6,295.4990	6,295.4990	0.1182	0.1241	6,335.4440
<b>Total</b>	<b>1.8861</b>	<b>7.1252</b>	<b>20.9186</b>	<b>0.0909</b>	<b>8.7820</b>	<b>0.0690</b>	<b>8.8510</b>	<b>2.3545</b>	<b>0.0647</b>	<b>2.4192</b>		<b>9,652.6507</b>	<b>9,652.6507</b>	<b>0.3297</b>	<b>0.6099</b>	<b>9,842.6496</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0270</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1725	6.1197	2.5282	0.0305	1.0531	0.0333	1.0864	0.3061	0.0319	0.3380		3,357.1517	3,357.1517	0.2115	0.4858	3,507.2057
Worker	1.7136	1.0055	18.3904	0.0604	7.0576	0.0357	7.0933	1.8835	0.0328	1.9164		6,295.4990	6,295.4990	0.1182	0.1241	6,335.4440
<b>Total</b>	<b>1.8861</b>	<b>7.1252</b>	<b>20.9186</b>	<b>0.0909</b>	<b>8.1107</b>	<b>0.0690</b>	<b>8.1797</b>	<b>2.1897</b>	<b>0.0647</b>	<b>2.2544</b>		<b>9,652.6507</b>	<b>9,652.6507</b>	<b>0.3297</b>	<b>0.6099</b>	<b>9,842.6496</b>

**3.8 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

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

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1700	6.0757	2.5201	0.0298	1.1253	0.0333	1.1586	0.3239	0.0318	0.3557		3,292.8201	3,292.8201	0.2138	0.4784	3,440.7165
Worker	1.6255	0.9205	17.4164	0.0586	7.6567	0.0340	7.6907	2.0306	0.0313	2.0619		6,151.4474	6,151.4474	0.1080	0.1177	6,189.2261
<b>Total</b>	<b>1.7954</b>	<b>6.9962</b>	<b>19.9365</b>	<b>0.0884</b>	<b>8.7820</b>	<b>0.0673</b>	<b>8.8493</b>	<b>2.3545</b>	<b>0.0631</b>	<b>2.4176</b>		<b>9,444.2675</b>	<b>9,444.2675</b>	<b>0.3218</b>	<b>0.5961</b>	<b>9,629.9426</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0270</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1700	6.0757	2.5201	0.0298	1.0531	0.0333	1.0864	0.3061	0.0318	0.3380		3,292.8201	3,292.8201	0.2138	0.4784	3,440.7165
Worker	1.6255	0.9205	17.4164	0.0586	7.0576	0.0340	7.0916	1.8835	0.0313	1.9148		6,151.4474	6,151.4474	0.1080	0.1177	6,189.2261
<b>Total</b>	<b>1.7954</b>	<b>6.9962</b>	<b>19.9365</b>	<b>0.0884</b>	<b>8.1107</b>	<b>0.0673</b>	<b>8.1780</b>	<b>2.1897</b>	<b>0.0631</b>	<b>2.2528</b>		<b>9,444.2675</b>	<b>9,444.2675</b>	<b>0.3218</b>	<b>0.5961</b>	<b>9,629.9426</b>



Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.8 Building Construction - 2027**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1677	6.0304	2.5125	0.0292	1.1253	0.0332	1.1585	0.3239	0.0318	0.3556		3,225.4361	3,225.4361	0.2153	0.4704	3,370.9958
Worker	1.5441	0.8490	16.5928	0.0569	7.6567	0.0320	7.6887	2.0306	0.0295	2.0601		6,023.5780	6,023.5780	0.0992	0.1124	6,059.5457
<b>Total</b>	<b>1.7117</b>	<b>6.8794</b>	<b>19.1054</b>	<b>0.0861</b>	<b>8.7820</b>	<b>0.0653</b>	<b>8.8472</b>	<b>2.3545</b>	<b>0.0613</b>	<b>2.4157</b>		<b>9,249.0141</b>	<b>9,249.0141</b>	<b>0.3145</b>	<b>0.5828</b>	<b>9,430.5415</b>

**Mitigated Construction On-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0270</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1677	6.0304	2.5125	0.0292	1.0530	0.0332	1.0863	0.3061	0.0318	0.3379		3,225.4361	3,225.4361	0.2153	0.4704	3,370.9958
Worker	1.5441	0.8490	16.5928	0.0569	7.0576	0.0320	7.0896	1.8835	0.0295	1.9130		6,023.5780	6,023.5780	0.0992	0.1124	6,059.5457
<b>Total</b>	<b>1.7117</b>	<b>6.8794</b>	<b>19.1054</b>	<b>0.0861</b>	<b>8.1106</b>	<b>0.0653</b>	<b>8.1759</b>	<b>2.1897</b>	<b>0.0613</b>	<b>2.2509</b>		<b>9,249.0141</b>	<b>9,249.0141</b>	<b>0.3145</b>	<b>0.5828</b>	<b>9,430.5415</b>

**3.9 Architectural Coating - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	31.0475	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3088	0.1698	3.3186	0.0114	1.5313	6.4100e-003	1.5378	0.4061	5.9000e-003	0.4120		1,204.7156	1,204.7156	0.0198	0.0225	1,211.9091
<b>Total</b>	<b>0.3088</b>	<b>0.1698</b>	<b>3.3186</b>	<b>0.0114</b>	<b>1.5313</b>	<b>6.4100e-003</b>	<b>1.5378</b>	<b>0.4061</b>	<b>5.9000e-003</b>	<b>0.4120</b>		<b>1,204.7156</b>	<b>1,204.7156</b>	<b>0.0198</b>	<b>0.0225</b>	<b>1,211.9091</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>30.9312</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3088	0.1698	3.3186	0.0114	1.4115	6.4100e-003	1.4179	0.3767	5.9000e-003	0.3826		1,204.7156	1,204.7156	0.0198	0.0225	1,211.9091
<b>Total</b>	<b>0.3088</b>	<b>0.1698</b>	<b>3.3186</b>	<b>0.0114</b>	<b>1.4115</b>	<b>6.4100e-003</b>	<b>1.4179</b>	<b>0.3767</b>	<b>5.9000e-003</b>	<b>0.3826</b>		<b>1,204.7156</b>	<b>1,204.7156</b>	<b>0.0198</b>	<b>0.0225</b>	<b>1,211.9091</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 2 Construction - Mitigated Tier 4 Interim  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.20	Acre	1.20	52,272.00	0
Other Non-Asphalt Surfaces	5.27	Acre	5.27	0.00	0
Parking Lot	53.60	1000sqft	1.23	53,600.00	0
City Park	13.00	Acre	13.00	566,280.00	0
Condo/Townhouse	507.00	Dwelling Unit	49.00	507,000.00	1450
Single Family Housing	105.00	Dwelling Unit	25.20	189,000.00	300

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2027

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - See assumption in the AQ/GHG Appendix of the DEIR.
- Construction Phase - See
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.
- Grading -

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	60.00	70.00

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	155.00	139.00
tblConstructionPhase	NumDays	155.00	141.00
tblConstructionPhase	NumDays	110.00	143.00
tblConstructionPhase	NumDays	1,550.00	423.00
tblConstructionPhase	NumDays	110.00	142.00
tblLandUse	LandUseSquareFeet	229,561.20	0.00
tblLandUse	LotAcreage	31.69	49.00
tblLandUse	LotAcreage	34.09	25.20
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7209	27.5000	18.9337	0.0411	19.9094	1.2318	21.1412	10.1705	1.1334	11.3039	0.0000	4,005.2342	4,005.2342	1.2058	0.0262	4,043.1696
2025	6.6130	62.5122	63.4261	0.1474	19.9094	2.5862	21.7345	10.1705	2.3795	11.1727	0.0000	14,580.7276	14,580.7276	4.3628	0.6224	14,809.8826
2026	4.4632	29.7716	52.1765	0.1400	8.9832	1.0685	10.0517	2.4078	0.9952	3.4030	0.0000	14,376.0458	14,376.0458	1.7396	0.6079	14,600.6773
2027	34.6257	21.0350	39.0773	0.1242	10.3133	0.6509	10.9642	2.7606	0.6151	3.3757	0.0000	12,953.2978	12,953.2978	0.9535	0.6148	13,160.3401
Maximum	34.6257	62.5122	63.4261	0.1474	19.9094	2.5862	21.7345	10.1705	2.3795	11.3039	0.0000	14,580.7276	14,580.7276	4.3628	0.6224	14,809.8826

Mitigated Construction

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.7567	12.4861	23.5581	0.0411	8.6367	0.0646	8.7013	4.3822	0.0644	4.4466	0.0000	4,005.2342	4,005.2342	1.2058	0.0262	4,043.1696
2025	3.0822	45.8066	85.5027	0.1474	8.6367	0.2341	8.7892	4.3822	0.2337	4.4466	0.0000	14,580.7276	14,580.7276	4.3628	0.6224	14,809.8826
2026	2.9858	29.6915	56.7957	0.1400	8.2961	0.1954	8.4915	2.2392	0.1912	2.4304	0.0000	14,376.0458	14,376.0458	1.7396	0.6079	14,600.6773
2027	33.6754	19.3918	40.8897	0.1242	9.5222	0.1604	9.6825	2.5664	0.1559	2.7222	0.0000	12,953.2978	12,953.2978	0.9535	0.6148	13,160.3401
<b>Maximum</b>	<b>33.6754</b>	<b>45.8066</b>	<b>85.5027</b>	<b>0.1474</b>	<b>9.5222</b>	<b>0.2341</b>	<b>9.6825</b>	<b>4.3822</b>	<b>0.2337</b>	<b>4.4466</b>	<b>0.0000</b>	<b>14,580.7276</b>	<b>14,580.7276</b>	<b>4.3628</b>	<b>0.6224</b>	<b>14,809.8826</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>16.36</b>	<b>23.75</b>	<b>-19.08</b>	<b>0.00</b>	<b>40.64</b>	<b>88.18</b>	<b>44.18</b>	<b>46.80</b>	<b>87.41</b>	<b>51.99</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>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	1/6/2025	5	70	
2	Rough Grading	Grading	1/7/2025	7/20/2025	5	139	
3	Utility Trenching	Trenching	3/21/2025	9/7/2025	5	121	
4	Fine Grading	Grading	6/2/2025	12/15/2025	5	141	
5	Paving	Paving	9/9/2025	3/26/2026	5	143	
6	Finishing/Landscaping	Trenching	10/29/2025	5/13/2026	5	141	
7	Building Construction	Building Construction	12/17/2025	7/31/2027	5	423	
8	Architectural Coating	Architectural Coating	1/14/2027	7/31/2027	5	142	

**Acres of Grading (Site Preparation Phase): 105**



Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Grading Phase): 417

Acres of Paving: 7.7

Residential Indoor: 1,409,400; Residential Outdoor: 469,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,352

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	2	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Fine Grading	Excavators	2	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	685.00	176.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	137.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Unmitigated Construction Off-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6800e-003	0.2920	0.1190	1.4200e-003	0.0512	1.5100e-003	0.0527	0.0147	1.4500e-003	0.0162		155.7435	155.7435	9.4700e-003	0.0225	162.6728
Worker	0.0523	0.0320	0.4791	1.5700e-003	0.2012	9.8000e-004	0.2022	0.0534	9.0000e-004	0.0543		161.4808	161.4808	3.5100e-003	3.6900e-003	162.6674
<b>Total</b>	<b>0.0600</b>	<b>0.3240</b>	<b>0.5981</b>	<b>2.9900e-003</b>	<b>0.2524</b>	<b>2.4900e-003</b>	<b>0.2549</b>	<b>0.0681</b>	<b>2.3500e-003</b>	<b>0.0704</b>		<b>317.2242</b>	<b>317.2242</b>	<b>0.0130</b>	<b>0.0262</b>	<b>325.3402</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0381</b>	<b>8.4034</b>	<b>0.0621</b>	<b>8.4655</b>	<b>4.3188</b>	<b>0.0621</b>	<b>4.3809</b>	<b>0.0000</b>	<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Mitigated Construction Off-Site**

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

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6800e-003	0.2920	0.1190	1.4200e-003	0.0479	1.5100e-003	0.0494	0.0139	1.4500e-003	0.0154		155.7435	155.7435	9.4700e-003	0.0225	162.6728
Worker	0.0523	0.0320	0.4791	1.5700e-003	0.1855	9.8000e-004	0.1864	0.0495	9.0000e-004	0.0504		161.4808	161.4808	3.5100e-003	3.6900e-003	162.6674
<b>Total</b>	<b>0.0600</b>	<b>0.3240</b>	<b>0.5981</b>	<b>2.9900e-003</b>	<b>0.2333</b>	<b>2.4900e-003</b>	<b>0.2358</b>	<b>0.0634</b>	<b>2.3500e-003</b>	<b>0.0658</b>		<b>317.2242</b>	<b>317.2242</b>	<b>0.0130</b>	<b>0.0262</b>	<b>325.3402</b>

**3.2 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>2.4727</b>	<b>25.2339</b>	<b>17.9118</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.0868</b>	<b>20.7438</b>	<b>10.1025</b>	<b>0.9999</b>	<b>11.1023</b>		<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5600e-003	0.2906	0.1185	1.3900e-003	0.0512	1.5200e-003	0.0527	0.0147	1.4600e-003	0.0162		152.8327	152.8327	9.5900e-003	0.0221	159.6675
Worker	0.0495	0.0290	0.4510	1.5100e-003	0.2012	9.4000e-004	0.2021	0.0534	8.6000e-004	0.0542		157.5482	157.5482	3.1900e-003	3.4700e-003	158.6615

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.0571	0.3196	0.5695	2.9000e-003	0.2524	2.4600e-003	0.2548	0.0681	2.3200e-003	0.0704		310.3809	310.3809	0.0128	0.0256	318.3290
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0381</b>	<b>8.4034</b>	<b>0.0621</b>	<b>8.4655</b>	<b>4.3188</b>	<b>0.0621</b>	<b>4.3809</b>	<b>0.0000</b>	<b>3,689.1037</b>	<b>3,689.1037</b>	<b>1.1931</b>		<b>3,718.9320</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5600e-003	0.2906	0.1185	1.3900e-003	0.0479	1.5200e-003	0.0494	0.0139	1.4600e-003	0.0154		152.8327	152.8327	9.5900e-003	0.0221	159.6675
Worker	0.0495	0.0290	0.4510	1.5100e-003	0.1855	9.4000e-004	0.1864	0.0495	8.6000e-004	0.0504		157.5482	157.5482	3.1900e-003	3.4700e-003	158.6615
<b>Total</b>	<b>0.0571</b>	<b>0.3196</b>	<b>0.5695</b>	<b>2.9000e-003</b>	<b>0.2333</b>	<b>2.4600e-003</b>	<b>0.2358</b>	<b>0.0634</b>	<b>2.3200e-003</b>	<b>0.0657</b>		<b>310.3809</b>	<b>310.3809</b>	<b>0.0128</b>	<b>0.0256</b>	<b>318.3290</b>

3.3 Rough Grading - 2025

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0151	0.5813	0.2369	2.7700e-003	0.1023	3.0400e-003	0.1054	0.0294	2.9100e-003	0.0324		305.6655	305.6655	0.0192	0.0443	319.3350
Worker	0.0550	0.0322	0.5011	1.6800e-003	0.2236	1.0400e-003	0.2246	0.0593	9.6000e-004	0.0603		175.0535	175.0535	3.5400e-003	3.8500e-003	176.2906
<b>Total</b>	<b>0.0702</b>	<b>0.6135</b>	<b>0.7380</b>	<b>4.4500e-003</b>	<b>0.3259</b>	<b>4.0800e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8700e-003</b>	<b>0.0926</b>		<b>480.7190</b>	<b>480.7190</b>	<b>0.0227</b>	<b>0.0481</b>	<b>495.6256</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>1.0110</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>3.9345</b>	<b>0.1015</b>	<b>4.0361</b>	<b>1.5620</b>	<b>0.1015</b>	<b>1.6635</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0151	0.5813	0.2369	2.7700e-003	0.0957	3.0400e-003	0.0988	0.0278	2.9100e-003	0.0307		305.6655	305.6655	0.0192	0.0443	319.3350
Worker	0.0550	0.0322	0.5011	1.6800e-003	0.2061	1.0400e-003	0.2071	0.0550	9.6000e-004	0.0560		175.0535	175.0535	3.5400e-003	3.8500e-003	176.2906
<b>Total</b>	<b>0.0702</b>	<b>0.6135</b>	<b>0.7380</b>	<b>4.4500e-003</b>	<b>0.3018</b>	<b>4.0800e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8700e-003</b>	<b>0.0867</b>		<b>480.7190</b>	<b>480.7190</b>	<b>0.0227</b>	<b>0.0481</b>	<b>495.6256</b>

3.4 Utility Trenching - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6482	5.3866	9.0874	0.0137		0.3158	0.3158		0.2906	0.2906		1,328.0209	1,328.0209	0.4295		1,338.7586
<b>Total</b>	<b>0.6482</b>	<b>5.3866</b>	<b>9.0874</b>	<b>0.0137</b>		<b>0.3158</b>	<b>0.3158</b>		<b>0.2906</b>	<b>0.2906</b>		<b>1,328.0209</b>	<b>1,328.0209</b>	<b>0.4295</b>		<b>1,338.7586</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0220	0.0129	0.2004	6.7000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.8000e-004	0.0241		70.0214	70.0214	1.4200e-003	1.5400e-003	70.5162
<b>Total</b>	<b>0.0220</b>	<b>0.0129</b>	<b>0.2004</b>	<b>6.7000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>70.0214</b>	<b>70.0214</b>	<b>1.4200e-003</b>	<b>1.5400e-003</b>	<b>70.5162</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2027	6.0254	10.3811	0.0137		0.0225	0.0225		0.0225	0.0225	0.0000	1,328.0209	1,328.0209	0.4295		1,338.7586
<b>Total</b>	<b>0.2027</b>	<b>6.0254</b>	<b>10.3811</b>	<b>0.0137</b>		<b>0.0225</b>	<b>0.0225</b>		<b>0.0225</b>	<b>0.0225</b>	<b>0.0000</b>	<b>1,328.0209</b>	<b>1,328.0209</b>	<b>0.4295</b>		<b>1,338.7586</b>

**Mitigated Construction Off-Site**



Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0220	0.0129	0.2004	6.7000e-004	0.0824	4.2000e-004	0.0828	0.0220	3.8000e-004	0.0224		70.0214	70.0214	1.4200e-003	1.5400e-003	70.5162
<b>Total</b>	<b>0.0220</b>	<b>0.0129</b>	<b>0.2004</b>	<b>6.7000e-004</b>	<b>0.0824</b>	<b>4.2000e-004</b>	<b>0.0828</b>	<b>0.0220</b>	<b>3.8000e-004</b>	<b>0.0224</b>		<b>70.0214</b>	<b>70.0214</b>	<b>1.4200e-003</b>	<b>1.5400e-003</b>	<b>70.5162</b>

3.5 Fine Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>2.9012</b>	<b>27.9429</b>	<b>26.3311</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.1309</b>	<b>10.3345</b>	<b>3.6538</b>	<b>1.0404</b>	<b>4.6942</b>		<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0151	0.5813	0.2369	2.7700e-003	0.1023	3.0400e-003	0.1054	0.0294	2.9100e-003	0.0324		305.6655	305.6655	0.0192	0.0443	319.3350
Worker	0.0550	0.0322	0.5011	1.6800e-003	0.2236	1.0400e-003	0.2246	0.0593	9.6000e-004	0.0603		175.0535	175.0535	3.5400e-003	3.8500e-003	176.2906
<b>Total</b>	<b>0.0702</b>	<b>0.6135</b>	<b>0.7380</b>	<b>4.4500e-003</b>	<b>0.3259</b>	<b>4.0800e-003</b>	<b>0.3299</b>	<b>0.0887</b>	<b>3.8700e-003</b>	<b>0.0926</b>		<b>480.7190</b>	<b>480.7190</b>	<b>0.0227</b>	<b>0.0481</b>	<b>495.6256</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
<b>Total</b>	<b>1.0110</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>3.9345</b>	<b>0.1015</b>	<b>4.0361</b>	<b>1.5620</b>	<b>0.1015</b>	<b>1.6635</b>	<b>0.0000</b>	<b>6,008.2814</b>	<b>6,008.2814</b>	<b>1.9432</b>		<b>6,056.8614</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0151	0.5813	0.2369	2.7700e-003	0.0957	3.0400e-003	0.0988	0.0278	2.9100e-003	0.0307		305.6655	305.6655	0.0192	0.0443	319.3350
Worker	0.0550	0.0322	0.5011	1.6800e-003	0.2061	1.0400e-003	0.2071	0.0550	9.6000e-004	0.0560		175.0535	175.0535	3.5400e-003	3.8500e-003	176.2906
<b>Total</b>	<b>0.0702</b>	<b>0.6135</b>	<b>0.7380</b>	<b>4.4500e-003</b>	<b>0.3018</b>	<b>4.0800e-003</b>	<b>0.3059</b>	<b>0.0828</b>	<b>3.8700e-003</b>	<b>0.0867</b>		<b>480.7190</b>	<b>480.7190</b>	<b>0.0227</b>	<b>0.0481</b>	<b>495.6256</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0242	0.3758	1.2600e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		131.2902	131.2902	2.6600e-003	2.8900e-003	132.2179
<b>Total</b>	<b>0.0413</b>	<b>0.0242</b>	<b>0.3758</b>	<b>1.2600e-003</b>	<b>0.1677</b>	<b>7.8000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>131.2902</b>	<b>131.2902</b>	<b>2.6600e-003</b>	<b>2.8900e-003</b>	<b>132.2179</b>

**Mitigated Construction On-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3786</b>	<b>10.0395</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0242	0.3758	1.2600e-003	0.1546	7.8000e-004	0.1553	0.0413	7.2000e-004	0.0420		131.2902	131.2902	2.6600e-003	2.8900e-003	132.2179
<b>Total</b>	<b>0.0413</b>	<b>0.0242</b>	<b>0.3758</b>	<b>1.2600e-003</b>	<b>0.1546</b>	<b>7.8000e-004</b>	<b>0.1553</b>	<b>0.0413</b>	<b>7.2000e-004</b>	<b>0.0420</b>		<b>131.2902</b>	<b>131.2902</b>	<b>2.6600e-003</b>	<b>2.8900e-003</b>	<b>132.2179</b>

**3.6 Paving - 2026**

Unmitigated Construction On-Site

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

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9597</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0393	0.0221	0.3561	1.2200e-003	0.1677	7.4000e-004	0.1684	0.0445	6.9000e-004	0.0452		128.2955	128.2955	2.4300e-003	2.7400e-003	129.1730
<b>Total</b>	<b>0.0393</b>	<b>0.0221</b>	<b>0.3561</b>	<b>1.2200e-003</b>	<b>0.1677</b>	<b>7.4000e-004</b>	<b>0.1684</b>	<b>0.0445</b>	<b>6.9000e-004</b>	<b>0.0452</b>		<b>128.2955</b>	<b>128.2955</b>	<b>2.4300e-003</b>	<b>2.7400e-003</b>	<b>129.1730</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3786</b>	<b>10.0395</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0374</b>	<b>0.0374</b>	<b>0.0000</b>	<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0393	0.0221	0.3561	1.2200e-003	0.1546	7.4000e-004	0.1553	0.0413	6.9000e-004	0.0419		128.2955	128.2955	2.4300e-003	2.7400e-003	129.1730
<b>Total</b>	<b>0.0393</b>	<b>0.0221</b>	<b>0.3561</b>	<b>1.2200e-003</b>	<b>0.1546</b>	<b>7.4000e-004</b>	<b>0.1553</b>	<b>0.0413</b>	<b>6.9000e-004</b>	<b>0.0419</b>		<b>128.2955</b>	<b>128.2955</b>	<b>2.4300e-003</b>	<b>2.7400e-003</b>	<b>129.1730</b>

**3.7 Finishing/Landscaping - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981
<b>Total</b>	<b>0.1321</b>	<b>1.3351</b>	<b>2.2297</b>	<b>3.1200e-003</b>		<b>0.0541</b>	<b>0.0541</b>		<b>0.0498</b>	<b>0.0498</b>		<b>302.0559</b>	<b>302.0559</b>	<b>0.0977</b>		<b>304.4981</b>

**Unmitigated Construction Off-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2500e-003	4.8300e-003	0.0752	2.5000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		26.2580	26.2580	5.3000e-004	5.8000e-004	26.4436
<b>Total</b>	<b>8.2500e-003</b>	<b>4.8300e-003</b>	<b>0.0752</b>	<b>2.5000e-004</b>	<b>0.0335</b>	<b>1.6000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.4000e-004</b>	<b>9.0400e-003</b>		<b>26.2580</b>	<b>26.2580</b>	<b>5.3000e-004</b>	<b>5.8000e-004</b>	<b>26.4436</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0696	1.3546	2.3421	3.1200e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	302.0559	302.0559	0.0977		304.4981
<b>Total</b>	<b>0.0696</b>	<b>1.3546</b>	<b>2.3421</b>	<b>3.1200e-003</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>302.0559</b>	<b>302.0559</b>	<b>0.0977</b>		<b>304.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	8.2500e-003	4.8300e-003	0.0752	2.5000e-004	0.0309	1.6000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003		26.2580	26.2580	5.3000e-004	5.8000e-004	26.4436
<b>Total</b>	<b>8.2500e-003</b>	<b>4.8300e-003</b>	<b>0.0752</b>	<b>2.5000e-004</b>	<b>0.0309</b>	<b>1.6000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.4000e-004</b>	<b>8.3900e-003</b>		<b>26.2580</b>	<b>26.2580</b>	<b>5.3000e-004</b>	<b>5.8000e-004</b>	<b>26.4436</b>

**3.7 Finishing/Landscaping - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981
<b>Total</b>	<b>0.1321</b>	<b>1.3351</b>	<b>2.2297</b>	<b>3.1200e-003</b>		<b>0.0541</b>	<b>0.0541</b>		<b>0.0498</b>	<b>0.0498</b>		<b>302.0559</b>	<b>302.0559</b>	<b>0.0977</b>		<b>304.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8500e-003	4.4200e-003	0.0712	2.4000e-004	0.0335	1.5000e-004	0.0337	8.8900e-003	1.4000e-004	9.0300e-003		25.6591	25.6591	4.9000e-004	5.5000e-004	25.8346
<b>Total</b>	<b>7.8500e-003</b>	<b>4.4200e-003</b>	<b>0.0712</b>	<b>2.4000e-004</b>	<b>0.0335</b>	<b>1.5000e-004</b>	<b>0.0337</b>	<b>8.8900e-003</b>	<b>1.4000e-004</b>	<b>9.0300e-003</b>		<b>25.6591</b>	<b>25.6591</b>	<b>4.9000e-004</b>	<b>5.5000e-004</b>	<b>25.8346</b>



Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0696	1.3546	2.3421	3.1200e-003		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	302.0559	302.0559	0.0977		304.4981
<b>Total</b>	<b>0.0696</b>	<b>1.3546</b>	<b>2.3421</b>	<b>3.1200e-003</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>		<b>5.0600e-003</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>302.0559</b>	<b>302.0559</b>	<b>0.0977</b>		<b>304.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8500e-003	4.4200e-003	0.0712	2.4000e-004	0.0309	1.5000e-004	0.0311	8.2500e-003	1.4000e-004	8.3900e-003		25.6591	25.6591	4.9000e-004	5.5000e-004	25.8346
<b>Total</b>	<b>7.8500e-003</b>	<b>4.4200e-003</b>	<b>0.0712</b>	<b>2.4000e-004</b>	<b>0.0309</b>	<b>1.5000e-004</b>	<b>0.0311</b>	<b>8.2500e-003</b>	<b>1.4000e-004</b>	<b>8.3900e-003</b>		<b>25.6591</b>	<b>25.6591</b>	<b>4.9000e-004</b>	<b>5.5000e-004</b>	<b>25.8346</b>

**3.8 Building Construction - 2025**

**Unmitigated Construction On-Site**

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

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1663	6.3938	2.6063	0.0305	1.1253	0.0335	1.1588	0.3239	0.0320	0.3559		3,362.3204	3,362.3204	0.2109	0.4869	3,512.6846
Worker	1.8847	1.1037	17.1622	0.0576	7.6567	0.0357	7.6924	2.0306	0.0328	2.0634		5,995.5837	5,995.5837	0.1214	0.1320	6,037.9524
<b>Total</b>	<b>2.0510</b>	<b>7.4974</b>	<b>19.7685</b>	<b>0.0881</b>	<b>8.7820</b>	<b>0.0692</b>	<b>8.8512</b>	<b>2.3545</b>	<b>0.0649</b>	<b>2.4193</b>		<b>9,357.9040</b>	<b>9,357.9040</b>	<b>0.3323</b>	<b>0.6189</b>	<b>9,550.6371</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0270</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1663	6.3938	2.6063	0.0305	1.0531	0.0335	1.0866	0.3061	0.0320	0.3382		3,362.3204	3,362.3204	0.2109	0.4869	3,512.6846
Worker	1.8847	1.1037	17.1622	0.0576	7.0576	0.0357	7.0933	1.8835	0.0328	1.9164		5,995.5837	5,995.5837	0.1214	0.1320	6,037.9524
<b>Total</b>	<b>2.0510</b>	<b>7.4974</b>	<b>19.7685</b>	<b>0.0881</b>	<b>8.1107</b>	<b>0.0692</b>	<b>8.1799</b>	<b>2.1897</b>	<b>0.0649</b>	<b>2.2545</b>		<b>9,357.9040</b>	<b>9,357.9040</b>	<b>0.3323</b>	<b>0.6189</b>	<b>9,550.6371</b>

**3.8 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

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

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1637	6.3486	2.5966	0.0299	1.1253	0.0335	1.1588	0.3239	0.0320	0.3559		3,297.9865	3,297.9865	0.2132	0.4794	3,446.1868
Worker	1.7932	1.0101	16.2603	0.0558	7.6567	0.0340	7.6907	2.0306	0.0313	2.0619		5,858.8293	5,858.8293	0.1111	0.1252	5,898.8989
<b>Total</b>	<b>1.9569</b>	<b>7.3587</b>	<b>18.8569</b>	<b>0.0857</b>	<b>8.7820</b>	<b>0.0675</b>	<b>8.8495</b>	<b>2.3545</b>	<b>0.0633</b>	<b>2.4177</b>		<b>9,156.8158</b>	<b>9,156.8158</b>	<b>0.3243</b>	<b>0.6046</b>	<b>9,345.0857</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0270</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1637	6.3486	2.5966	0.0299	1.0531	0.0335	1.0865	0.3061	0.0320	0.3381		3,297.9865	3,297.9865	0.2132	0.4794	3,446.1868
Worker	1.7932	1.0101	16.2603	0.0558	7.0576	0.0340	7.0916	1.8835	0.0313	1.9148		5,858.8293	5,858.8293	0.1111	0.1252	5,898.8989
<b>Total</b>	<b>1.9569</b>	<b>7.3587</b>	<b>18.8569</b>	<b>0.0857</b>	<b>8.1107</b>	<b>0.0675</b>	<b>8.1781</b>	<b>2.1897</b>	<b>0.0633</b>	<b>2.2530</b>		<b>9,156.8158</b>	<b>9,156.8158</b>	<b>0.3243</b>	<b>0.6046</b>	<b>9,345.0857</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.8 Building Construction - 2027**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1614	6.3020	2.5874	0.0292	1.1253	0.0334	1.1587	0.3239	0.0319	0.3558		3,230.5897	3,230.5897	0.2147	0.4715	3,376.4473
Worker	1.7079	0.9315	15.4967	0.0542	7.6567	0.0320	7.6887	2.0306	0.0295	2.0601		5,737.3214	5,737.3214	0.1021	0.1195	5,775.4691
<b>Total</b>	<b>1.8692</b>	<b>7.2335</b>	<b>18.0841</b>	<b>0.0834</b>	<b>8.7820</b>	<b>0.0654</b>	<b>8.8474</b>	<b>2.3545</b>	<b>0.0614</b>	<b>2.4159</b>		<b>8,967.9111</b>	<b>8,967.9111</b>	<b>0.3168</b>	<b>0.5909</b>	<b>9,151.9163</b>

**Mitigated Construction On-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>0.5335</b>	<b>10.9122</b>	<b>17.8738</b>	<b>0.0270</b>		<b>0.0846</b>	<b>0.0846</b>		<b>0.0846</b>	<b>0.0846</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1614	6.3020	2.5874	0.0292	1.0530	0.0334	1.0864	0.3061	0.0319	0.3380		3,230.5897	3,230.5897	0.2147	0.4715	3,376.4473
Worker	1.7079	0.9315	15.4967	0.0542	7.0576	0.0320	7.0896	1.8835	0.0295	1.9130		5,737.3214	5,737.3214	0.1021	0.1195	5,775.4691
<b>Total</b>	<b>1.8692</b>	<b>7.2335</b>	<b>18.0841</b>	<b>0.0834</b>	<b>8.1106</b>	<b>0.0654</b>	<b>8.1761</b>	<b>2.1897</b>	<b>0.0614</b>	<b>2.2511</b>		<b>8,967.9111</b>	<b>8,967.9111</b>	<b>0.3168</b>	<b>0.5909</b>	<b>9,151.9163</b>

**3.9 Architectural Coating - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	31.0475	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3416	0.1863	3.0993	0.0108	1.5313	6.4100e-003	1.5378	0.4061	5.9000e-003	0.4120		1,147.4643	1,147.4643	0.0204	0.0239	1,155.0938
<b>Total</b>	<b>0.3416</b>	<b>0.1863</b>	<b>3.0993</b>	<b>0.0108</b>	<b>1.5313</b>	<b>6.4100e-003</b>	<b>1.5378</b>	<b>0.4061</b>	<b>5.9000e-003</b>	<b>0.4120</b>		<b>1,147.4643</b>	<b>1,147.4643</b>	<b>0.0204</b>	<b>0.0239</b>	<b>1,155.0938</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>30.9312</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3416	0.1863	3.0993	0.0108	1.4115	6.4100e-003	1.4179	0.3767	5.9000e-003	0.3826		1,147.4643	1,147.4643	0.0204	0.0239	1,155.0938
<b>Total</b>	<b>0.3416</b>	<b>0.1863</b>	<b>3.0993</b>	<b>0.0108</b>	<b>1.4115</b>	<b>6.4100e-003</b>	<b>1.4179</b>	<b>0.3767</b>	<b>5.9000e-003</b>	<b>0.3826</b>		<b>1,147.4643</b>	<b>1,147.4643</b>	<b>0.0204</b>	<b>0.0239</b>	<b>1,155.0938</b>



Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Phase 2 Construction - Mitigated Tier 4 Interim  
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	1.20	Acre	1.20	52,272.00	0
Other Non-Asphalt Surfaces	5.27	Acre	5.27	0.00	0
Parking Lot	53.60	1000sqft	1.23	53,600.00	0
City Park	13.00	Acre	13.00	566,280.00	0
Condo/Townhouse	507.00	Dwelling Unit	49.00	507,000.00	1450
Single Family Housing	105.00	Dwelling Unit	25.20	189,000.00	300

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8	<b>Operational Year</b>		2027	

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - See assumption in the AQ/GHG Appendix of the DEIR.
- Construction Phase - See
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Off-road Equipment -
- Off-road Equipment - Assumed for modeling purposes.
- Trips and VMT - See assumptions file in the AQ/GHG appendix of the DEIR.
- Grading -

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	60.00	70.00

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstructionPhase	NumDays	155.00	139.00
tblConstructionPhase	NumDays	155.00	141.00
tblConstructionPhase	NumDays	110.00	143.00
tblConstructionPhase	NumDays	1,550.00	423.00
tblConstructionPhase	NumDays	110.00	142.00
tblLandUse	LandUseSquareFeet	229,561.20	0.00
tblLandUse	LotAcreage	31.69	49.00
tblLandUse	LotAcreage	34.09	25.20
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0897	0.9076	0.6251	1.3600e-003	0.6601	0.0407	0.7007	0.3359	0.0374	0.3733	0.0000	119.9664	119.9664	0.0361	7.8000e-004	121.1024
2025	0.5229	4.8697	5.2554	0.0120	1.4859	0.2019	1.6879	0.5659	0.1859	0.7518	0.0000	1,062.1715	1,062.1715	0.3089	9.4600e-003	1,072.7127
2026	0.4506	2.9182	5.1666	0.0157	1.1326	0.0930	1.2256	0.3041	0.0871	0.3912	0.0000	1,474.4940	1,474.4940	0.1336	0.0718	1,499.2381
2027	2.4595	1.5848	2.9559	9.3800e-003	0.7583	0.0489	0.8071	0.2033	0.0462	0.2495	0.0000	887.4502	887.4502	0.0652	0.0421	901.6290
<b>Maximum</b>	<b>2.4595</b>	<b>4.8697</b>	<b>5.2554</b>	<b>0.0157</b>	<b>1.4859</b>	<b>0.2019</b>	<b>1.6879</b>	<b>0.5659</b>	<b>0.1859</b>	<b>0.7518</b>	<b>0.0000</b>	<b>1,474.4940</b>	<b>1,474.4940</b>	<b>0.3089</b>	<b>0.0718</b>	<b>1,499.2381</b>

**Mitigated Construction**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0248	0.4121	0.7777	1.3600e-003	0.2862	2.1300e-003	0.2884	0.1447	2.1300e-003	0.1469	0.0000	119.9663	119.9663	0.0361	7.8000e-004	121.1022
2025	0.1979	3.7197	6.9224	0.0120	0.6878	0.0188	0.7066	0.2563	0.0188	0.2751	0.0000	1,062.1703	1,062.1703	0.3089	9.4600e-003	1,072.7116
2026	0.3211	2.7604	5.4883	0.0157	1.0463	0.0212	1.0676	0.2829	0.0207	0.3036	0.0000	1,474.4936	1,474.4936	0.1336	0.0718	1,499.2376
2027	2.3883	1.4612	3.0926	9.3800e-003	0.7003	0.0121	0.7123	0.1891	0.0117	0.2008	0.0000	887.4499	887.4499	0.0652	0.0421	901.6288
Maximum	2.3883	3.7197	6.9224	0.0157	1.0463	0.0212	1.0676	0.2829	0.0207	0.3036	0.0000	1,474.4936	1,474.4936	0.3089	0.0718	1,499.2376

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	16.76	18.74	-16.27	0.00	32.61	85.89	37.24	38.05	85.05	47.54	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2024	12-31-2024	0.9930	0.4351
2	1-1-2025	3-31-2025	1.0299	0.6819
3	4-1-2025	6-30-2025	1.5470	1.1006
4	7-1-2025	9-30-2025	1.4848	1.0739
5	10-1-2025	12-31-2025	1.3305	1.0588
6	1-1-2026	3-31-2026	1.0833	1.0316
7	4-1-2026	6-30-2026	0.7581	0.6798
8	7-1-2026	9-30-2026	0.7435	0.6649
9	10-1-2026	12-31-2026	0.7607	0.6822
10	1-1-2027	3-31-2027	1.6372	1.5548
11	4-1-2027	6-30-2027	1.7907	1.7065
12	7-1-2027	9-30-2027	0.6100	0.5813
		Highest	1.7907	1.7065

3.0 Construction Detail

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	1/6/2025	5	70	
2	Rough Grading	Grading	1/7/2025	7/20/2025	5	139	
3	Utility Trenching	Trenching	3/21/2025	9/7/2025	5	121	
4	Fine Grading	Grading	6/2/2025	12/15/2025	5	141	
5	Paving	Paving	9/9/2025	3/26/2026	5	143	
6	Finishing/Landscaping	Trenching	10/29/2025	5/13/2026	5	141	
7	Building Construction	Building Construction	12/17/2025	7/31/2027	5	423	
8	Architectural Coating	Architectural Coating	1/14/2027	7/31/2027	5	142	

**Acres of Grading (Site Preparation Phase): 105**

**Acres of Grading (Grading Phase): 417**

**Acres of Paving: 7.7**

**Residential Indoor: 1,409,400; Residential Outdoor: 469,800; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,352**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Rough Grading	Excavators	2	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Scrapers	2	8.00	367	0.48
Rough Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching	Excavators	2	8.00	158	0.38
Utility Trenching	Trenchers	1	8.00	78	0.50
Fine Grading	Excavators	2	8.00	158	0.38
Fine Grading	Graders	1	8.00	187	0.41
Fine Grading	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grading	Scrapers	2	8.00	367	0.48
Fine Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	8	20.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	685.00	176.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	137.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6519	0.0000	0.6519	0.3337	0.0000	0.3337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0878	0.8968	0.6051	1.2600e-003		0.0406	0.0406		0.0373	0.0373	0.0000	110.4083	110.4083	0.0357	0.0000	111.3010
<b>Total</b>	<b>0.0878</b>	<b>0.8968</b>	<b>0.6051</b>	<b>1.2600e-003</b>	<b>0.6519</b>	<b>0.0406</b>	<b>0.6924</b>	<b>0.3337</b>	<b>0.0373</b>	<b>0.3710</b>	<b>0.0000</b>	<b>110.4083</b>	<b>110.4083</b>	<b>0.0357</b>	<b>0.0000</b>	<b>111.3010</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	9.6600e-003	3.8600e-003	5.0000e-005	1.6600e-003	5.0000e-005	1.7100e-003	4.8000e-004	5.0000e-005	5.3000e-004	0.0000	4.6585	4.6585	2.8000e-004	6.7000e-004	4.8657
Worker	1.5800e-003	1.0800e-003	0.0162	5.0000e-005	6.5200e-003	3.0000e-005	6.5500e-003	1.7300e-003	3.0000e-005	1.7600e-003	0.0000	4.8997	4.8997	1.0000e-004	1.1000e-004	4.9356
<b>Total</b>	<b>1.8400e-003</b>	<b>0.0107</b>	<b>0.0200</b>	<b>1.0000e-004</b>	<b>8.1800e-003</b>	<b>8.0000e-005</b>	<b>8.2600e-003</b>	<b>2.2100e-003</b>	<b>8.0000e-005</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>9.5581</b>	<b>9.5581</b>	<b>3.8000e-004</b>	<b>7.8000e-004</b>	<b>9.8014</b>

Mitigated Construction On-Site

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

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Fugitive Dust					0.2787	0.0000	0.2787	0.1427	0.0000	0.1427	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0230	0.4014	0.7577	1.2600e-003		2.0500e-003	2.0500e-003		2.0500e-003	2.0500e-003	0.0000	110.4082	110.4082	0.0357	0.0000	111.3009
<b>Total</b>	<b>0.0230</b>	<b>0.4014</b>	<b>0.7577</b>	<b>1.2600e-003</b>	<b>0.2787</b>	<b>2.0500e-003</b>	<b>0.2807</b>	<b>0.1427</b>	<b>2.0500e-003</b>	<b>0.1447</b>	<b>0.0000</b>	<b>110.4082</b>	<b>110.4082</b>	<b>0.0357</b>	<b>0.0000</b>	<b>111.3009</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	9.6600e-003	3.8600e-003	5.0000e-005	1.5600e-003	5.0000e-005	1.6100e-003	4.5000e-004	5.0000e-005	5.0000e-004	0.0000	4.6585	4.6585	2.8000e-004	6.7000e-004	4.8657
Worker	1.5800e-003	1.0800e-003	0.0162	5.0000e-005	6.0100e-003	3.0000e-005	6.0400e-003	1.6100e-003	3.0000e-005	1.6400e-003	0.0000	4.8997	4.8997	1.0000e-004	1.1000e-004	4.9356
<b>Total</b>	<b>1.8400e-003</b>	<b>0.0107</b>	<b>0.0200</b>	<b>1.0000e-004</b>	<b>7.5700e-003</b>	<b>8.0000e-005</b>	<b>7.6500e-003</b>	<b>2.0600e-003</b>	<b>8.0000e-005</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>9.5581</b>	<b>9.5581</b>	<b>3.8000e-004</b>	<b>7.8000e-004</b>	<b>9.8014</b>

**3.2 Site Preparation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0918	0.0000	0.0918	0.0259	0.0000	0.0259	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9500e-003	0.0505	0.0358	8.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	6.6934	6.6934	2.1600e-003	0.0000	6.7475
<b>Total</b>	<b>4.9500e-003</b>	<b>0.0505</b>	<b>0.0358</b>	<b>8.0000e-005</b>	<b>0.0918</b>	<b>2.1700e-003</b>	<b>0.0940</b>	<b>0.0259</b>	<b>2.0000e-003</b>	<b>0.0279</b>	<b>0.0000</b>	<b>6.6934</b>	<b>6.6934</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>6.7475</b>



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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.8000e-004	2.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2771	0.2771	2.0000e-005	4.0000e-005	0.2894
Worker	9.0000e-005	6.0000e-005	9.2000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2897	0.2897	1.0000e-005	1.0000e-005	0.2918
<b>Total</b>	<b>1.1000e-004</b>	<b>6.4000e-004</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.5668</b>	<b>0.5668</b>	<b>3.0000e-005</b>	<b>5.0000e-005</b>	<b>0.5812</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0393	0.0000	0.0393	0.0111	0.0000	0.0111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3900e-003	0.0243	0.0459	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.6934	6.6934	2.1600e-003	0.0000	6.7475
<b>Total</b>	<b>1.3900e-003</b>	<b>0.0243</b>	<b>0.0459</b>	<b>8.0000e-005</b>	<b>0.0393</b>	<b>1.2000e-004</b>	<b>0.0394</b>	<b>0.0111</b>	<b>1.2000e-004</b>	<b>0.0112</b>	<b>0.0000</b>	<b>6.6934</b>	<b>6.6934</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>6.7475</b>

**Mitigated Construction Off-Site**

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.8000e-004	2.3000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2771	0.2771	2.0000e-005	4.0000e-005	0.2894
Worker	9.0000e-005	6.0000e-005	9.2000e-004	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2897	0.2897	1.0000e-005	1.0000e-005	0.2918
<b>Total</b>	<b>1.1000e-004</b>	<b>6.4000e-004</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.5668</b>	<b>0.5668</b>	<b>3.0000e-005</b>	<b>5.0000e-005</b>	<b>0.5812</b>

**3.3 Rough Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6397	0.0000	0.6397	0.2539	0.0000	0.2539	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2016	1.9420	1.8300	4.3100e-003		0.0786	0.0786		0.0723	0.0723	0.0000	378.8182	378.8182	0.1225	0.0000	381.8811
<b>Total</b>	<b>0.2016</b>	<b>1.9420</b>	<b>1.8300</b>	<b>4.3100e-003</b>	<b>0.6397</b>	<b>0.0786</b>	<b>0.7183</b>	<b>0.2539</b>	<b>0.0723</b>	<b>0.3263</b>	<b>0.0000</b>	<b>378.8182</b>	<b>378.8182</b>	<b>0.1225</b>	<b>0.0000</b>	<b>381.8811</b>

**Unmitigated Construction Off-Site**

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

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0700e-003	0.0405	0.0162	1.9000e-004	7.0100e-003	2.1000e-004	7.2200e-003	2.0200e-003	2.0000e-004	2.2200e-003	0.0000	19.2549	19.2549	1.2100e-003	2.7900e-003	20.1160
Worker	3.4900e-003	2.2800e-003	0.0356	1.2000e-004	0.0153	7.0000e-005	0.0153	4.0500e-003	7.0000e-005	4.1200e-003	0.0000	11.1860	11.1860	2.2000e-004	2.5000e-004	11.2650
<b>Total</b>	<b>4.5600e-003</b>	<b>0.0428</b>	<b>0.0518</b>	<b>3.1000e-004</b>	<b>0.0223</b>	<b>2.8000e-004</b>	<b>0.0226</b>	<b>6.0700e-003</b>	<b>2.7000e-004</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>30.4408</b>	<b>30.4408</b>	<b>1.4300e-003</b>	<b>3.0400e-003</b>	<b>31.3810</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2735	0.0000	0.2735	0.1086	0.0000	0.1086	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0703	1.3393	2.5522	4.3100e-003		7.0600e-003	7.0600e-003		7.0600e-003	7.0600e-003	0.0000	378.8177	378.8177	0.1225	0.0000	381.8807
<b>Total</b>	<b>0.0703</b>	<b>1.3393</b>	<b>2.5522</b>	<b>4.3100e-003</b>	<b>0.2735</b>	<b>7.0600e-003</b>	<b>0.2805</b>	<b>0.1086</b>	<b>7.0600e-003</b>	<b>0.1156</b>	<b>0.0000</b>	<b>378.8177</b>	<b>378.8177</b>	<b>0.1225</b>	<b>0.0000</b>	<b>381.8807</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0700e-003	0.0405	0.0162	1.9000e-004	6.5600e-003	2.1000e-004	6.7700e-003	1.9100e-003	2.0000e-004	2.1100e-003	0.0000	19.2549	19.2549	1.2100e-003	2.7900e-003	20.1160
Worker	3.4900e-003	2.2800e-003	0.0356	1.2000e-004	0.0141	7.0000e-005	0.0141	3.7600e-003	7.0000e-005	3.8300e-003	0.0000	11.1860	11.1860	2.2000e-004	2.5000e-004	11.2650

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	4.5600e-003	0.0428	0.0518	3.1000e-004	0.0206	2.8000e-004	0.0209	5.6700e-003	2.7000e-004	5.9400e-003	0.0000	30.4408	30.4408	1.4300e-003	3.0400e-003	31.3810
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3.4 Utility Trenching - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0392	0.3259	0.5498	8.3000e-004		0.0191	0.0191		0.0176	0.0176	0.0000	72.8880	72.8880	0.0236	0.0000	73.4773
<b>Total</b>	<b>0.0392</b>	<b>0.3259</b>	<b>0.5498</b>	<b>8.3000e-004</b>		<b>0.0191</b>	<b>0.0191</b>		<b>0.0176</b>	<b>0.0176</b>	<b>0.0000</b>	<b>72.8880</b>	<b>72.8880</b>	<b>0.0236</b>	<b>0.0000</b>	<b>73.4773</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	8.0000e-004	0.0124	4.0000e-005	5.3100e-003	3.0000e-005	5.3400e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.8950	3.8950	8.0000e-005	9.0000e-005	3.9225
<b>Total</b>	<b>1.2200e-003</b>	<b>8.0000e-004</b>	<b>0.0124</b>	<b>4.0000e-005</b>	<b>5.3100e-003</b>	<b>3.0000e-005</b>	<b>5.3400e-003</b>	<b>1.4100e-003</b>	<b>2.0000e-005</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>3.8950</b>	<b>3.8950</b>	<b>8.0000e-005</b>	<b>9.0000e-005</b>	<b>3.9225</b>

Mitigated Construction On-Site

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0123	0.3645	0.6281	8.3000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	72.8879	72.8879	0.0236	0.0000	73.4773
<b>Total</b>	<b>0.0123</b>	<b>0.3645</b>	<b>0.6281</b>	<b>8.3000e-004</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>72.8879</b>	<b>72.8879</b>	<b>0.0236</b>	<b>0.0000</b>	<b>73.4773</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	8.0000e-004	0.0124	4.0000e-005	4.9000e-003	3.0000e-005	4.9200e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.8950	3.8950	8.0000e-005	9.0000e-005	3.9225
<b>Total</b>	<b>1.2200e-003</b>	<b>8.0000e-004</b>	<b>0.0124</b>	<b>4.0000e-005</b>	<b>4.9000e-003</b>	<b>3.0000e-005</b>	<b>4.9200e-003</b>	<b>1.3100e-003</b>	<b>2.0000e-005</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>3.8950</b>	<b>3.8950</b>	<b>8.0000e-005</b>	<b>9.0000e-005</b>	<b>3.9225</b>

**3.5 Fine Grading - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6489	0.0000	0.6489	0.2576	0.0000	0.2576	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Off-Road	0.2045	1.9700	1.8563	4.3800e-003		0.0797	0.0797		0.0734	0.0734	0.0000	384.2688	384.2688	0.1243	0.0000	387.3758
<b>Total</b>	<b>0.2045</b>	<b>1.9700</b>	<b>1.8563</b>	<b>4.3800e-003</b>	<b>0.6489</b>	<b>0.0797</b>	<b>0.7286</b>	<b>0.2576</b>	<b>0.0734</b>	<b>0.3309</b>	<b>0.0000</b>	<b>384.2688</b>	<b>384.2688</b>	<b>0.1243</b>	<b>0.0000</b>	<b>387.3758</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0900e-003	0.0411	0.0164	2.0000e-004	7.1100e-003	2.1000e-004	7.3200e-003	2.0500e-003	2.0000e-004	2.2500e-003	0.0000	19.5319	19.5319	1.2300e-003	2.8300e-003	20.4054
Worker	3.5400e-003	2.3200e-003	0.0361	1.2000e-004	0.0155	7.0000e-005	0.0156	4.1100e-003	7.0000e-005	4.1800e-003	0.0000	11.3469	11.3469	2.3000e-004	2.5000e-004	11.4271
<b>Total</b>	<b>4.6300e-003</b>	<b>0.0434</b>	<b>0.0526</b>	<b>3.2000e-004</b>	<b>0.0226</b>	<b>2.8000e-004</b>	<b>0.0229</b>	<b>6.1600e-003</b>	<b>2.7000e-004</b>	<b>6.4300e-003</b>	<b>0.0000</b>	<b>30.8788</b>	<b>30.8788</b>	<b>1.4600e-003</b>	<b>3.0800e-003</b>	<b>31.8325</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2774	0.0000	0.2774	0.1101	0.0000	0.1101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0713	1.3586	2.5889	4.3800e-003		7.1600e-003	7.1600e-003		7.1600e-003	7.1600e-003	0.0000	384.2683	384.2683	0.1243	0.0000	387.3753
<b>Total</b>	<b>0.0713</b>	<b>1.3586</b>	<b>2.5889</b>	<b>4.3800e-003</b>	<b>0.2774</b>	<b>7.1600e-003</b>	<b>0.2845</b>	<b>0.1101</b>	<b>7.1600e-003</b>	<b>0.1173</b>	<b>0.0000</b>	<b>384.2683</b>	<b>384.2683</b>	<b>0.1243</b>	<b>0.0000</b>	<b>387.3753</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0800e-003	0.0411	0.0164	2.0000e-004	6.6500e-003	2.1000e-004	6.8700e-003	1.9400e-003	2.0000e-004	2.1400e-003	0.0000	19.5319	19.5319	1.2300e-003	2.8300e-003	20.4054
Worker	3.5400e-003	2.3200e-003	0.0361	1.2000e-004	0.0143	7.0000e-005	0.0143	3.8100e-003	7.0000e-005	3.8800e-003	0.0000	11.3469	11.3469	2.3000e-004	2.5000e-004	11.4271
<b>Total</b>	<b>4.6300e-003</b>	<b>0.0434</b>	<b>0.0526</b>	<b>3.2000e-004</b>	<b>0.0209</b>	<b>2.8000e-004</b>	<b>0.0212</b>	<b>5.7500e-003</b>	<b>2.7000e-004</b>	<b>6.0200e-003</b>	<b>0.0000</b>	<b>30.8788</b>	<b>30.8788</b>	<b>1.4600e-003</b>	<b>3.0800e-003</b>	<b>31.8325</b>

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0375	0.3519	0.5977	9.3000e-004		0.0172	0.0172		0.0158	0.0158	0.0000	82.0790	82.0790	0.0266	0.0000	82.7426
Paving	1.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0394</b>	<b>0.3519</b>	<b>0.5977</b>	<b>9.3000e-004</b>		<b>0.0172</b>	<b>0.0172</b>		<b>0.0158</b>	<b>0.0158</b>	<b>0.0000</b>	<b>82.0790</b>	<b>82.0790</b>	<b>0.0266</b>	<b>0.0000</b>	<b>82.7426</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.0100e-003	0.0158	5.0000e-005	6.7500e-003	3.0000e-005	6.7800e-003	1.7900e-003	3.0000e-005	1.8200e-003	0.0000	4.9492	4.9492	1.0000e-004	1.1000e-004	4.9841
<b>Total</b>	<b>1.5500e-003</b>	<b>1.0100e-003</b>	<b>0.0158</b>	<b>5.0000e-005</b>	<b>6.7500e-003</b>	<b>3.0000e-005</b>	<b>6.7800e-003</b>	<b>1.7900e-003</b>	<b>3.0000e-005</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>4.9492</b>	<b>4.9492</b>	<b>1.0000e-004</b>	<b>1.1000e-004</b>	<b>4.9841</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0137	0.4116	0.7091	9.3000e-004		1.5300e-003	1.5300e-003		1.5300e-003	1.5300e-003	0.0000	82.0789	82.0789	0.0266	0.0000	82.7425
Paving	1.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0155</b>	<b>0.4116</b>	<b>0.7091</b>	<b>9.3000e-004</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>82.0789</b>	<b>82.0789</b>	<b>0.0266</b>	<b>0.0000</b>	<b>82.7425</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	1.5500e-003	1.0100e-003	0.0158	5.0000e-005	6.2200e-003	3.0000e-005	6.2600e-003	1.6600e-003	3.0000e-005	1.6900e-003	0.0000	4.9492	4.9492	1.0000e-004	1.1000e-004	4.9841
<b>Total</b>	<b>1.5500e-003</b>	<b>1.0100e-003</b>	<b>0.0158</b>	<b>5.0000e-005</b>	<b>6.2200e-003</b>	<b>3.0000e-005</b>	<b>6.2600e-003</b>	<b>1.6600e-003</b>	<b>3.0000e-005</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>4.9492</b>	<b>4.9492</b>	<b>1.0000e-004</b>	<b>1.1000e-004</b>	<b>4.9841</b>

**3.6 Paving - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0279	0.2617	0.4446	7.0000e-004		0.0128	0.0128		0.0117	0.0117	0.0000	61.0587	61.0587	0.0198	0.0000	61.5524
Paving	1.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0293</b>	<b>0.2617</b>	<b>0.4446</b>	<b>7.0000e-004</b>		<b>0.0128</b>	<b>0.0128</b>		<b>0.0117</b>	<b>0.0117</b>	<b>0.0000</b>	<b>61.0587</b>	<b>61.0587</b>	<b>0.0198</b>	<b>0.0000</b>	<b>61.5524</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	6.9000e-004	0.0111	4.0000e-005	5.0200e-003	2.0000e-005	5.0500e-003	1.3300e-003	2.0000e-005	1.3500e-003	0.0000	3.5977	3.5977	7.0000e-005	8.0000e-005	3.6223
<b>Total</b>	<b>1.0900e-003</b>	<b>6.9000e-004</b>	<b>0.0111</b>	<b>4.0000e-005</b>	<b>5.0200e-003</b>	<b>2.0000e-005</b>	<b>5.0500e-003</b>	<b>1.3300e-003</b>	<b>2.0000e-005</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>3.5977</b>	<b>3.5977</b>	<b>7.0000e-005</b>	<b>8.0000e-005</b>	<b>3.6223</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0102	0.3062	0.5275	7.0000e-004		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	61.0587	61.0587	0.0198	0.0000	61.5524
Paving	1.3600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0116</b>	<b>0.3062</b>	<b>0.5275</b>	<b>7.0000e-004</b>		<b>1.1400e-003</b>	<b>1.1400e-003</b>		<b>1.1400e-003</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>61.0587</b>	<b>61.0587</b>	<b>0.0198</b>	<b>0.0000</b>	<b>61.5524</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	6.9000e-004	0.0111	4.0000e-005	4.6300e-003	2.0000e-005	4.6500e-003	1.2400e-003	2.0000e-005	1.2600e-003	0.0000	3.5977	3.5977	7.0000e-005	8.0000e-005	3.6223
<b>Total</b>	<b>1.0900e-003</b>	<b>6.9000e-004</b>	<b>0.0111</b>	<b>4.0000e-005</b>	<b>4.6300e-003</b>	<b>2.0000e-005</b>	<b>4.6500e-003</b>	<b>1.2400e-003</b>	<b>2.0000e-005</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>3.5977</b>	<b>3.5977</b>	<b>7.0000e-005</b>	<b>8.0000e-005</b>	<b>3.6223</b>

**3.7 Finishing/Landscaping - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	tons/yr										MT/yr					
Off-Road	3.0400e-003	0.0307	0.0513	7.0000e-005		1.2400e-003	1.2400e-003		1.1400e-003	1.1400e-003	0.0000	6.3025	6.3025	2.0400e-003	0.0000	6.3534
<b>Total</b>	<b>3.0400e-003</b>	<b>0.0307</b>	<b>0.0513</b>	<b>7.0000e-005</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>		<b>1.1400e-003</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>6.3025</b>	<b>6.3025</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>6.3534</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.1000e-004	1.7700e-003	1.0000e-005	7.6000e-004	0.0000	7.6000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.5553	0.5553	1.0000e-005	1.0000e-005	0.5592
<b>Total</b>	<b>1.7000e-004</b>	<b>1.1000e-004</b>	<b>1.7700e-003</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.5553</b>	<b>0.5553</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5592</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6000e-003	0.0312	0.0539	7.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.3025	6.3025	2.0400e-003	0.0000	6.3534
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0312</b>	<b>0.0539</b>	<b>7.0000e-005</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>6.3025</b>	<b>6.3025</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>6.3534</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.1000e-004	1.7700e-003	1.0000e-005	7.0000e-004	0.0000	7.0000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5553	0.5553	1.0000e-005	1.0000e-005	0.5592
<b>Total</b>	<b>1.7000e-004</b>	<b>1.1000e-004</b>	<b>1.7700e-003</b>	<b>1.0000e-005</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5553</b>	<b>0.5553</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5592</b>

**3.7 Finishing/Landscaping - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.2800e-003	0.0634	0.1059	1.5000e-004		2.5700e-003	2.5700e-003		2.3600e-003	2.3600e-003	0.0000	13.0160	13.0160	4.2100e-003	0.0000	13.1212
<b>Total</b>	<b>6.2800e-003</b>	<b>0.0634</b>	<b>0.1059</b>	<b>1.5000e-004</b>		<b>2.5700e-003</b>	<b>2.5700e-003</b>		<b>2.3600e-003</b>	<b>2.3600e-003</b>	<b>0.0000</b>	<b>13.0160</b>	<b>13.0160</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.1212</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.1000e-004	3.4600e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.2000e-004	0.0000	1.1206	1.1206	2.0000e-005	2.0000e-005	1.1282
<b>Total</b>	<b>3.4000e-004</b>	<b>2.1000e-004</b>	<b>3.4600e-003</b>	<b>1.0000e-005</b>	<b>1.5600e-003</b>	<b>1.0000e-005</b>	<b>1.5700e-003</b>	<b>4.2000e-004</b>	<b>1.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>1.1206</b>	<b>1.1206</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.1282</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3100e-003	0.0643	0.1113	1.5000e-004		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	13.0160	13.0160	4.2100e-003	0.0000	13.1212
<b>Total</b>	<b>3.3100e-003</b>	<b>0.0643</b>	<b>0.1113</b>	<b>1.5000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>13.0160</b>	<b>13.0160</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.1212</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.1000e-004	3.4600e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.1206	1.1206	2.0000e-005	2.0000e-005	1.1282

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	3.4000e-004	2.1000e-004	3.4600e-003	1.0000e-005	1.4400e-003	1.0000e-005	1.4500e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.1206	1.1206	2.0000e-005	2.0000e-005	1.1282
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3.8 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.5200e-003	0.0686	0.0885	1.5000e-004		2.9000e-003	2.9000e-003		2.7300e-003	2.7300e-003	0.0000	12.7556	12.7556	3.0000e-003	0.0000	12.8305
<b>Total</b>	<b>7.5200e-003</b>	<b>0.0686</b>	<b>0.0885</b>	<b>1.5000e-004</b>		<b>2.9000e-003</b>	<b>2.9000e-003</b>		<b>2.7300e-003</b>	<b>2.7300e-003</b>	<b>0.0000</b>	<b>12.7556</b>	<b>12.7556</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>12.8305</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0353	0.0141	1.7000e-004	6.1000e-003	1.8000e-004	6.2800e-003	1.7600e-003	1.8000e-004	1.9300e-003	0.0000	16.7614	16.7614	1.0500e-003	2.4300e-003	17.5111
Worker	9.4700e-003	6.1900e-003	0.0965	3.2000e-004	0.0414	2.0000e-004	0.0416	0.0110	1.8000e-004	0.0112	0.0000	30.3188	30.3188	6.0000e-004	6.7000e-004	30.5329
<b>Total</b>	<b>0.0104</b>	<b>0.0415</b>	<b>0.1106</b>	<b>4.9000e-004</b>	<b>0.0475</b>	<b>3.8000e-004</b>	<b>0.0478</b>	<b>0.0127</b>	<b>3.6000e-004</b>	<b>0.0131</b>	<b>0.0000</b>	<b>47.0802</b>	<b>47.0802</b>	<b>1.6500e-003</b>	<b>3.1000e-003</b>	<b>48.0440</b>

Mitigated Construction On-Site

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.9300e-003	0.0600	0.0983	1.5000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	12.7556	12.7556	3.0000e-003	0.0000	12.8305
<b>Total</b>	<b>2.9300e-003</b>	<b>0.0600</b>	<b>0.0983</b>	<b>1.5000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>12.7556</b>	<b>12.7556</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>12.8305</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0353	0.0141	1.7000e-004	5.7100e-003	1.8000e-004	5.8900e-003	1.6600e-003	1.8000e-004	1.8400e-003	0.0000	16.7614	16.7614	1.0500e-003	2.4300e-003	17.5111
Worker	9.4700e-003	6.1900e-003	0.0965	3.2000e-004	0.0381	2.0000e-004	0.0383	0.0102	1.8000e-004	0.0104	0.0000	30.3188	30.3188	6.0000e-004	6.7000e-004	30.5329
<b>Total</b>	<b>0.0104</b>	<b>0.0415</b>	<b>0.1106</b>	<b>4.9000e-004</b>	<b>0.0438</b>	<b>3.8000e-004</b>	<b>0.0442</b>	<b>0.0119</b>	<b>3.6000e-004</b>	<b>0.0122</b>	<b>0.0000</b>	<b>47.0802</b>	<b>47.0802</b>	<b>1.6500e-003</b>	<b>3.1000e-003</b>	<b>48.0440</b>

**3.8 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0218	0.8305	0.3335	3.8900e-003	0.1447	4.3500e-003	0.1491	0.0417	4.1600e-003	0.0459	0.0000	390.0867	390.0867	0.0253	0.0567	407.6169
Worker	0.2134	0.1344	2.1690	7.3800e-003	0.9814	4.4400e-003	0.9858	0.2606	4.0800e-003	0.2647	0.0000	702.9595	702.9595	0.0131	0.0150	707.7636
<b>Total</b>	<b>0.2352</b>	<b>0.9649</b>	<b>2.5025</b>	<b>0.0113</b>	<b>1.1261</b>	<b>8.7900e-003</b>	<b>1.1348</b>	<b>0.3024</b>	<b>8.2400e-003</b>	<b>0.3106</b>	<b>0.0000</b>	<b>1,093.0462</b>	<b>1,093.0462</b>	<b>0.0384</b>	<b>0.0717</b>	<b>1,115.3805</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0696	1.4240	2.3325	3.5200e-003		0.0110	0.0110		0.0110	0.0110	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.0696</b>	<b>1.4240</b>	<b>2.3325</b>	<b>3.5200e-003</b>		<b>0.0110</b>	<b>0.0110</b>		<b>0.0110</b>	<b>0.0110</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

Mitigated Construction Off-Site



Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0218	0.8305	0.3335	3.8900e-003	0.1355	4.3500e-003	0.1398	0.0395	4.1600e-003	0.0436	0.0000	390.0867	390.0867	0.0253	0.0567	407.6169
Worker	0.2134	0.1344	2.1690	7.3800e-003	0.9048	4.4400e-003	0.9092	0.2418	4.0800e-003	0.2459	0.0000	702.9595	702.9595	0.0131	0.0150	707.7636
<b>Total</b>	<b>0.2352</b>	<b>0.9649</b>	<b>2.5025</b>	<b>0.0113</b>	<b>1.0402</b>	<b>8.7900e-003</b>	<b>1.0490</b>	<b>0.2813</b>	<b>8.2400e-003</b>	<b>0.2895</b>	<b>0.0000</b>	<b>1,093.0462</b>	<b>1,093.0462</b>	<b>0.0384</b>	<b>0.0717</b>	<b>1,115.3805</b>

**3.8 Building Construction - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1032	0.9415	1.2144	2.0400e-003		0.0398	0.0398		0.0375	0.0375	0.0000	175.0992	175.0992	0.0412	0.0000	176.1282
<b>Total</b>	<b>0.1032</b>	<b>0.9415</b>	<b>1.2144</b>	<b>2.0400e-003</b>		<b>0.0398</b>	<b>0.0398</b>		<b>0.0375</b>	<b>0.0375</b>	<b>0.0000</b>	<b>175.0992</b>	<b>175.0992</b>	<b>0.0412</b>	<b>0.0000</b>	<b>176.1282</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0124	0.4769	0.1923	2.2000e-003	0.0837	2.5100e-003	0.0862	0.0242	2.4000e-003	0.0266	0.0000	221.0667	221.0667	0.0147	0.0323	231.0482
Worker	0.1174	0.0717	1.1958	4.1500e-003	0.5678	2.4200e-003	0.5702	0.1508	2.2300e-003	0.1530	0.0000	398.2530	398.2530	6.9700e-003	8.2900e-003	400.8990
<b>Total</b>	<b>0.1298</b>	<b>0.5486</b>	<b>1.3882</b>	<b>6.3500e-003</b>	<b>0.6515</b>	<b>4.9300e-003</b>	<b>0.6564</b>	<b>0.1749</b>	<b>4.6300e-003</b>	<b>0.1796</b>	<b>0.0000</b>	<b>619.3197</b>	<b>619.3197</b>	<b>0.0217</b>	<b>0.0406</b>	<b>631.9472</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0403	0.8239	1.3495	2.0400e-003		6.3900e-003	6.3900e-003		6.3900e-003	6.3900e-003	0.0000	175.0990	175.0990	0.0412	0.0000	176.1280
<b>Total</b>	<b>0.0403</b>	<b>0.8239</b>	<b>1.3495</b>	<b>2.0400e-003</b>		<b>6.3900e-003</b>	<b>6.3900e-003</b>		<b>6.3900e-003</b>	<b>6.3900e-003</b>	<b>0.0000</b>	<b>175.0990</b>	<b>175.0990</b>	<b>0.0412</b>	<b>0.0000</b>	<b>176.1280</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0124	0.4769	0.1923	2.2000e-003	0.0784	2.5100e-003	0.0809	0.0228	2.4000e-003	0.0252	0.0000	221.0667	221.0667	0.0147	0.0323	231.0482
Worker	0.1174	0.0717	1.1958	4.1500e-003	0.5235	2.4200e-003	0.5259	0.1399	2.2300e-003	0.1421	0.0000	398.2530	398.2530	6.9700e-003	8.2900e-003	400.8990
<b>Total</b>	<b>0.1298</b>	<b>0.5486</b>	<b>1.3882</b>	<b>6.3500e-003</b>	<b>0.6018</b>	<b>4.9300e-003</b>	<b>0.6068</b>	<b>0.1627</b>	<b>4.6300e-003</b>	<b>0.1674</b>	<b>0.0000</b>	<b>619.3197</b>	<b>619.3197</b>	<b>0.0217</b>	<b>0.0406</b>	<b>631.9472</b>

Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.9 Architectural Coating - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.1922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.0813	0.1285	2.1000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	18.1281	18.1281	9.9000e-004	0.0000	18.1528
<b>Total</b>	<b>2.2044</b>	<b>0.0813</b>	<b>0.1285</b>	<b>2.1000e-004</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>		<b>3.6600e-003</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>18.1281</b>	<b>18.1281</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>18.1528</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0221	0.0135	0.2249	7.8000e-004	0.1068	4.6000e-004	0.1072	0.0284	4.2000e-004	0.0288	0.0000	74.9032	74.9032	1.3100e-003	1.5600e-003	75.4009
<b>Total</b>	<b>0.0221</b>	<b>0.0135</b>	<b>0.2249</b>	<b>7.8000e-004</b>	<b>0.1068</b>	<b>4.6000e-004</b>	<b>0.1072</b>	<b>0.0284</b>	<b>4.2000e-004</b>	<b>0.0288</b>	<b>0.0000</b>	<b>74.9032</b>	<b>74.9032</b>	<b>1.3100e-003</b>	<b>1.5600e-003</b>	<b>75.4009</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Phase 2 Construction - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	tons/yr								MT/yr							
Archit. Coating	2.1922					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	3.8700e-003	0.0753	0.1301	2.1000e-004		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	18.1281	18.1281	9.9000e-004	0.0000	18.1528
<b>Total</b>	<b>2.1961</b>	<b>0.0753</b>	<b>0.1301</b>	<b>2.1000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>18.1281</b>	<b>18.1281</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>18.1528</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0221	0.0135	0.2249	7.8000e-004	0.0985	4.6000e-004	0.0989	0.0263	4.2000e-004	0.0267	0.0000	74.9032	74.9032	1.3100e-003	1.5600e-003	75.4009
<b>Total</b>	<b>0.0221</b>	<b>0.0135</b>	<b>0.2249</b>	<b>7.8000e-004</b>	<b>0.0985</b>	<b>4.6000e-004</b>	<b>0.0989</b>	<b>0.0263</b>	<b>4.2000e-004</b>	<b>0.0267</b>	<b>0.0000</b>	<b>74.9032</b>	<b>74.9032</b>	<b>1.3100e-003</b>	<b>1.5600e-003</b>	<b>75.4009</b>

**Phase 2 Construction - Mitigated Tier 4 Interim**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.06	-0.00	0.00	0.82	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.27	0.08	-0.05	0.00	0.75	0.74	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading	0.64	0.30	-0.38	0.00	0.91	0.90	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	0.45	-0.01	-0.05	0.00	0.90	0.89	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.58	-0.17	-0.18	0.00	0.91	0.90	0.00	0.00	0.00	0.00	0.00	0.00
Rough Grading	0.64	0.30	-0.38	0.00	0.91	0.90	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.72	0.54	-0.25	0.00	0.95	0.94	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	0.67	-0.12	-0.14	0.00	0.93	0.92	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 4 Interim	1	1	No Change	0.00
Cranes	Diesel	Tier 4 Interim	1	1	No Change	0.00
Excavators	Diesel	Tier 4 Interim	6	6	No Change	0.00
Forklifts	Diesel	Tier 4 Interim	3	3	No Change	0.00
Generator Sets	Diesel	Tier 4 Interim	1	1	No Change	0.00
Graders	Diesel	Tier 4 Interim	2	2	No Change	0.00
Pavers	Diesel	Tier 4 Interim	2	2	No Change	0.00
Paving Equipment	Diesel	Tier 4 Interim	2	2	No Change	0.00
Rollers	Diesel	Tier 4 Interim	2	2	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Interim	5	5	No Change	0.00
Scrapers	Diesel	Tier 4 Interim	4	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	12	12	No Change	0.00
Trenchers	Diesel	Tier 4 Interim	1	1	No Change	0.00

**Phase 2 Construction - Mitigated Tier 4 Interim**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Welders	Diesel	Tier 4 Interim	1	No Change	0.00
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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Air Compressors	1.21300E-002	8.13300E-002	1.28450E-001	2.10000E-004	3.66000E-003	3.66000E-003	0.00000E+000	1.81281E+001	1.81281E+001	9.90000E-004	0.00000E+000	1.81528E+001
Cranes	5.78900E-002	5.86270E-001	3.21350E-001	1.07000E-003	2.49200E-002	2.29300E-002	0.00000E+000	9.38190E+001	9.38190E+001	3.03400E-002	0.00000E+000	9.45776E+001
Excavators	6.70100E-002	4.89880E-001	1.30701E+000	2.07000E-003	2.40200E-002	2.21000E-002	0.00000E+000	1.82013E+002	1.82013E+002	5.88700E-002	0.00000E+000	1.83485E+002
Forklifts	5.51300E-002	5.19360E-001	7.19370E-001	9.70000E-004	2.78000E-002	2.55800E-002	0.00000E+000	8.52078E+001	8.52078E+001	2.75600E-002	0.00000E+000	8.58968E+001
Generator Sets	5.63400E-002	5.06640E-001	7.73980E-001	1.39000E-003	2.01700E-002	2.01700E-002	0.00000E+000	1.19541E+002	1.19541E+002	4.42000E-003	0.00000E+000	1.19652E+002
Graders	4.35500E-002	4.83940E-001	2.23180E-001	9.30000E-004	1.55800E-002	1.43300E-002	0.00000E+000	8.13142E+001	8.13142E+001	2.63000E-002	0.00000E+000	8.19717E+001
Pavers	2.48500E-002	2.26380E-001	4.14100E-001	6.70000E-004	1.06000E-002	9.75000E-003	0.00000E+000	5.90251E+001	5.90251E+001	1.90900E-002	0.00000E+000	5.95024E+001
Paving Equipment	2.09900E-002	1.80850E-001	3.64150E-001	5.80000E-004	8.94000E-003	8.23000E-003	0.00000E+000	5.11538E+001	5.11538E+001	1.65400E-002	0.00000E+000	5.15674E+001
Rollers	1.95800E-002	2.06350E-001	2.64080E-001	3.80000E-004	1.03800E-002	9.55000E-003	0.00000E+000	3.29588E+001	3.29588E+001	1.06600E-002	0.00000E+000	3.32253E+001
Rubber Tired Dozers	1.63430E-001	1.67379E+000	7.47640E-001	2.09000E-003	7.41500E-002	6.82200E-002	0.00000E+000	1.83802E+002	1.83802E+002	5.94500E-002	0.00000E+000	1.85288E+002
Scrapers	1.88100E-001	1.78382E+000	1.50657E+000	4.25000E-003	7.02100E-002	6.46000E-002	0.00000E+000	3.72927E+002	3.72927E+002	1.20610E-001	0.00000E+000	3.75942E+002
Tractors/Loaders/B Backhoes	1.39720E-001	1.41103E+000	2.33231E+000	3.26000E-003	5.82000E-002	5.35500E-002	0.00000E+000	2.86505E+002	2.86505E+002	9.26600E-002	0.00000E+000	2.88822E+002
Trenchers	1.90000E-002	1.78070E-001	1.55400E-001	2.00000E-004	1.18600E-002	1.09100E-002	0.00000E+000	1.79662E+001	1.79662E+001	5.81000E-003	0.00000E+000	1.81115E+001
Welders	4.64800E-002	2.83840E-001	3.49320E-001	5.40000E-004	8.65000E-003	8.65000E-003	0.00000E+000	3.98087E+001	3.98087E+001	3.78000E-003	0.00000E+000	3.99032E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Air Compressors	3.87000E-003	7.52500E-002	1.30100E-001	2.10000E-004	2.80000E-004	2.80000E-004	0.00000E+000	1.81281E+001	1.81281E+001	9.90000E-004	0.00000E+000	1.81528E+001
Cranes	1.74900E-002	2.82060E-001	5.68490E-001	1.07000E-003	1.75000E-003	1.75000E-003	0.00000E+000	9.38189E+001	9.38189E+001	3.03400E-002	0.00000E+000	9.45775E+001
Excavators	2.54800E-002	9.12950E-001	1.57112E+000	2.07000E-003	3.40000E-003	3.40000E-003	0.00000E+000	1.82013E+002	1.82013E+002	5.88700E-002	0.00000E+000	1.83485E+002
Forklifts	2.19100E-002	4.26270E-001	7.37020E-001	9.70000E-004	1.59000E-003	1.59000E-003	0.00000E+000	8.52077E+001	8.52077E+001	2.75600E-002	0.00000E+000	8.58967E+001
Generator Sets	2.55100E-002	4.96200E-001	8.57920E-001	1.39000E-003	1.85000E-003	1.85000E-003	0.00000E+000	1.19541E+002	1.19541E+002	4.42000E-003	0.00000E+000	1.19652E+002
Graders	1.51400E-002	2.44210E-001	4.92210E-001	9.30000E-004	1.51000E-003	1.51000E-003	0.00000E+000	8.13141E+001	8.13141E+001	2.63000E-002	0.00000E+000	8.19716E+001
Pavers	8.26000E-003	2.96070E-001	5.09510E-001	6.70000E-004	1.10000E-003	1.10000E-003	0.00000E+000	5.90250E+001	5.90250E+001	1.90900E-002	0.00000E+000	5.95023E+001
Paving Equipment	7.19000E-003	2.57680E-001	4.43440E-001	5.80000E-004	9.60000E-004	9.60000E-004	0.00000E+000	5.11537E+001	5.11537E+001	1.65400E-002	0.00000E+000	5.15673E+001

**Phase 2 Construction - Mitigated Tier 4 Interim**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Rollers	8.43000E-003	1.64080E-001	2.83680E-001	3.80000E-004	6.10000E-004	6.10000E-004	0.00000E+000	3.29588E+001	3.29588E+001	1.06600E-002	0.00000E+000	3.32253E+001
Rubber Tired Dozers	3.41500E-002	5.50730E-001	1.10999E+000	2.09000E-003	3.42000E-003	3.42000E-003	0.00000E+000	1.83802E+002	1.83802E+002	5.94500E-002	0.00000E+000	1.85288E+002
Scrapers	6.96000E-002	1.12222E+000	2.26184E+000	4.25000E-003	6.96000E-003	6.96000E-003	0.00000E+000	3.72926E+002	3.72926E+002	1.20610E-001	0.00000E+000	3.75941E+002
Tractors/Loaders/Bac khoes	7.28100E-002	1.41649E+000	2.44907E+000	3.26000E-003	5.30000E-003	5.30000E-003	0.00000E+000	2.86505E+002	2.86505E+002	9.26600E-002	0.00000E+000	2.88821E+002
Trenchers	4.58000E-003	8.90500E-002	1.53970E-001	2.00000E-004	3.30000E-004	3.30000E-004	0.00000E+000	1.79662E+001	1.79662E+001	5.81000E-003	0.00000E+000	1.81115E+001
Welders	9.27000E-003	3.51330E-001	3.16580E-001	5.40000E-004	9.88000E-003	9.88000E-003	0.00000E+000	3.98086E+001	3.98086E+001	3.78000E-003	0.00000E+000	3.99032E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	6.80956E-001	7.47572E-002	-1.28455E-002	0.00000E+000	9.23497E-001	9.23497E-001	0.00000E+000	1.10326E-006	1.10326E-006	0.00000E+000	0.00000E+000	1.10176E-006
Cranes	6.97875E-001	5.18891E-001	-7.69068E-001	0.00000E+000	9.29775E-001	9.23681E-001	0.00000E+000	1.17247E-006	1.17247E-006	0.00000E+000	0.00000E+000	1.26880E-006
Excavators	6.19758E-001	-8.63620E-001	-2.02072E-001	0.00000E+000	8.58451E-001	8.46154E-001	0.00000E+000	1.20870E-006	1.20870E-006	0.00000E+000	0.00000E+000	1.19901E-006
Forklifts	6.02576E-001	1.79240E-001	-2.45354E-002	0.00000E+000	9.42806E-001	9.37842E-001	0.00000E+000	1.17360E-006	1.17360E-006	0.00000E+000	0.00000E+000	1.28061E-006
Generator Sets	5.47213E-001	2.06063E-002	-1.08452E-001	0.00000E+000	9.08280E-001	9.08280E-001	0.00000E+000	1.25480E-006	1.25480E-006	0.00000E+000	0.00000E+000	1.17006E-006
Graders	6.52354E-001	4.95371E-001	-1.20544E+000	0.00000E+000	9.03081E-001	8.94627E-001	0.00000E+000	1.22980E-006	1.22980E-006	0.00000E+000	0.00000E+000	1.21993E-006
Pavers	6.67606E-001	-3.07845E-001	-2.30403E-001	0.00000E+000	8.96226E-001	8.87179E-001	0.00000E+000	1.18594E-006	1.18594E-006	0.00000E+000	0.00000E+000	1.17642E-006
Paving Equipment	6.57456E-001	-4.24827E-001	-2.17740E-001	0.00000E+000	8.92617E-001	8.83354E-001	0.00000E+000	1.17293E-006	1.17293E-006	0.00000E+000	0.00000E+000	1.16353E-006
Rollers	5.69459E-001	2.04846E-001	-7.42199E-002	0.00000E+000	9.41233E-001	9.36126E-001	0.00000E+000	1.21364E-006	1.21364E-006	0.00000E+000	0.00000E+000	1.20390E-006
Rubber Tired Dozers	7.91042E-001	6.70968E-001	-4.84658E-001	0.00000E+000	9.53877E-001	9.49868E-001	0.00000E+000	1.19694E-006	1.19694E-006	0.00000E+000	0.00000E+000	1.18734E-006
Scrapers	6.29984E-001	3.70889E-001	-5.01318E-001	0.00000E+000	9.00869E-001	8.92260E-001	0.00000E+000	1.20667E-006	1.20667E-006	0.00000E+000	0.00000E+000	1.19699E-006
Tractors/Loaders/Bac khoes	4.78886E-001	-3.86951E-003	-5.00620E-002	0.00000E+000	9.08935E-001	9.01027E-001	0.00000E+000	1.18672E-006	1.18672E-006	0.00000E+000	0.00000E+000	1.17720E-006
Trenchers	7.58947E-001	4.99916E-001	9.20206E-003	0.00000E+000	9.72175E-001	9.69753E-001	0.00000E+000	1.11320E-006	1.11320E-006	0.00000E+000	0.00000E+000	1.10427E-006
Welders	8.00559E-001	-2.37775E-001	9.37250E-002	0.00000E+000	-1.42197E-001	-1.42197E-001	0.00000E+000	1.00481E-006	1.00481E-006	0.00000E+000	0.00000E+000	1.25303E-006

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	

**Phase 2 Construction - Mitigated Tier 4 Interim**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.11	0.03	0.10	0.03	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	1.82	0.49	1.69	0.46	0.08	0.07
Fine Grading	Fugitive Dust	0.65	0.26	0.28	0.11	0.57	0.57
Fine Grading	Roads	0.02	0.01	0.02	0.01	0.07	0.07
Finishing/Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Rough Grading	Fugitive Dust	0.64	0.25	0.27	0.11	0.57	0.57
Rough Grading	Roads	0.02	0.01	0.02	0.01	0.07	0.07
Site Preparation	Fugitive Dust	0.74	0.36	0.32	0.15	0.57	0.57
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.07	0.07
Utility Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	Roads	0.01	0.00	0.00	0.00	0.08	0.07



# CalEEMod Output: Western Remediation Construction – Mitigated

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Western Remediation Area - Mitigated Tier 4 - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Western Remediation Area - Mitigated Tier 4  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	94.90	Acre	94.90	4,133,844.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2023

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on an overall duration of 1 month.

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Grading -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Western Remediation Area - Mitigated Tier 4 - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	155.00	17.00
tblConstructionPhase	NumDays	60.00	6.00
tblGrading	MaterialExported	0.00	18,157.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.1044	89.0363	44.6782	0.3422	19.9605	1.8120	21.2304	10.1853	1.6812	11.3537	0.0000	37,925.0350	37,925.0350	5.1805	5.0832	39,569.3327
Maximum	4.1044	89.0363	44.6782	0.3422	19.9605	1.8120	21.2304	10.1853	1.6812	11.3537	0.0000	37,925.0350	37,925.0350	5.1805	5.0832	39,569.3327

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.7937	73.7914	53.3496	0.3422	12.5129	0.4890	13.0019	4.3961	0.4722	4.4619	0.0000	37,925.0350	37,925.0350	5.1805	5.0832	39,569.3327

Western Remediation Area - Mitigated Tier 4 - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Maximum	1.7937	73.7914	53.3496	0.3422	12.5129	0.4890	13.0019	4.3961	0.4722	4.4619	0.0000	37,925.0350	37,925.0350	5.1805	5.0832	39,569.3327
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	56.30	17.12	-19.41	0.00	37.31	73.01	38.76	56.84	71.91	60.70	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	8/8/2023	5	6	
2	Grading	Grading	8/9/2023	8/31/2023	5	17	

**Acres of Grading (Site Preparation Phase): 9**

**Acres of Grading (Grading Phase): 51**

**Acres of Paving: 94.9**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

Western Remediation Area - Mitigated Tier 4 - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	32.00	2,270.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Western Remediation Area - Mitigated Tier 4 - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0162	0.5607	0.2325	2.8800e-003	0.1023	2.8800e-003	0.1052	0.0294	2.7500e-003	0.0322		315.9190	315.9190	0.0188	0.0453	329.8970
Worker	0.0507	0.0325	0.5512	1.7000e-003	0.2012	1.0300e-003	0.2022	0.0534	9.5000e-004	0.0543		173.7559	173.7559	3.7700e-003	3.7100e-003	174.9549
<b>Total</b>	<b>0.0669</b>	<b>0.5932</b>	<b>0.7837</b>	<b>4.5800e-003</b>	<b>0.3035</b>	<b>3.9100e-003</b>	<b>0.3074</b>	<b>0.0828</b>	<b>3.7000e-003</b>	<b>0.0865</b>		<b>489.6749</b>	<b>489.6749</b>	<b>0.0226</b>	<b>0.0490</b>	<b>504.8520</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0381</b>	<b>8.4034</b>	<b>0.0621</b>	<b>8.4655</b>	<b>4.3188</b>	<b>0.0621</b>	<b>4.3809</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0162	0.5607	0.2325	2.8800e-003	0.0957	2.8800e-003	0.0986	0.0278	2.7500e-003	0.0306		315.9190	315.9190	0.0188	0.0453	329.8970
Worker	0.0507	0.0325	0.5512	1.7000e-003	0.1855	1.0300e-003	0.1865	0.0495	9.5000e-004	0.0504		173.7559	173.7559	3.7700e-003	3.7100e-003	174.9549
<b>Total</b>	<b>0.0669</b>	<b>0.5932</b>	<b>0.7837</b>	<b>4.5800e-003</b>	<b>0.2812</b>	<b>3.9100e-003</b>	<b>0.2851</b>	<b>0.0773</b>	<b>3.7000e-003</b>	<b>0.0810</b>		<b>489.6749</b>	<b>489.6749</b>	<b>0.0226</b>	<b>0.0490</b>	<b>504.8520</b>

Western Remediation Area - Mitigated Tier 4 - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2023**  
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3244	0.0000	9.3244	3.6721	0.0000	3.6721			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>9.3244</b>	<b>1.4245</b>	<b>10.7489</b>	<b>3.6721</b>	<b>1.3105</b>	<b>4.9826</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6940	53.3632	15.5496	0.2725	8.7250	0.3806	9.1056	2.3886	0.3641	2.7527		31,088.6572	31,088.6572	3.1945	4.9884	32,655.0607
Vendor	0.0323	1.1215	0.4650	5.7500e-003	0.2046	5.7500e-003	0.2104	0.0589	5.5000e-003	0.0644		631.8380	631.8380	0.0376	0.0907	659.7941
Worker	0.0564	0.0361	0.6124	1.8900e-003	0.2236	1.1400e-003	0.2247	0.0593	1.0500e-003	0.0603		193.0621	193.0621	4.1900e-003	4.1200e-003	194.3944
<b>Total</b>	<b>0.7827</b>	<b>54.5207</b>	<b>16.6270</b>	<b>0.2801</b>	<b>9.1532</b>	<b>0.3875</b>	<b>9.5407</b>	<b>2.5068</b>	<b>0.3707</b>	<b>2.8775</b>		<b>31,913.5573</b>	<b>31,913.5573</b>	<b>3.2363</b>	<b>5.0832</b>	<b>33,509.2492</b>



Western Remediation Area - Mitigated Tier 4 - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9862	0.0000	3.9862	1.5698	0.0000	1.5698			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>1.0110</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>3.9862</b>	<b>0.1015</b>	<b>4.0877</b>	<b>1.5698</b>	<b>0.1015</b>	<b>1.6713</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6940	53.3632	15.5496	0.2725	8.1292	0.3806	8.5098	2.2424	0.3641	2.6065		31,088.657 2	31,088.657 2	3.1945	4.9884	32,655.060 7
Vendor	0.0323	1.1215	0.4650	5.7500e-003	0.1915	5.7500e-003	0.1972	0.0557	5.5000e-003	0.0612		631.8380	631.8380	0.0376	0.0907	659.7941
Worker	0.0564	0.0361	0.6124	1.8900e-003	0.2061	1.1400e-003	0.2072	0.0550	1.0500e-003	0.0561		193.0621	193.0621	4.1900e-003	4.1200e-003	194.3944
<b>Total</b>	<b>0.7827</b>	<b>54.5207</b>	<b>16.6270</b>	<b>0.2801</b>	<b>8.5267</b>	<b>0.3875</b>	<b>8.9142</b>	<b>2.3530</b>	<b>0.3707</b>	<b>2.7237</b>		<b>31,913.557 3</b>	<b>31,913.557 3</b>	<b>3.2363</b>	<b>5.0832</b>	<b>33,509.249 2</b>

Western Remediation Area - Mitigated Tier 4 - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Western Remediation Area - Mitigated Tier 4**  
**Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	94.90	Acre	94.90	4,133,844.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2023

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on an overall duration of 1 month.

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Grading -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Western Remediation Area - Mitigated Tier 4 - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	155.00	17.00
tblConstructionPhase	NumDays	60.00	6.00
tblGrading	MaterialExported	0.00	18,157.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.0921	91.1920	44.7005	0.3422	19.9605	1.8123	21.2305	10.1853	1.6815	11.3537	0.0000	37,924.4355	37,924.4355	5.1795	5.0850	39,569.2640
Maximum	4.0921	91.1920	44.7005	0.3422	19.9605	1.8123	21.2305	10.1853	1.6815	11.3537	0.0000	37,924.4355	37,924.4355	5.1795	5.0850	39,569.2640

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.7814	75.9471	53.3720	0.3422	12.5129	0.4893	13.0023	4.3961	0.4725	4.4619	0.0000	37,924.4355	37,924.4355	5.1795	5.0850	39,569.2640

Western Remediation Area - Mitigated Tier 4 - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Maximum	1.7814	75.9471	53.3720	0.3422	12.5129	0.4893	13.0023	4.3961	0.4725	4.4619	0.0000	37,924.4355	37,924.4355	5.1795	5.0850	39,569.2640
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	56.47	16.72	-19.40	0.00	37.31	73.00	38.76	56.84	71.90	60.70	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	8/8/2023	5	6	
2	Grading	Grading	8/9/2023	8/31/2023	5	17	

**Acres of Grading (Site Preparation Phase): 9**

**Acres of Grading (Grading Phase): 51**

**Acres of Paving: 94.9**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

Western Remediation Area - Mitigated Tier 4 - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	32.00	2,270.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2023**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Western Remediation Area - Mitigated Tier 4 - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0156	0.5857	0.2399	2.8800e-003	0.1023	2.9000e-003	0.1052	0.0294	2.7700e-003	0.0322		316.3837	316.3837	0.0187	0.0454	330.3911
Worker	0.0554	0.0356	0.5135	1.6200e-003	0.2012	1.0300e-003	0.2022	0.0534	9.5000e-004	0.0543		165.4482	165.4482	3.8600e-003	3.9400e-003	166.7201
<b>Total</b>	<b>0.0710</b>	<b>0.6214</b>	<b>0.7534</b>	<b>4.5000e-003</b>	<b>0.3035</b>	<b>3.9300e-003</b>	<b>0.3074</b>	<b>0.0828</b>	<b>3.7200e-003</b>	<b>0.0865</b>		<b>481.8318</b>	<b>481.8318</b>	<b>0.0226</b>	<b>0.0494</b>	<b>497.1112</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0381</b>	<b>8.4034</b>	<b>0.0621</b>	<b>8.4655</b>	<b>4.3188</b>	<b>0.0621</b>	<b>4.3809</b>	<b>0.0000</b>	<b>3,687.3081</b>	<b>3,687.3081</b>	<b>1.1926</b>		<b>3,717.1219</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0156	0.5857	0.2399	2.8800e-003	0.0957	2.9000e-003	0.0986	0.0278	2.7700e-003	0.0306		316.3837	316.3837	0.0187	0.0454	330.3911
Worker	0.0554	0.0356	0.5135	1.6200e-003	0.1855	1.0300e-003	0.1865	0.0495	9.5000e-004	0.0504		165.4482	165.4482	3.8600e-003	3.9400e-003	166.7201
<b>Total</b>	<b>0.0710</b>	<b>0.6214</b>	<b>0.7534</b>	<b>4.5000e-003</b>	<b>0.2812</b>	<b>3.9300e-003</b>	<b>0.2851</b>	<b>0.0773</b>	<b>3.7200e-003</b>	<b>0.0810</b>		<b>481.8318</b>	<b>481.8318</b>	<b>0.0226</b>	<b>0.0494</b>	<b>497.1112</b>

Western Remediation Area - Mitigated Tier 4 - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2023**  
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3244	0.0000	9.3244	3.6721	0.0000	3.6721			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>9.3244</b>	<b>1.4245</b>	<b>10.7489</b>	<b>3.6721</b>	<b>1.3105</b>	<b>4.9826</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6776	55.4653	15.5991	0.2725	8.7250	0.3809	9.1059	2.3886	0.3644	2.7530		31,096.3591	31,096.3591	3.1935	4.9898	32,663.1536
Vendor	0.0312	1.1715	0.4798	5.7600e-003	0.2046	5.7900e-003	0.2104	0.0589	5.5400e-003	0.0644		632.7673	632.7673	0.0375	0.0909	660.7823
Worker	0.0616	0.0396	0.5705	1.8000e-003	0.2236	1.1400e-003	0.2247	0.0593	1.0500e-003	0.0603		183.8313	183.8313	4.2900e-003	4.3800e-003	185.2446
<b>Total</b>	<b>0.7704</b>	<b>56.6764</b>	<b>16.6494</b>	<b>0.2801</b>	<b>9.1532</b>	<b>0.3878</b>	<b>9.5410</b>	<b>2.5068</b>	<b>0.3710</b>	<b>2.8778</b>		<b>31,912.9577</b>	<b>31,912.9577</b>	<b>3.2352</b>	<b>5.0850</b>	<b>33,509.1804</b>

Western Remediation Area - Mitigated Tier 4 - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9862	0.0000	3.9862	1.5698	0.0000	1.5698			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>1.0110</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>3.9862</b>	<b>0.1015</b>	<b>4.0877</b>	<b>1.5698</b>	<b>0.1015</b>	<b>1.6713</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6776	55.4653	15.5991	0.2725	8.1292	0.3809	8.5101	2.2424	0.3644	2.6068		31,096.3591	31,096.3591	3.1935	4.9898	32,663.1536
Vendor	0.0312	1.1715	0.4798	5.7600e-003	0.1915	5.7900e-003	0.1973	0.0557	5.5400e-003	0.0612		632.7673	632.7673	0.0375	0.0909	660.7823
Worker	0.0616	0.0396	0.5705	1.8000e-003	0.2061	1.1400e-003	0.2072	0.0550	1.0500e-003	0.0561		183.8313	183.8313	4.2900e-003	4.3800e-003	185.2446
<b>Total</b>	<b>0.7704</b>	<b>56.6764</b>	<b>16.6494</b>	<b>0.2801</b>	<b>8.5267</b>	<b>0.3878</b>	<b>8.9145</b>	<b>2.3530</b>	<b>0.3710</b>	<b>2.7240</b>		<b>31,912.9577</b>	<b>31,912.9577</b>	<b>3.2352</b>	<b>5.0850</b>	<b>33,509.1804</b>



Western Remediation Area - Mitigated Tier 4 - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Western Remediation Area - Mitigated Tier 4**  
**Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	94.90	Acre	94.90	4,133,844.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2023

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on an overall duration of 1 month.

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Grading -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Western Remediation Area - Mitigated Tier 4 - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	155.00	17.00
tblConstructionPhase	NumDays	60.00	6.00
tblGrading	MaterialExported	0.00	18,157.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0430	0.8666	0.4367	3.0400e-003	0.2157	0.0192	0.2349	0.0828	0.0178	0.1006	0.0000	303.7705	303.7705	0.0433	0.0393	316.5752
Maximum	0.0430	0.8666	0.4367	3.0400e-003	0.2157	0.0192	0.2349	0.0828	0.0178	0.1006	0.0000	303.7705	303.7705	0.0433	0.0393	316.5752

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0175	0.6909	0.5246	3.0400e-003	0.1313	4.3600e-003	0.1357	0.0463	4.2100e-003	0.0505	0.0000	303.7704	303.7704	0.0433	0.0393	316.5751

Western Remediation Area - Mitigated Tier 4 - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Maximum	0.0175	0.6909	0.5246	3.0400e-003	0.1313	4.3600e-003	0.1357	0.0463	4.2100e-003	0.0505	0.0000	303.7704	303.7704	0.0433	0.0393	316.5751
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	59.37	20.27	-20.12	0.00	39.14	77.30	42.26	44.11	76.35	49.82	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2023	9-30-2023	0.8532	0.6595
		Highest	0.8532	0.6595

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2023	8/8/2023	5	6	
2	Grading	Grading	8/9/2023	8/31/2023	5	17	

Acres of Grading (Site Preparation Phase): 9

Acres of Grading (Grading Phase): 51

Acres of Paving: 94.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Western Remediation Area - Mitigated Tier 4 - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	32.00	2,270.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0590	0.0000	0.0590	0.0303	0.0000	0.0303	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9800e-003	0.0826	0.0547	1.1000e-004		3.8000e-003	3.8000e-003		3.4900e-003	3.4900e-003	0.0000	10.0352	10.0352	3.2500e-003	0.0000	10.1164
<b>Total</b>	<b>7.9800e-003</b>	<b>0.0826</b>	<b>0.0547</b>	<b>1.1000e-004</b>	<b>0.0590</b>	<b>3.8000e-003</b>	<b>0.0628</b>	<b>0.0303</b>	<b>3.4900e-003</b>	<b>0.0338</b>	<b>0.0000</b>	<b>10.0352</b>	<b>10.0352</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>10.1164</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Western Remediation Area - Mitigated Tier 4 - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.7600e-003	7.1000e-004	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8603	0.8603	5.0000e-005	1.2000e-004	0.8984
Worker	1.5000e-004	1.1000e-004	1.5800e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4564	0.4564	1.0000e-005	1.0000e-005	0.4599
<b>Total</b>	<b>2.0000e-004</b>	<b>1.8700e-003</b>	<b>2.2900e-003</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>1.0000e-005</b>	<b>9.1000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.3167</b>	<b>1.3167</b>	<b>6.0000e-005</b>	<b>1.3000e-004</b>	<b>1.3583</b>

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0252	0.0000	0.0252	0.0130	0.0000	0.0130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0900e-003	0.0365	0.0689	1.1000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	10.0352	10.0352	3.2500e-003	0.0000	10.1163
<b>Total</b>	<b>2.0900e-003</b>	<b>0.0365</b>	<b>0.0689</b>	<b>1.1000e-004</b>	<b>0.0252</b>	<b>1.9000e-004</b>	<b>0.0254</b>	<b>0.0130</b>	<b>1.9000e-004</b>	<b>0.0132</b>	<b>0.0000</b>	<b>10.0352</b>	<b>10.0352</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>10.1163</b>

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.7600e-003	7.1000e-004	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.8603	0.8603	5.0000e-005	1.2000e-004	0.8984

Western Remediation Area - Mitigated Tier 4 - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Worker	1.5000e-004	1.1000e-004	1.5800e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4564	0.4564	1.0000e-005	1.0000e-005	0.4599
<b>Total</b>	<b>2.0000e-004</b>	<b>1.8700e-003</b>	<b>2.2900e-003</b>	<b>1.0000e-005</b>	<b>8.3000e-004</b>	<b>1.0000e-005</b>	<b>8.4000e-004</b>	<b>2.3000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>1.3167</b>	<b>1.3167</b>	<b>6.0000e-005</b>	<b>1.3000e-004</b>	<b>1.3583</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0793	0.0000	0.0793	0.0312	0.0000	0.0312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2934	0.2384	5.3000e-004		0.0121	0.0121		0.0111	0.0111	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
<b>Total</b>	<b>0.0282</b>	<b>0.2934</b>	<b>0.2384</b>	<b>5.3000e-004</b>	<b>0.0793</b>	<b>0.0121</b>	<b>0.0914</b>	<b>0.0312</b>	<b>0.0111</b>	<b>0.0424</b>	<b>0.0000</b>	<b>46.3549</b>	<b>46.3549</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7297</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8400e-003	0.4784	0.1323	2.3200e-003	0.0730	3.2400e-003	0.0762	0.0200	3.1000e-003	0.0231	0.0000	239.7517	239.7517	0.0246	0.0385	251.8320
Vendor	2.7000e-004	9.9900e-003	4.0100e-003	5.0000e-005	1.7100e-003	5.0000e-005	1.7600e-003	4.9000e-004	5.0000e-005	5.4000e-004	0.0000	4.8752	4.8752	2.9000e-004	7.0000e-004	5.0910
Worker	4.8000e-004	3.4000e-004	4.9600e-003	2.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.0000e-004	0.0000	1.4367	1.4367	3.0000e-005	3.0000e-005	1.4478
<b>Total</b>	<b>6.5900e-003</b>	<b>0.4887</b>	<b>0.1413</b>	<b>2.3900e-003</b>	<b>0.0766</b>	<b>3.3000e-003</b>	<b>0.0799</b>	<b>0.0210</b>	<b>3.1600e-003</b>	<b>0.0242</b>	<b>0.0000</b>	<b>246.0636</b>	<b>246.0636</b>	<b>0.0250</b>	<b>0.0392</b>	<b>258.3708</b>

Western Remediation Area - Mitigated Tier 4 - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0339	0.0000	0.0339	0.0133	0.0000	0.0133	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5900e-003	0.1638	0.3121	5.3000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	46.3549	46.3549	0.0150	0.0000	46.7297
<b>Total</b>	<b>8.5900e-003</b>	<b>0.1638</b>	<b>0.3121</b>	<b>5.3000e-004</b>	<b>0.0339</b>	<b>8.6000e-004</b>	<b>0.0347</b>	<b>0.0133</b>	<b>8.6000e-004</b>	<b>0.0142</b>	<b>0.0000</b>	<b>46.3549</b>	<b>46.3549</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7297</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8400e-003	0.4784	0.1323	2.3200e-003	0.0681	3.2400e-003	0.0713	0.0188	3.1000e-003	0.0219	0.0000	239.7517	239.7517	0.0246	0.0385	251.8320
Vendor	2.7000e-004	9.9900e-003	4.0100e-003	5.0000e-005	1.6000e-003	5.0000e-005	1.6500e-003	4.7000e-004	5.0000e-005	5.1000e-004	0.0000	4.8752	4.8752	2.9000e-004	7.0000e-004	5.0910
Worker	4.8000e-004	3.4000e-004	4.9600e-003	2.0000e-005	1.7200e-003	1.0000e-005	1.7300e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4367	1.4367	3.0000e-005	3.0000e-005	1.4478
<b>Total</b>	<b>6.5900e-003</b>	<b>0.4887</b>	<b>0.1413</b>	<b>2.3900e-003</b>	<b>0.0714</b>	<b>3.3000e-003</b>	<b>0.0747</b>	<b>0.0197</b>	<b>3.1600e-003</b>	<b>0.0229</b>	<b>0.0000</b>	<b>246.0636</b>	<b>246.0636</b>	<b>0.0250</b>	<b>0.0392</b>	<b>258.3708</b>

**Western Remediation Area - Mitigated Tier 4**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Grading	0.56	0.17	-0.19	0.00	0.73	0.72	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.72	0.55	-0.25	0.00	0.95	0.94	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Excavators	Diesel	Tier 4 Interim	2	2	No Change	0.00
Graders	Diesel	Tier 4 Interim	1	1	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Interim	4	4	No Change	0.00
Scrapers	Diesel	Tier 4 Interim	2	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	6	6	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Excavators	3.21000E-003	2.63300E-002	5.53800E-002	9.00000E-005	1.29000E-003	1.19000E-003	0.00000E+000	7.71270E+000	7.71270E+000	2.49000E-003	0.00000E+000	7.77506E+000
Graders	3.26000E-003	3.95500E-002	1.43900E-002	6.00000E-005	1.28000E-003	1.18000E-003	0.00000E+000	4.94168E+000	4.94168E+000	1.60000E-003	0.00000E+000	4.98164E+000
Rubber Tired Dozers	1.19800E-002	1.24730E-001	5.43600E-002	1.50000E-004	5.62000E-003	5.17000E-003	0.00000E+000	1.31292E+001	1.31292E+001	4.25000E-003	0.00000E+000	1.32354E+001
Scrapers	1.33800E-002	1.40820E-001	1.04330E-001	2.60000E-004	5.52000E-003	5.08000E-003	0.00000E+000	2.26725E+001	2.26725E+001	7.33000E-003	0.00000E+000	2.28559E+001
Tractors/Loaders/Backhoes	4.39000E-003	4.45300E-002	6.47100E-002	9.00000E-005	2.20000E-003	2.02000E-003	0.00000E+000	7.93398E+000	7.93398E+000	2.57000E-003	0.00000E+000	7.99813E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Excavators	1.08000E-003	3.87000E-002	6.66100E-002	9.00000E-005	1.40000E-004	1.40000E-004	0.00000E+000	7.71269E+000	7.71269E+000	2.49000E-003	0.00000E+000	7.77505E+000
Graders	9.20000E-004	1.48300E-002	2.98800E-002	6.00000E-005	9.00000E-005	9.00000E-005	0.00000E+000	4.94167E+000	4.94167E+000	1.60000E-003	0.00000E+000	4.98163E+000



**Western Remediation Area - Mitigated Tier 4**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Rubber Tired Dozers	2.44000E-003	3.93400E-002	7.92900E-002	1.50000E-004	2.40000E-004	2.40000E-004	0.00000E+000	1.31292E+001	1.31292E+001	4.25000E-003	0.00000E+000	1.32354E+001
Scrapers	4.23000E-003	6.81300E-002	1.37330E-001	2.60000E-004	4.20000E-004	4.20000E-004	0.00000E+000	2.26725E+001	2.26725E+001	7.33000E-003	0.00000E+000	2.28558E+001
Tractors/Loaders/Bac khnes	2.02000E-003	3.92800E-002	6.79200E-002	9.00000E-005	1.50000E-004	1.50000E-004	0.00000E+000	7.93397E+000	7.93397E+000	2.57000E-003	0.00000E+000	7.99812E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Excavators	6.63551E-001	-4.69806E-001	-2.02781E-001	0.00000E+000	8.91473E-001	8.82353E-001	0.00000E+000	1.29656E-006	1.29656E-006	0.00000E+000	0.00000E+000	1.28616E-006
Graders	7.17791E-001	6.25032E-001	-1.07644E+000	0.00000E+000	9.29688E-001	9.23729E-001	0.00000E+000	2.02360E-006	2.02360E-006	0.00000E+000	0.00000E+000	2.00737E-006
Rubber Tired Dozers	7.96327E-001	6.84599E-001	-4.58609E-001	0.00000E+000	9.57295E-001	9.53578E-001	0.00000E+000	7.61659E-007	7.61659E-007	0.00000E+000	0.00000E+000	1.51110E-006
Scrapers	6.83857E-001	5.16191E-001	-3.16304E-001	0.00000E+000	9.23913E-001	9.17323E-001	0.00000E+000	8.82125E-007	8.82125E-007	0.00000E+000	0.00000E+000	1.31257E-006
Tractors/Loaders/Bac khnes	5.39863E-001	1.17898E-001	-4.96059E-002	0.00000E+000	9.31818E-001	9.25743E-001	0.00000E+000	1.26040E-006	1.26040E-006	0.00000E+000	0.00000E+000	1.25029E-006

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction 5.00
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction 55.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph) 15.00
Yes	Clean Paved Road	% PM Reduction	9.00	Frequency (per day) 2.00

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Grading	Fugitive Dust	0.08	0.03	0.03	0.01	0.57	0.57
Grading	Roads	0.08	0.02	0.07	0.02	0.07	0.06
Site Preparation	Fugitive Dust	0.06	0.03	0.03	0.01	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.07	0.08

# CalEEMod Output: Eastern Remediation Construction – Mitigated

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Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Eastern Remediation Area - Mitigated Tier 4 Interim**  
**Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	167.20	Acre	167.20	7,283,232.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on total overall duration of 1 month.

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Grading -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	310.00	17.00
tblConstructionPhase	NumDays	120.00	6.00
tblGrading	MaterialExported	0.00	17,498.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.9453	84.0066	43.9414	0.3250	20.0628	1.7222	21.2992	10.2147	1.5986	11.3524	0.0000	36,051.673 1	36,051.673 1	5.0836	4.7920	37,606.779 3
Maximum	3.9453	84.0066	43.9414	0.3250	20.0628	1.7222	21.2992	10.2147	1.5986	11.3524	0.0000	36,051.673 1	36,051.673 1	5.0836	4.7920	37,606.779 3

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.7382	70.9003	52.9411	0.3250	12.1177	0.4883	12.6060	4.4240	0.4715	4.4927	0.0000	36,051.673 1	36,051.673 1	5.0836	4.7920	37,606.779 3

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Maximum	1.7382	70.9003	52.9411	0.3250	12.1177	0.4883	12.6060	4.4240	0.4715	4.4927	0.0000	36,051.673	36,051.673	5.0836	4.7920	37,606.779
												1	1			3

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	55.94	15.60	-20.48	0.00	39.60	71.65	40.81	56.69	70.50	60.42	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	10/8/2024	5	6	
2	Grading	Grading	10/9/2024	10/31/2024	5	17	

Acres of Grading (Site Preparation Phase): 9

Acres of Grading (Grading Phase): 51

Acres of Paving: 167.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	32.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	2,187.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0318	1.1182	0.4615	5.6500e-003	0.2046	6.0200e-003	0.2106	0.0589	5.7600e-003	0.0647		622.0364	622.0364	0.0380	0.0896	649.6959
Worker	0.0477	0.0292	0.5137	1.6400e-003	0.2012	9.8000e-004	0.2022	0.0534	9.0000e-004	0.0543		169.5759	169.5759	3.4200e-003	3.4700e-003	170.6946
<b>Total</b>	<b>0.0795</b>	<b>1.1473</b>	<b>0.9753</b>	<b>7.2900e-003</b>	<b>0.4058</b>	<b>7.0000e-003</b>	<b>0.4128</b>	<b>0.1123</b>	<b>6.6600e-003</b>	<b>0.1189</b>		<b>791.6122</b>	<b>791.6122</b>	<b>0.0414</b>	<b>0.0931</b>	<b>820.3905</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0381</b>	<b>8.4034</b>	<b>0.0621</b>	<b>8.4655</b>	<b>4.3188</b>	<b>0.0621</b>	<b>4.3809</b>	<b>0.0000</b>	<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0318	1.1182	0.4615	5.6500e-003	0.1915	6.0200e-003	0.1975	0.0557	5.7600e-003	0.0614		622.0364	622.0364	0.0380	0.0896	649.6959
Worker	0.0477	0.0292	0.5137	1.6400e-003	0.1855	9.8000e-004	0.1864	0.0495	9.0000e-004	0.0504		169.5759	169.5759	3.4200e-003	3.4700e-003	170.6946
<b>Total</b>	<b>0.0795</b>	<b>1.1473</b>	<b>0.9753</b>	<b>7.2900e-003</b>	<b>0.3769</b>	<b>7.0000e-003</b>	<b>0.3839</b>	<b>0.1052</b>	<b>6.6600e-003</b>	<b>0.1118</b>		<b>791.6122</b>	<b>791.6122</b>	<b>0.0414</b>	<b>0.0931</b>	<b>820.3905</b>



Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2024**  
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.3200</b>	<b>1.3354</b>	<b>10.6554</b>	<b>3.6714</b>	<b>1.2286</b>	<b>4.9000</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6583	51.0382	15.4170	0.2583	8.4056	0.3827	8.7883	2.3012	0.3661	2.6673		29,542.4886	29,542.4886	3.1171	4.7433	31,033.9302
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.1023	3.0100e-003	0.1053	0.0294	2.8800e-003	0.0323		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.7272</b>	<b>51.6296</b>	<b>16.2185</b>	<b>0.2629</b>	<b>8.7315</b>	<b>0.3868</b>	<b>9.1183</b>	<b>2.3899</b>	<b>0.3700</b>	<b>2.7599</b>		<b>30,041.9244</b>	<b>30,041.9244</b>	<b>3.1399</b>	<b>4.7920</b>	<b>31,548.4388</b>

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9843	0.0000	3.9843	1.5695	0.0000	1.5695			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>1.0110</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>3.9843</b>	<b>0.1015</b>	<b>4.0858</b>	<b>1.5695</b>	<b>0.1015</b>	<b>1.6711</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6583	51.0382	15.4170	0.2583	7.8316	0.3827	8.2143	2.1603	0.3661	2.5264		29,542.4886	29,542.4886	3.1171	4.7433	31,033.9302
Vendor	0.0159	0.5591	0.2308	2.8300e-003	0.0957	3.0100e-003	0.0988	0.0278	2.8800e-003	0.0307		311.0182	311.0182	0.0190	0.0448	324.8480
Worker	0.0530	0.0324	0.5708	1.8300e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		188.4176	188.4176	3.8000e-003	3.8500e-003	189.6606
<b>Total</b>	<b>0.7272</b>	<b>51.6296</b>	<b>16.2185</b>	<b>0.2629</b>	<b>8.1334</b>	<b>0.3868</b>	<b>8.5202</b>	<b>2.2431</b>	<b>0.3700</b>	<b>2.6131</b>		<b>30,041.9244</b>	<b>30,041.9244</b>	<b>3.1399</b>	<b>4.7920</b>	<b>31,548.4388</b>

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Eastern Remediation Area - Mitigated Tier 4 Interim**  
**Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	167.20	Acre	167.20	7,283,232.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on total overall duration of 1 month.

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Grading -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	310.00	17.00
tblConstructionPhase	NumDays	120.00	6.00
tblGrading	MaterialExported	0.00	17,498.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.9341	86.0448	43.9564	0.3250	20.0628	1.7225	21.2992	10.2147	1.5988	11.3524	0.0000	36,050.600 3	36,050.600 3	5.0826	4.7937	37,606.189 4
Maximum	3.9341	86.0448	43.9564	0.3250	20.0628	1.7225	21.2992	10.2147	1.5988	11.3524	0.0000	36,050.600 3	36,050.600 3	5.0826	4.7937	37,606.189 4

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.7269	72.9385	52.9562	0.3250	12.1177	0.4886	12.6063	4.4240	0.4718	4.4927	0.0000	36,050.600 2	36,050.600 2	5.0826	4.7937	37,606.189 4

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Maximum	1.7269	72.9385	52.9562	0.3250	12.1177	0.4886	12.6063	4.4240	0.4718	4.4927	0.0000	36,050.600 2	36,050.600 2	5.0826	4.7937	37,606.189 4
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	56.10	15.23	-20.47	0.00	39.60	71.63	40.81	56.69	70.49	60.42	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	10/8/2024	5	6	
2	Grading	Grading	10/9/2024	10/31/2024	5	17	

**Acres of Grading (Site Preparation Phase): 9**

**Acres of Grading (Grading Phase): 51**

**Acres of Paving: 167.2**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	32.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	2,187.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Vendor	0.0307	1.1681	0.4761	5.6600e-003	0.2046	6.0600e-003	0.2107	0.0589	5.7900e-003	0.0647		622.9738	622.9738	0.0379	0.0898	650.6911
Worker	0.0523	0.0320	0.4791	1.5700e-003	0.2012	9.8000e-004	0.2022	0.0534	9.0000e-004	0.0543		161.4808	161.4808	3.5100e-003	3.6900e-003	162.6674
<b>Total</b>	<b>0.0830</b>	<b>1.2002</b>	<b>0.9552</b>	<b>7.2300e-003</b>	<b>0.4058</b>	<b>7.0400e-003</b>	<b>0.4129</b>	<b>0.1123</b>	<b>6.6900e-003</b>	<b>0.1189</b>		<b>784.4546</b>	<b>784.4546</b>	<b>0.0414</b>	<b>0.0935</b>	<b>813.3585</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0381</b>	<b>8.4034</b>	<b>0.0621</b>	<b>8.4655</b>	<b>4.3188</b>	<b>0.0621</b>	<b>4.3809</b>	<b>0.0000</b>	<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0307	1.1681	0.4761	5.6600e-003	0.1915	6.0600e-003	0.1975	0.0557	5.7900e-003	0.0615		622.9738	622.9738	0.0379	0.0898	650.6911
Worker	0.0523	0.0320	0.4791	1.5700e-003	0.1855	9.8000e-004	0.1864	0.0495	9.0000e-004	0.0504		161.4808	161.4808	3.5100e-003	3.6900e-003	162.6674
<b>Total</b>	<b>0.0830</b>	<b>1.2002</b>	<b>0.9552</b>	<b>7.2300e-003</b>	<b>0.3769</b>	<b>7.0400e-003</b>	<b>0.3840</b>	<b>0.1052</b>	<b>6.6900e-003</b>	<b>0.1119</b>		<b>784.4546</b>	<b>784.4546</b>	<b>0.0414</b>	<b>0.0935</b>	<b>813.3585</b>

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2024**  
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.3200	0.0000	9.3200	3.6714	0.0000	3.6714			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.3200</b>	<b>1.3354</b>	<b>10.6554</b>	<b>3.6714</b>	<b>1.2286</b>	<b>4.9000</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6425	53.0482	15.4632	0.2583	8.4056	0.3829	8.7886	2.3012	0.3664	2.6675		29,549.9416	29,549.9416	3.1161	4.7447	31,041.7618
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.1023	3.0300e-003	0.1053	0.0294	2.9000e-003	0.0323		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2236	1.0900e-003	0.2246	0.0593	1.0000e-003	0.0603		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.7159</b>	<b>53.6678</b>	<b>16.2336</b>	<b>0.2629</b>	<b>8.7315</b>	<b>0.3871</b>	<b>9.1186</b>	<b>2.3899</b>	<b>0.3703</b>	<b>2.7602</b>		<b>30,040.8516</b>	<b>30,040.8516</b>	<b>3.1389</b>	<b>4.7937</b>	<b>31,547.8489</b>



Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9843	0.0000	3.9843	1.5695	0.0000	1.5695			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>1.0110</b>	<b>19.2707</b>	<b>36.7226</b>	<b>0.0621</b>	<b>3.9843</b>	<b>0.1015</b>	<b>4.0858</b>	<b>1.5695</b>	<b>0.1015</b>	<b>1.6711</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6425	53.0482	15.4632	0.2583	7.8316	0.3829	8.2145	2.1603	0.3664	2.5266		29,549.9416	29,549.9416	3.1161	4.7447	31,041.7618
Vendor	0.0154	0.5841	0.2380	2.8300e-003	0.0957	3.0300e-003	0.0988	0.0278	2.9000e-003	0.0307		311.4869	311.4869	0.0189	0.0449	325.3455
Worker	0.0581	0.0356	0.5323	1.7400e-003	0.2061	1.0900e-003	0.2072	0.0550	1.0000e-003	0.0560		179.4231	179.4231	3.9000e-003	4.1000e-003	180.7416
<b>Total</b>	<b>0.7159</b>	<b>53.6678</b>	<b>16.2336</b>	<b>0.2629</b>	<b>8.1334</b>	<b>0.3871</b>	<b>8.5205</b>	<b>2.2431</b>	<b>0.3703</b>	<b>2.6134</b>		<b>30,040.8516</b>	<b>30,040.8516</b>	<b>3.1389</b>	<b>4.7937</b>	<b>31,547.8489</b>

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Eastern Remediation Area - Mitigated Tier 4 Interim**  
**Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	167.20	Acre	167.20	7,283,232.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024

**Utility Company**

<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Based on total overall duration of 1 month.

Trips and VMT - See modeling assumptions file in the AQ/GHG appendix of the EIR for vendor trip details. Haul distance based on distance from the project site to the

Grading -

Construction Off-road Equipment Mitigation - Based on South Coast AQMD Rules 403 and 1186 and mitigation.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	310.00	17.00
tblConstructionPhase	NumDays	120.00	6.00
tblGrading	MaterialExported	0.00	17,498.00
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	VendorTripNumber	0.00	32.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0417	0.8232	0.4313	2.9000e-003	0.2125	0.0184	0.2308	0.0819	0.0170	0.0989	0.0000	290.1485	290.1485	0.0426	0.0372	302.3022
Maximum	0.0417	0.8232	0.4313	2.9000e-003	0.2125	0.0184	0.2308	0.0819	0.0170	0.0989	0.0000	290.1485	290.1485	0.0426	0.0372	302.3022

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0170	0.6667	0.5217	2.9000e-003	0.1283	4.3600e-003	0.1326	0.0454	4.2200e-003	0.0496	0.0000	290.1484	290.1484	0.0426	0.0372	302.3021

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Maximum	0.0170	0.6667	0.5217	2.9000e-003	0.1283	4.3600e-003	0.1326	0.0454	4.2200e-003	0.0496	0.0000	290.1484	290.1484	0.0426	0.0372	302.3021
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	59.14	19.00	-20.95	0.00	39.62	76.24	42.53	44.53	75.18	49.81	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2024	10/8/2024	5	6	
2	Grading	Grading	10/9/2024	10/31/2024	5	17	

Acres of Grading (Site Preparation Phase): 9

Acres of Grading (Grading Phase): 51

Acres of Paving: 167.2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	32.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	16.00	2,187.00	14.70	6.90	75.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0590	0.0000	0.0590	0.0303	0.0000	0.0303	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9800e-003	0.0815	0.0550	1.1000e-004		3.6900e-003	3.6900e-003		3.3900e-003	3.3900e-003	0.0000	10.0371	10.0371	3.2500e-003	0.0000	10.1183
<b>Total</b>	<b>7.9800e-003</b>	<b>0.0815</b>	<b>0.0550</b>	<b>1.1000e-004</b>	<b>0.0590</b>	<b>3.6900e-003</b>	<b>0.0627</b>	<b>0.0303</b>	<b>3.3900e-003</b>	<b>0.0337</b>	<b>0.0000</b>	<b>10.0371</b>	<b>10.0371</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>10.1183</b>

**Unmitigated Construction Off-Site**

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

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.5100e-003	1.4000e-003	2.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	1.6940	1.6940	1.0000e-004	2.4000e-004	1.7694
Worker	1.4000e-004	1.0000e-004	1.4700e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4454	0.4454	1.0000e-005	1.0000e-005	0.4487
<b>Total</b>	<b>2.3000e-004</b>	<b>3.6100e-003</b>	<b>2.8700e-003</b>	<b>2.0000e-005</b>	<b>1.1900e-003</b>	<b>2.0000e-005</b>	<b>1.2200e-003</b>	<b>3.3000e-004</b>	<b>2.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>2.1394</b>	<b>2.1394</b>	<b>1.1000e-004</b>	<b>2.5000e-004</b>	<b>2.2180</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0252	0.0000	0.0252	0.0130	0.0000	0.0130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0900e-003	0.0365	0.0689	1.1000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	10.0371	10.0371	3.2500e-003	0.0000	10.1183
<b>Total</b>	<b>2.0900e-003</b>	<b>0.0365</b>	<b>0.0689</b>	<b>1.1000e-004</b>	<b>0.0252</b>	<b>1.9000e-004</b>	<b>0.0254</b>	<b>0.0130</b>	<b>1.9000e-004</b>	<b>0.0132</b>	<b>0.0000</b>	<b>10.0371</b>	<b>10.0371</b>	<b>3.2500e-003</b>	<b>0.0000</b>	<b>10.1183</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	3.5100e-003	1.4000e-003	2.0000e-005	5.7000e-004	2.0000e-005	5.8000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	1.6940	1.6940	1.0000e-004	2.4000e-004	1.7694
Worker	1.4000e-004	1.0000e-004	1.4700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4454	0.4454	1.0000e-005	1.0000e-005	0.4487

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	2.3000e-004	3.6100e-003	2.8700e-003	2.0000e-005	1.1200e-003	2.0000e-005	1.1300e-003	3.1000e-004	2.0000e-005	3.3000e-004	0.0000	2.1394	2.1394	1.1000e-004	2.5000e-004	2.2180
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3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0792	0.0000	0.0792	0.0312	0.0000	0.0312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0274	0.2752	0.2356	5.3000e-004		0.0114	0.0114		0.0104	0.0104	0.0000	46.3416	46.3416	0.0150	0.0000	46.7163
<b>Total</b>	<b>0.0274</b>	<b>0.2752</b>	<b>0.2356</b>	<b>5.3000e-004</b>	<b>0.0792</b>	<b>0.0114</b>	<b>0.0906</b>	<b>0.0312</b>	<b>0.0104</b>	<b>0.0417</b>	<b>0.0000</b>	<b>46.3416</b>	<b>46.3416</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7163</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.5400e-003	0.4576	0.1312	2.2000e-003	0.0703	3.2500e-003	0.0736	0.0193	3.1100e-003	0.0224	0.0000	227.8283	227.8283	0.0240	0.0366	239.3305
Vendor	1.3000e-004	4.9800e-003	1.9900e-003	2.0000e-005	8.6000e-004	3.0000e-005	8.8000e-004	2.5000e-004	2.0000e-005	2.7000e-004	0.0000	2.3998	2.3998	1.5000e-004	3.5000e-004	2.5066
Worker	4.5000e-004	3.1000e-004	4.6300e-003	1.0000e-005	1.8700e-003	1.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.0000e-004	0.0000	1.4023	1.4023	3.0000e-005	3.0000e-005	1.4126
<b>Total</b>	<b>6.1200e-003</b>	<b>0.4628</b>	<b>0.1378</b>	<b>2.2300e-003</b>	<b>0.0731</b>	<b>3.2900e-003</b>	<b>0.0764</b>	<b>0.0200</b>	<b>3.1400e-003</b>	<b>0.0232</b>	<b>0.0000</b>	<b>231.6304</b>	<b>231.6304</b>	<b>0.0242</b>	<b>0.0370</b>	<b>243.2496</b>

Eastern Remediation Area - Mitigated Tier 4 Interim - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0339	0.0000	0.0339	0.0133	0.0000	0.0133	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5900e-003	0.1638	0.3121	5.3000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	46.3415	46.3415	0.0150	0.0000	46.7162
<b>Total</b>	<b>8.5900e-003</b>	<b>0.1638</b>	<b>0.3121</b>	<b>5.3000e-004</b>	<b>0.0339</b>	<b>8.6000e-004</b>	<b>0.0347</b>	<b>0.0133</b>	<b>8.6000e-004</b>	<b>0.0142</b>	<b>0.0000</b>	<b>46.3415</b>	<b>46.3415</b>	<b>0.0150</b>	<b>0.0000</b>	<b>46.7162</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.5400e-003	0.4576	0.1312	2.2000e-003	0.0656	3.2500e-003	0.0688	0.0181	3.1100e-003	0.0212	0.0000	227.8283	227.8283	0.0240	0.0366	239.3305
Vendor	1.3000e-004	4.9800e-003	1.9900e-003	2.0000e-005	8.0000e-004	3.0000e-005	8.3000e-004	2.3000e-004	2.0000e-005	2.6000e-004	0.0000	2.3998	2.3998	1.5000e-004	3.5000e-004	2.5066
Worker	4.5900e-004	3.1000e-004	4.6300e-003	1.0000e-005	1.7200e-003	1.0000e-005	1.7300e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4023	1.4023	3.0000e-005	3.0000e-005	1.4126
<b>Total</b>	<b>6.1200e-003</b>	<b>0.4628</b>	<b>0.1378</b>	<b>2.2300e-003</b>	<b>0.0681</b>	<b>3.2900e-003</b>	<b>0.0714</b>	<b>0.0188</b>	<b>3.1400e-003</b>	<b>0.0220</b>	<b>0.0000</b>	<b>231.6304</b>	<b>231.6304</b>	<b>0.0242</b>	<b>0.0370</b>	<b>243.2496</b>



**Eastern Remediation Area - Mitigated Tier 4 Interim**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Grading	0.56	0.15	-0.20	0.00	0.72	0.71	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.72	0.53	-0.24	0.00	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Excavators	Diesel	Tier 4 Interim	2		No Change	0.00
Graders	Diesel	Tier 4 Interim	1		No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Interim	4		No Change	0.00
Scrapers	Diesel	Tier 4 Interim	2		No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	6		No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr						Unmitigated mt/yr						
Excavators	3.06000E-003	2.38500E-002	5.55100E-002	9.00000E-005	1.17000E-003	1.08000E-003	0.00000E+000	7.71516E+000	7.71516E+000	2.50000E-003	0.00000E+000	7.77754E+000
Graders	3.01000E-003	3.53200E-002	1.40800E-002	6.00000E-005	1.15000E-003	1.05000E-003	0.00000E+000	4.93900E+000	4.93900E+000	1.60000E-003	0.00000E+000	4.97893E+000
Rubber Tired Dozers	1.21600E-002	1.24730E-001	5.47900E-002	1.50000E-004	5.62000E-003	5.17000E-003	0.00000E+000	1.31289E+001	1.31289E+001	4.25000E-003	0.00000E+000	1.32351E+001
Scrapers	1.29200E-002	1.30830E-001	1.01440E-001	2.60000E-004	5.17000E-003	4.76000E-003	0.00000E+000	2.26566E+001	2.26566E+001	7.33000E-003	0.00000E+000	2.28398E+001
Tractors/Loaders/Backhoes	4.17000E-003	4.20000E-002	6.48300E-002	9.00000E-005	1.93000E-003	1.77000E-003	0.00000E+000	7.93899E+000	7.93899E+000	2.57000E-003	0.00000E+000	8.00318E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr						Mitigated mt/yr						
Excavators	1.08000E-003	3.87000E-002	6.66100E-002	9.00000E-005	1.40000E-004	1.40000E-004	0.00000E+000	7.71515E+000	7.71515E+000	2.50000E-003	0.00000E+000	7.77753E+000
Graders	9.20000E-004	1.48300E-002	2.98800E-002	6.00000E-005	9.00000E-005	9.00000E-005	0.00000E+000	4.93899E+000	4.93899E+000	1.60000E-003	0.00000E+000	4.97893E+000

**Eastern Remediation Area - Mitigated Tier 4 Interim**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Rubber Tired Dozers	2.44000E-003	3.93400E-002	7.92900E-002	1.50000E-004	2.40000E-004	2.40000E-004	0.00000E+000	1.31289E+001	1.31289E+001	4.25000E-003	0.00000E+000	1.32351E+001
Scrapers	4.23000E-003	6.81300E-002	1.37330E-001	2.60000E-004	4.20000E-004	4.20000E-004	0.00000E+000	2.26566E+001	2.26566E+001	7.33000E-003	0.00000E+000	2.28398E+001
Tractors/Loaders/Bac khnes	2.02000E-003	3.92800E-002	6.79200E-002	9.00000E-005	1.50000E-004	1.50000E-004	0.00000E+000	7.93898E+000	7.93898E+000	2.57000E-003	0.00000E+000	8.00317E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Excavators	6.47059E-001	-6.22642E-001	-1.99964E-001	0.00000E+000	8.80342E-001	8.70370E-001	0.00000E+000	1.29615E-006	1.29615E-006	0.00000E+000	0.00000E+000	1.28575E-006
Graders	6.94352E-001	5.80125E-001	-1.12216E+000	0.00000E+000	9.21739E-001	9.14286E-001	0.00000E+000	2.02470E-006	2.02470E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	7.99342E-001	6.84599E-001	-4.47162E-001	0.00000E+000	9.57295E-001	9.53578E-001	0.00000E+000	1.52335E-006	1.52335E-006	0.00000E+000	0.00000E+000	7.55568E-007
Scrapers	6.72601E-001	4.79248E-001	-3.53805E-001	0.00000E+000	9.18762E-001	9.11765E-001	0.00000E+000	1.32412E-006	1.32412E-006	0.00000E+000	0.00000E+000	1.31349E-006
Tractors/Loaders/Bac khnes	5.15588E-001	6.47619E-002	-4.76631E-002	0.00000E+000	9.22280E-001	9.15254E-001	0.00000E+000	1.25961E-006	1.25961E-006	0.00000E+000	0.00000E+000	1.24950E-006

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction 5.00
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction 55.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph) 15.00
Yes	Clean Paved Road	% PM Reduction	9.00	Frequency (per day) 2.00

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Grading	Fugitive Dust	0.08	0.03	0.03	0.01	0.57	0.57
Grading	Roads	0.07	0.02	0.07	0.02	0.07	0.06
Site Preparation	Fugitive Dust	0.06	0.03	0.03	0.01	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.06	0.06

# CalEEMod Output: Operation

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Proposed Project Operation - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Proposed Project Operation  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	450.00	Dwelling Unit	135.10	810,000.00	1287
Condo/Townhouse	650.00	Dwelling Unit	62.90	650,000.00	1859
City Park	15.10	Acre	15.10	657,756.00	0
Parking Lot	64.80	1000sqft	1.49	64,800.00	0
Other Asphalt Surfaces	2.00	Acre	2.00	87,120.00	0
Other Non-Asphalt Surfaces	45.51	Acre	45.51	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	371.48	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Land Use - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Construction Phase - Operation emissions modeling only.

Vehicle Trips - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Fleet Mix - See assumptions file (Changes to the CalEEMod Defaults - Year 2030) in the AQ/GHG appendix of the DEIR.

Woodstoves - Assumes gas fireplaces only per South Coast AQMD Rule 445.

Area Coating - See assumptions file (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Water And Wastewater - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Solid Waste - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
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Proposed Project Operation - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblAreaCoating	Area_Parking	9115	3888
tblConstructionPhase	NumDays	300.00	1.00
tblConstructionPhase	PhaseEndDate	3/31/2023	2/7/2022
tblFireplaces	NumberGas	552.50	650.00
tblFireplaces	NumberGas	382.50	450.00
tblFireplaces	NumberNoFireplace	65.00	0.00
tblFireplaces	NumberNoFireplace	45.00	0.00
tblFireplaces	NumberWood	32.50	0.00
tblFireplaces	NumberWood	22.50	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12

Proposed Project Operation - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblLandUse	LandUseSquareFeet	1,982,415.60	0.00
tblLandUse	LotAcreage	146.10	135.10
tblLandUse	LotAcreage	40.63	62.90
tblProjectCharacteristics	CO2IntensityFactor	390.98	371.48
tblSolidWaste	SolidWasteGenerationRate	1.30	0.00
tblSolidWaste	SolidWasteGenerationRate	299.00	1,471.90
tblSolidWaste	SolidWasteGenerationRate	527.67	1,471.90
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	8.95
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00

Proposed Project Operation - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	8.95
tblVehicleTrips	HW_TL	14.70	8.95
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	1.96	160.86
tblVehicleTrips	ST_TR	8.14	8.76
tblVehicleTrips	ST_TR	9.54	9.48
tblVehicleTrips	SU_TR	2.19	122.98
tblVehicleTrips	SU_TR	6.28	7.17
tblVehicleTrips	SU_TR	8.55	8.48
tblVehicleTrips	WD_TR	0.78	28.34
tblVehicleTrips	WD_TR	7.32	7.20
tblVehicleTrips	WD_TR	9.44	9.43
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	42,350,116.65	49,161,850.00
tblWater	IndoorWaterUseRate	29,319,311.53	49,161,850.00
tblWater	OutdoorWaterUseRate	17,991,368.38	22,284,101.67
tblWater	OutdoorWaterUseRate	26,698,986.59	22,284,101.67



Proposed Project Operation - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblWater	OutdoorWaterUseRate	18,483,913.79	22,284,101.67
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	32.50	0.00
tblWoodstoves	NumberCatalytic	22.50	0.00
tblWoodstoves	NumberNoncatalytic	32.50	0.00
tblWoodstoves	NumberNoncatalytic	22.50	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	36.3439	19.2905	98.2101	0.1213		1.9786	1.9786		1.9786	1.9786	0.0000	23,457.553 1	23,457.553 1	0.6021	0.4271	23,599.869 0
Energy	0.6347	5.4240	2.3081	0.0346		0.4385	0.4385		0.4385	0.4385		6,924.2622	6,924.2622	0.1327	0.1269	6,965.4096
Mobile	26.5955	15.9479	263.1335	0.5760	84.5118	0.2742	84.7861	22.4538	0.2543	22.7082		63,473.752 4	63,473.752 4	3.2945	1.9687	64,142.789 7
<b>Total</b>	<b>63.5742</b>	<b>40.6624</b>	<b>363.6516</b>	<b>0.7319</b>	<b>84.5118</b>	<b>2.6914</b>	<b>87.2032</b>	<b>22.4538</b>	<b>2.6715</b>	<b>25.1253</b>	<b>0.0000</b>	<b>93,855.567 6</b>	<b>93,855.567 6</b>	<b>4.0293</b>	<b>2.5227</b>	<b>94,708.068 4</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	36.3439	19.2905	98.2101	0.1213		1.9786	1.9786		1.9786	1.9786	0.0000	23,457.553 1	23,457.553 1	0.6021	0.4271	23,599.869 0
Energy	0.6347	5.4240	2.3081	0.0346		0.4385	0.4385		0.4385	0.4385		6,924.2622	6,924.2622	0.1327	0.1269	6,965.4096
Mobile	26.5955	15.9479	263.1335	0.5760	84.5118	0.2742	84.7861	22.4538	0.2543	22.7082		63,473.752 4	63,473.752 4	3.2945	1.9687	64,142.789 7
<b>Total</b>	<b>63.5742</b>	<b>40.6624</b>	<b>363.6516</b>	<b>0.7319</b>	<b>84.5118</b>	<b>2.6914</b>	<b>87.2032</b>	<b>22.4538</b>	<b>2.6715</b>	<b>25.1253</b>	<b>0.0000</b>	<b>93,855.567 6</b>	<b>93,855.567 6</b>	<b>4.0293</b>	<b>2.5227</b>	<b>94,708.068 4</b>

Proposed Project Operation - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	26.5955	15.9479	263.1335	0.5760	84.5118	0.2742	84.7861	22.4538	0.2543	22.7082	63,473.752	63,473.752	3.2945	1.9687	64,142.789	
Unmitigated	26.5955	15.9479	263.1335	0.5760	84.5118	0.2742	84.7861	22.4538	0.2543	22.7082	63,473.752	63,473.752	3.2945	1.9687	64,142.789	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	428.00	2,429.00	1857.00	2,989,491	2,989,491
Condo/Townhouse	4,680.00	5,694.00	4,659.98	15,702,959	15,702,959
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	4,243.01	4,266.00	3,816.00	13,629,503	13,629,503
Total	9,351.01	12,389.00	10,332.98	32,321,954	32,321,954

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Condo/Townhouse	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	8.95	5.90	8.70	100.00	0.00	0.00	100	0	0

Proposed Project Operation - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Condo/Townhouse	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Other Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Other Non-Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Parking Lot	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Single Family Housing	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.6347	5.4240	2.3081	0.0346		0.4385	0.4385		0.4385	0.4385		6,924.2622	6,924.2622	0.1327	0.1269	6,965.4096
NaturalGas Unmitigated	0.6347	5.4240	2.3081	0.0346		0.4385	0.4385		0.4385	0.4385		6,924.2622	6,924.2622	0.1327	0.1269	6,965.4096

Proposed Project Operation - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	29393.2	0.3170	2.7088	1.1527	0.0173		0.2190	0.2190		0.2190	0.2190		3,458.0293	3,458.0293	0.0663	0.0634	3,478.5787
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	29463	0.3177	2.7152	1.1554	0.0173		0.2195	0.2195		0.2195	0.2195		3,466.2329	3,466.2329	0.0664	0.0636	3,486.8310
<b>Total</b>		<b>0.6347</b>	<b>5.4240</b>	<b>2.3081</b>	<b>0.0346</b>		<b>0.4385</b>	<b>0.4385</b>		<b>0.4385</b>	<b>0.4385</b>		<b>6,924.2622</b>	<b>6,924.2622</b>	<b>0.1327</b>	<b>0.1270</b>	<b>6,965.4096</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	29,393.2	0.3170	2.7088	1.1527	0.0173		0.2190	0.2190		0.2190	0.2190		3,458.0293	3,458.0293	0.0663	0.0634	3,478.5787
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	29,463	0.3177	2.7152	1.1554	0.0173		0.2195	0.2195		0.2195	0.2195		3,466.2329	3,466.2329	0.0664	0.0636	3,486.8310
<b>Total</b>		<b>0.6347</b>	<b>5.4240</b>	<b>2.3081</b>	<b>0.0346</b>		<b>0.4385</b>	<b>0.4385</b>		<b>0.4385</b>	<b>0.4385</b>		<b>6,924.2622</b>	<b>6,924.2622</b>	<b>0.1327</b>	<b>0.1270</b>	<b>6,965.4096</b>

Proposed Project Operation - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.3439	19.2905	98.2101	0.1213		1.9786	1.9786		1.9786	1.9786	0.0000	23,457.553 1	23,457.553 1	0.6021	0.4271	23,599.869 0
Unmitigated	36.3439	19.2905	98.2101	0.1213		1.9786	1.9786		1.9786	1.9786	0.0000	23,457.553 1	23,457.553 1	0.6021	0.4271	23,599.869 0

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.9957					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.1353	18.2471	7.7647	0.1165		1.4753	1.4753		1.4753	1.4753	0.0000	23,294.117 7	23,294.117 7	0.4465	0.4271	23,432.542 9
Landscaping	2.7051	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033		163.4354	163.4354	0.1556		167.3261
<b>Total</b>	<b>36.3439</b>	<b>19.2905</b>	<b>98.2101</b>	<b>0.1213</b>		<b>1.9786</b>	<b>1.9786</b>		<b>1.9786</b>	<b>1.9786</b>	<b>0.0000</b>	<b>23,457.553 1</b>	<b>23,457.553 1</b>	<b>0.6021</b>	<b>0.4271</b>	<b>23,599.869 0</b>

Proposed Project Operation - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.9957					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.1353	18.2471	7.7647	0.1165		1.4753	1.4753		1.4753	1.4753	0.0000	23,294.1177	23,294.1177	0.4465	0.4271	23,432.5429
Landscaping	2.7051	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033		163.4354	163.4354	0.1556		167.3261
<b>Total</b>	<b>36.3439</b>	<b>19.2905</b>	<b>98.2101</b>	<b>0.1213</b>		<b>1.9786</b>	<b>1.9786</b>		<b>1.9786</b>	<b>1.9786</b>	<b>0.0000</b>	<b>23,457.5531</b>	<b>23,457.5531</b>	<b>0.6021</b>	<b>0.4271</b>	<b>23,599.8690</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Proposed Project Operation - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Proposed Project Operation - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Proposed Project Operation  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	450.00	Dwelling Unit	135.10	810,000.00	1287
Condo/Townhouse	650.00	Dwelling Unit	62.90	650,000.00	1859
City Park	15.10	Acre	15.10	657,756.00	0
Parking Lot	64.80	1000sqft	1.49	64,800.00	0
Other Asphalt Surfaces	2.00	Acre	2.00	87,120.00	0
Other Non-Asphalt Surfaces	45.51	Acre	45.51	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	371.48	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Land Use - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Construction Phase - Operation emissions modeling only.

Vehicle Trips - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Fleet Mix - See assumptions file (Changes to the CalEEMod Defaults - Year 2030) in the AQ/GHG appendix of the DEIR.

Woodstoves - Assumes gas fireplaces only per South Coast AQMD Rule 445.

Area Coating - See assumptions file (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Water And Wastewater - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Solid Waste - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
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Proposed Project Operation - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblAreaCoating	Area_Parking	9115	3888
tblConstructionPhase	NumDays	300.00	1.00
tblConstructionPhase	PhaseEndDate	3/31/2023	2/7/2022
tblFireplaces	NumberGas	552.50	650.00
tblFireplaces	NumberGas	382.50	450.00
tblFireplaces	NumberNoFireplace	65.00	0.00
tblFireplaces	NumberNoFireplace	45.00	0.00
tblFireplaces	NumberWood	32.50	0.00
tblFireplaces	NumberWood	22.50	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12

Proposed Project Operation - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblLandUse	LandUseSquareFeet	1,982,415.60	0.00
tblLandUse	LotAcreage	146.10	135.10
tblLandUse	LotAcreage	40.63	62.90
tblProjectCharacteristics	CO2IntensityFactor	390.98	371.48
tblSolidWaste	SolidWasteGenerationRate	1.30	0.00
tblSolidWaste	SolidWasteGenerationRate	299.00	1,471.90
tblSolidWaste	SolidWasteGenerationRate	527.67	1,471.90
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	8.95
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00

Proposed Project Operation - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	8.95
tblVehicleTrips	HW_TL	14.70	8.95
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	1.96	160.86
tblVehicleTrips	ST_TR	8.14	8.76
tblVehicleTrips	ST_TR	9.54	9.48
tblVehicleTrips	SU_TR	2.19	122.98
tblVehicleTrips	SU_TR	6.28	7.17
tblVehicleTrips	SU_TR	8.55	8.48
tblVehicleTrips	WD_TR	0.78	28.34
tblVehicleTrips	WD_TR	7.32	7.20
tblVehicleTrips	WD_TR	9.44	9.43
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	42,350,116.65	49,161,850.00
tblWater	IndoorWaterUseRate	29,319,311.53	49,161,850.00
tblWater	OutdoorWaterUseRate	17,991,368.38	22,284,101.67
tblWater	OutdoorWaterUseRate	26,698,986.59	22,284,101.67

Proposed Project Operation - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblWater	OutdoorWaterUseRate	18,483,913.79	22,284,101.67
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	32.50	0.00
tblWoodstoves	NumberCatalytic	22.50	0.00
tblWoodstoves	NumberNoncatalytic	32.50	0.00
tblWoodstoves	NumberNoncatalytic	22.50	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	36.3439	19.2905	98.2101	0.1213		1.9786	1.9786		1.9786	1.9786	0.0000	23,457.553	23,457.553	0.6021	0.4271	23,599.869
Energy	0.6347	5.4240	2.3081	0.0346		0.4385	0.4385		0.4385	0.4385		6,924.2622	6,924.2622	0.1327	0.1269	6,965.4096
Mobile	26.3286	17.3817	262.0568	0.5526	84.5118	0.2742	84.7861	22.4538	0.2543	22.7082		60,873.126	60,873.126	3.3974	2.0674	61,574.159
<b>Total</b>	<b>63.3072</b>	<b>42.0962</b>	<b>362.5750</b>	<b>0.7085</b>	<b>84.5118</b>	<b>2.6914</b>	<b>87.2032</b>	<b>22.4538</b>	<b>2.6715</b>	<b>25.1253</b>	<b>0.0000</b>	<b>91,254.941</b>	<b>91,254.941</b>	<b>4.1323</b>	<b>2.6214</b>	<b>92,139.438</b>

Proposed Project Operation - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	36.3439	19.2905	98.2101	0.1213		1.9786	1.9786		1.9786	1.9786	0.0000	23,457.553 1	23,457.553 1	0.6021	0.4271	23,599.869 0
Energy	0.6347	5.4240	2.3081	0.0346		0.4385	0.4385		0.4385	0.4385		6,924.2622	6,924.2622	0.1327	0.1269	6,965.4096
Mobile	26.3286	17.3817	262.0568	0.5526	84.5118	0.2742	84.7861	22.4538	0.2543	22.7082		60,873.126 4	60,873.126 4	3.3974	2.0674	61,574.159 7
<b>Total</b>	<b>63.3072</b>	<b>42.0962</b>	<b>362.5750</b>	<b>0.7085</b>	<b>84.5118</b>	<b>2.6914</b>	<b>87.2032</b>	<b>22.4538</b>	<b>2.6715</b>	<b>25.1253</b>	<b>0.0000</b>	<b>91,254.941 7</b>	<b>91,254.941 7</b>	<b>4.1323</b>	<b>2.6214</b>	<b>92,139.438 3</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	26.3286	17.3817	262.0568	0.5526	84.5118	0.2742	84.7861	22.4538	0.2543	22.7082		60,873.126	60,873.126	3.3974	2.0674	61,574.159
Unmitigated	26.3286	17.3817	262.0568	0.5526	84.5118	0.2742	84.7861	22.4538	0.2543	22.7082		60,873.126	60,873.126	3.3974	2.0674	61,574.159

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	428.00	2,429.00	1857.00	2,989,491	2,989,491
Condo/Townhouse	4,680.00	5,694.00	4,659.98	15,702,959	15,702,959
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	4,243.01	4,266.00	3,816.00	13,629,503	13,629,503
<b>Total</b>	<b>9,351.01</b>	<b>12,389.00</b>	<b>10,332.98</b>	<b>32,321,954</b>	<b>32,321,954</b>

Proposed Project Operation - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Condo/Townhouse	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	8.95	5.90	8.70	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Condo/Townhouse	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Other Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Other Non-Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Parking Lot	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Single Family Housing	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.6347	5.4240	2.3081	0.0346		0.4385	0.4385		0.4385	0.4385		6,924.2622	6,924.2622	0.1327	0.1269	6,965.4096
NaturalGas Unmitigated	0.6347	5.4240	2.3081	0.0346		0.4385	0.4385		0.4385	0.4385		6,924.2622	6,924.2622	0.1327	0.1269	6,965.4096

Proposed Project Operation - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	29393.2	0.3170	2.7088	1.1527	0.0173		0.2190	0.2190		0.2190	0.2190		3,458.0293	3,458.0293	0.0663	0.0634	3,478.5787
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	29463	0.3177	2.7152	1.1554	0.0173		0.2195	0.2195		0.2195	0.2195		3,466.2329	3,466.2329	0.0664	0.0636	3,486.8310
<b>Total</b>		<b>0.6347</b>	<b>5.4240</b>	<b>2.3081</b>	<b>0.0346</b>		<b>0.4385</b>	<b>0.4385</b>		<b>0.4385</b>	<b>0.4385</b>		<b>6,924.2622</b>	<b>6,924.2622</b>	<b>0.1327</b>	<b>0.1270</b>	<b>6,965.4096</b>

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	29,393.2	0.3170	2.7088	1.1527	0.0173		0.2190	0.2190		0.2190	0.2190		3,458.0293	3,458.0293	0.0663	0.0634	3,478.5787
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	29,463	0.3177	2.7152	1.1554	0.0173		0.2195	0.2195		0.2195	0.2195		3,466.2329	3,466.2329	0.0664	0.0636	3,486.8310
<b>Total</b>		<b>0.6347</b>	<b>5.4240</b>	<b>2.3081</b>	<b>0.0346</b>		<b>0.4385</b>	<b>0.4385</b>		<b>0.4385</b>	<b>0.4385</b>		<b>6,924.2622</b>	<b>6,924.2622</b>	<b>0.1327</b>	<b>0.1270</b>	<b>6,965.4096</b>

Proposed Project Operation - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.3439	19.2905	98.2101	0.1213		1.9786	1.9786		1.9786	1.9786	0.0000	23,457.553 1	23,457.553 1	0.6021	0.4271	23,599.869 0
Unmitigated	36.3439	19.2905	98.2101	0.1213		1.9786	1.9786		1.9786	1.9786	0.0000	23,457.553 1	23,457.553 1	0.6021	0.4271	23,599.869 0

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.9957					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.1353	18.2471	7.7647	0.1165		1.4753	1.4753		1.4753	1.4753	0.0000	23,294.117 7	23,294.117 7	0.4465	0.4271	23,432.542 9
Landscaping	2.7051	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033		163.4354	163.4354	0.1556		167.3261
<b>Total</b>	<b>36.3439</b>	<b>19.2905</b>	<b>98.2101</b>	<b>0.1213</b>		<b>1.9786</b>	<b>1.9786</b>		<b>1.9786</b>	<b>1.9786</b>	<b>0.0000</b>	<b>23,457.553 1</b>	<b>23,457.553 1</b>	<b>0.6021</b>	<b>0.4271</b>	<b>23,599.869 0</b>



Proposed Project Operation - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.9957					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.1353	18.2471	7.7647	0.1165		1.4753	1.4753		1.4753	1.4753	0.0000	23,294.1177	23,294.1177	0.4465	0.4271	23,432.5429
Landscaping	2.7051	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033		163.4354	163.4354	0.1556		167.3261
<b>Total</b>	<b>36.3439</b>	<b>19.2905</b>	<b>98.2101</b>	<b>0.1213</b>		<b>1.9786</b>	<b>1.9786</b>		<b>1.9786</b>	<b>1.9786</b>	<b>0.0000</b>	<b>23,457.5531</b>	<b>23,457.5531</b>	<b>0.6021</b>	<b>0.4271</b>	<b>23,599.8690</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Proposed Project Operation - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Proposed Project Operation - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Proposed Project Operation  
Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	450.00	Dwelling Unit	135.10	810,000.00	1287
Condo/Townhouse	650.00	Dwelling Unit	62.90	650,000.00	1859
City Park	15.10	Acre	15.10	657,756.00	0
Parking Lot	64.80	1000sqft	1.49	64,800.00	0
Other Asphalt Surfaces	2.00	Acre	2.00	87,120.00	0
Other Non-Asphalt Surfaces	45.51	Acre	45.51	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	371.48	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Land Use - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Construction Phase - Operation emissions modeling only.

Vehicle Trips - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Fleet Mix - See assumptions file (Changes to the CalEEMod Defaults - Year 2030) in the AQ/GHG appendix of the DEIR.

Woodstoves - Assumes gas fireplaces only per South Coast AQMD Rule 445.

Area Coating - See assumptions file (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Water And Wastewater - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Solid Waste - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
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Proposed Project Operation - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblAreaCoating	Area_Parking	9115	3888
tblConstructionPhase	NumDays	300.00	1.00
tblConstructionPhase	PhaseEndDate	3/31/2023	2/7/2022
tblFireplaces	NumberGas	552.50	650.00
tblFireplaces	NumberGas	382.50	450.00
tblFireplaces	NumberNoFireplace	65.00	0.00
tblFireplaces	NumberNoFireplace	45.00	0.00
tblFireplaces	NumberWood	32.50	0.00
tblFireplaces	NumberWood	22.50	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12

Proposed Project Operation - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblLandUse	LandUseSquareFeet	1,982,415.60	0.00
tblLandUse	LotAcreage	146.10	135.10
tblLandUse	LotAcreage	40.63	62.90
tblProjectCharacteristics	CO2IntensityFactor	390.98	371.48
tblSolidWaste	SolidWasteGenerationRate	1.30	0.00
tblSolidWaste	SolidWasteGenerationRate	299.00	1,471.90
tblSolidWaste	SolidWasteGenerationRate	527.67	1,471.90
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	8.95
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00

Proposed Project Operation - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	8.95
tblVehicleTrips	HW_TL	14.70	8.95
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	1.96	160.86
tblVehicleTrips	ST_TR	8.14	8.76
tblVehicleTrips	ST_TR	9.54	9.48
tblVehicleTrips	SU_TR	2.19	122.98
tblVehicleTrips	SU_TR	6.28	7.17
tblVehicleTrips	SU_TR	8.55	8.48
tblVehicleTrips	WD_TR	0.78	28.34
tblVehicleTrips	WD_TR	7.32	7.20
tblVehicleTrips	WD_TR	9.44	9.43
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	42,350,116.65	49,161,850.00
tblWater	IndoorWaterUseRate	29,319,311.53	49,161,850.00
tblWater	OutdoorWaterUseRate	17,991,368.38	22,284,101.67
tblWater	OutdoorWaterUseRate	26,698,986.59	22,284,101.67

Proposed Project Operation - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblWater	OutdoorWaterUseRate	18,483,913.79	22,284,101.67
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	32.50	0.00
tblWoodstoves	NumberCatalytic	22.50	0.00
tblWoodstoves	NumberNoncatalytic	32.50	0.00
tblWoodstoves	NumberNoncatalytic	22.50	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.1142	0.3585	11.4027	2.0600e-003		0.0814	0.0814		0.0814	0.0814	0.0000	282.6841	282.6841	0.0227	4.8400e-003	284.6950
Energy	0.1158	0.9899	0.4212	6.3200e-003		0.0800	0.0800		0.0800	0.0800	0.0000	2,272.2807	2,272.2807	0.1220	0.0331	2,285.2063
Mobile	3.7614	2.5748	38.3979	0.0814	12.1029	0.0399	12.1428	3.2200	0.0370	3.2571	0.0000	8,135.2569	8,135.2569	0.4467	0.2754	8,228.4986
Waste						0.0000	0.0000		0.0000	0.0000	597.5648	0.0000	597.5648	35.3151	0.0000	1,480.4415
Water						0.0000	0.0000		0.0000	0.0000	34.7871	340.8768	375.6639	0.1500	0.0793	403.0520
<b>Total</b>	<b>9.9915</b>	<b>3.9232</b>	<b>50.2219</b>	<b>0.0898</b>	<b>12.1029</b>	<b>0.2013</b>	<b>12.3042</b>	<b>3.2200</b>	<b>0.1984</b>	<b>3.4185</b>	<b>632.3519</b>	<b>11,031.0986</b>	<b>11,663.4504</b>	<b>36.0565</b>	<b>0.3927</b>	<b>12,681.8933</b>

Proposed Project Operation - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.1142	0.3585	11.4027	2.0600e-003		0.0814	0.0814		0.0814	0.0814	0.0000	282.6841	282.6841	0.0227	4.8400e-003	284.6950
Energy	0.1158	0.9899	0.4212	6.3200e-003		0.0800	0.0800		0.0800	0.0800	0.0000	2,272.2807	2,272.2807	0.1220	0.0331	2,285.2063
Mobile	3.7614	2.5748	38.3979	0.0814	12.1029	0.0399	12.1428	3.2200	0.0370	3.2571	0.0000	8,135.2569	8,135.2569	0.4467	0.2754	8,228.4986
Waste						0.0000	0.0000		0.0000	0.0000	597.5648	0.0000	597.5648	35.3151	0.0000	1,480.4415
Water						0.0000	0.0000		0.0000	0.0000	27.8297	290.0974	317.9270	0.1216	0.0636	339.9319
<b>Total</b>	<b>9.9915</b>	<b>3.9232</b>	<b>50.2219</b>	<b>0.0898</b>	<b>12.1029</b>	<b>0.2013</b>	<b>12.3042</b>	<b>3.2200</b>	<b>0.1984</b>	<b>3.4185</b>	<b>625.3945</b>	<b>10,980.3191</b>	<b>11,605.7135</b>	<b>36.0281</b>	<b>0.3770</b>	<b>12,618.7733</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.10</b>	<b>0.46</b>	<b>0.50</b>	<b>0.08</b>	<b>3.99</b>	<b>0.50</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7614	2.5748	38.3979	0.0814	12.1029	0.0399	12.1428	3.2200	0.0370	3.2571	0.0000	8,135.2569	8,135.2569	0.4467	0.2754	8,228.4986
Unmitigated	3.7614	2.5748	38.3979	0.0814	12.1029	0.0399	12.1428	3.2200	0.0370	3.2571	0.0000	8,135.2569	8,135.2569	0.4467	0.2754	8,228.4986



Proposed Project Operation - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	428.00	2,429.00	1857.00	2,989,491	2,989,491
Condo/Townhouse	4,680.00	5,694.00	4659.98	15,702,959	15,702,959
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	4,243.01	4,266.00	3816.00	13,629,503	13,629,503
<b>Total</b>	<b>9,351.01</b>	<b>12,389.00</b>	<b>10,332.98</b>	<b>32,321,954</b>	<b>32,321,954</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Condo/Townhouse	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	8.95	5.90	8.70	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Condo/Townhouse	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Other Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Other Non-Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Parking Lot	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Single Family Housing	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837

Proposed Project Operation - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,125.8914	1,125.8914	0.1000	0.0121	1,132.0046
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,125.8914	1,125.8914	0.1000	0.0121	1,132.0046
NaturalGas Mitigated	0.1158	0.9899	0.4212	6.3200e-003		0.0800	0.0800		0.0800	0.0800	0.0000	1,146.3893	1,146.3893	0.0220	0.0210	1,153.2017
NaturalGas Unmitigated	0.1158	0.9899	0.4212	6.3200e-003		0.0800	0.0800		0.0800	0.0800	0.0000	1,146.3893	1,146.3893	0.0220	0.0210	1,153.2017

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.07285e+007	0.0579	0.4944	0.2104	3.1600e-003		0.0400	0.0400		0.0400	0.0400	0.0000	572.5155	572.5155	0.0110	0.0105	575.9177
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.0754e+007	0.0580	0.4955	0.2109	3.1600e-003		0.0401	0.0401		0.0401	0.0401	0.0000	573.8737	573.8737	0.0110	0.0105	577.2840
<b>Total</b>		<b>0.1158</b>	<b>0.9899</b>	<b>0.4212</b>	<b>6.3200e-003</b>		<b>0.0800</b>	<b>0.0800</b>		<b>0.0800</b>	<b>0.0800</b>	<b>0.0000</b>	<b>1,146.3893</b>	<b>1,146.3893</b>	<b>0.0220</b>	<b>0.0210</b>	<b>1,153.2017</b>

Proposed Project Operation - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1.07285e+007	0.0579	0.4944	0.2104	3.1600e-003		0.0400	0.0400		0.0400	0.0400	0.0000	572.5155	572.5155	0.0110	0.0105	575.9177
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.0754e+007	0.0580	0.4955	0.2109	3.1600e-003		0.0401	0.0401		0.0401	0.0401	0.0000	573.8737	573.8737	0.0110	0.0105	577.2840
<b>Total</b>		<b>0.1158</b>	<b>0.9899</b>	<b>0.4212</b>	<b>6.3200e-003</b>		<b>0.0800</b>	<b>0.0800</b>		<b>0.0800</b>	<b>0.0800</b>	<b>0.0000</b>	<b>1,146.3893</b>	<b>1,146.3893</b>	<b>0.0220</b>	<b>0.0210</b>	<b>1,153.2017</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.14101e+006	529.2614	0.0470	5.7000e-003	532.1351
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	22680	3.8216	3.4000e-004	4.0000e-005	3.8423
Single Family Housing	3.51814e+006	592.8084	0.0527	6.3800e-003	596.0271
<b>Total</b>		<b>1,125.8914</b>	<b>0.1000</b>	<b>0.0121</b>	<b>1,132.0046</b>

Proposed Project Operation - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	3.14101e+006	529.2614	0.0470	5.7000e-003	532.1351
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	22680	3.8216	3.4000e-004	4.0000e-005	3.8423
Single Family Housing	3.51814e+006	592.8084	0.0527	6.3800e-003	596.0271
<b>Total</b>		<b>1,125.8914</b>	<b>0.1000</b>	<b>0.0121</b>	<b>1,132.0046</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.1142	0.3585	11.4027	2.0600e-003		0.0814	0.0814		0.0814	0.0814	0.0000	282.6841	282.6841	0.0227	4.8400e-003	284.6950
Unmitigated	6.1142	0.3585	11.4027	2.0600e-003		0.0814	0.0814		0.0814	0.0814	0.0000	282.6841	282.6841	0.0227	4.8400e-003	284.6950

Proposed Project Operation - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.4577					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.2917					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0267	0.2281	0.0971	1.4600e-003		0.0184	0.0184		0.0184	0.0184	0.0000	264.1509	264.1509	5.0600e-003	4.8400e-003	265.7206	
Landscaping	0.3381	0.1304	11.3057	6.0000e-004		0.0629	0.0629		0.0629	0.0629	0.0000	18.5333	18.5333	0.0177	0.0000	18.9745	
<b>Total</b>	<b>6.1142</b>	<b>0.3585</b>	<b>11.4027</b>	<b>2.0600e-003</b>		<b>0.0814</b>	<b>0.0814</b>		<b>0.0814</b>	<b>0.0814</b>	<b>0.0000</b>	<b>282.6841</b>	<b>282.6841</b>	<b>0.0227</b>	<b>4.8400e-003</b>	<b>284.6950</b>	

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.4577					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.2917					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0267	0.2281	0.0971	1.4600e-003		0.0184	0.0184		0.0184	0.0184	0.0000	264.1509	264.1509	5.0600e-003	4.8400e-003	265.7206	
Landscaping	0.3381	0.1304	11.3057	6.0000e-004		0.0629	0.0629		0.0629	0.0629	0.0000	18.5333	18.5333	0.0177	0.0000	18.9745	
<b>Total</b>	<b>6.1142</b>	<b>0.3585</b>	<b>11.4027</b>	<b>2.0600e-003</b>		<b>0.0814</b>	<b>0.0814</b>		<b>0.0814</b>	<b>0.0814</b>	<b>0.0000</b>	<b>282.6841</b>	<b>282.6841</b>	<b>0.0227</b>	<b>4.8400e-003</b>	<b>284.6950</b>	

Proposed Project Operation - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	317.9270	0.1216	0.0636	339.9319
Unmitigated	375.6639	0.1500	0.0793	403.0520

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 22.2841	41.7167	3.7100e-003	4.5000e-004	41.9433
Condo/Townhouse	49.1619 / 22.2841	166.9736	0.0732	0.0394	180.5544
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	49.1619 / 22.2841	166.9736	0.0732	0.0394	180.5544
<b>Total</b>		<b>375.6639</b>	<b>0.1500</b>	<b>0.0793</b>	<b>403.0520</b>

Proposed Project Operation - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 20.9248	39.1720	3.4800e-003	4.2000e-004	39.3847
Condo/Townhouse	39.3295 / 20.9248	139.3775	0.0590	0.0316	150.2736
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	39.3295 / 20.9248	139.3775	0.0590	0.0316	150.2736
<b>Total</b>		<b>317.9270</b>	<b>0.1216</b>	<b>0.0636</b>	<b>339.9319</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	597.5648	35.3151	0.0000	1,480.4415
Unmitigated	597.5648	35.3151	0.0000	1,480.4415

Proposed Project Operation - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1471.9	298.7824	17.6575	0.0000	740.2208
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1471.9	298.7824	17.6575	0.0000	740.2208
<b>Total</b>		<b>597.5648</b>	<b>35.3151</b>	<b>0.0000</b>	<b>1,480.4415</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1471.9	298.7824	17.6575	0.0000	740.2208
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1471.9	298.7824	17.6575	0.0000	740.2208
<b>Total</b>		<b>597.5648</b>	<b>35.3151</b>	<b>0.0000</b>	<b>1,480.4415</b>



Proposed Project Operation - Orange County, Annual  
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**Proposed Project Operation**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	14.90	15.37	18.97	19.77	15.66
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.68		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			

**Proposed Project Operation**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00	
No	Parking Policy Pricing	Limit Parking Supply	0.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00	
No	Transit Improvements	Provide BRT System	0.00	
No	Transit Improvements	Expand Transit Network	0.00	
No	Transit Improvements	Increase Transit Frequency	0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00	
		Land Use and Site Enhancement Subtotal	0.00	
No	Commute	Implement Trip Reduction Program		
No	Commute	Transit Subsidy		
No	Commute	Implement Employee Parking "Cash Out"		
No	Commute	Workplace Parking Charge		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00	
No	Commute	Market Commute Trip Reduction Option	0.00	
No	Commute	Employee Vanpool/Shuttle	0.00	2.00
No	Commute	Provide Ride Sharing Program		
	Commute	Commute Subtotal	0.00	
No	School Trip	Implement School Bus Program	0.00	
		Total VMT Reduction	0.00	

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00

**Proposed Project Operation**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Use Low VOC Paint (Residential Exterior)	50.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	

**Proposed Project Operation**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

**Solid Waste Mitigation**

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

# CalEEMod Output: Operation – Mitigated

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Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace)**  
**Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.00	Acre	2.00	87,120.00	0
Other Non-Asphalt Surfaces	45.51	Acre	45.51	0.00	0
Parking Lot	64.80	1000sqft	1.49	64,800.00	0
City Park	15.10	Acre	15.10	657,756.00	0
Condo/Townhouse	650.00	Dwelling Unit	62.90	650,000.00	1859
Single Family Housing	450.00	Dwelling Unit	135.10	810,000.00	1287

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	371.48	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Land Use - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Construction Phase - Operation emissions modeling only.

Vehicle Trips - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Woodstoves - Mitigation

Area Coating - See assumptions file (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.



Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Water And Wastewater - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Solid Waste - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Water Mitigation -

Fleet Mix - See assumptions file (Changes to the CalEEMod Defaults - Year 2030) in the AQ/GHG appendix of the DEIR.

Energy Use - Mitigation. See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG Appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	9115	3888
tblEnergyUse	NT24E	3,795.01	4,029.01
tblEnergyUse	NT24E	6,155.97	6,465.97
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	T24E	36.21	2,727.21
tblEnergyUse	T24E	53.28	4,393.28
tblEnergyUse	T24NG	10,989.44	0.00
tblEnergyUse	T24NG	18,381.75	0.00
tblFireplaces	NumberGas	552.50	0.00
tblFireplaces	NumberGas	382.50	0.00
tblFireplaces	NumberNoFireplace	65.00	650.00
tblFireplaces	NumberNoFireplace	45.00	450.00
tblFireplaces	NumberWood	32.50	0.00
tblFireplaces	NumberWood	22.50	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblLandUse	LandUseSquareFeet	1,982,415.60	0.00
tblLandUse	LotAcreage	40.63	62.90
tblLandUse	LotAcreage	146.10	135.10
tblProjectCharacteristics	CO2IntensityFactor	390.98	371.48
tblSolidWaste	SolidWasteGenerationRate	1.30	0.00
tblSolidWaste	SolidWasteGenerationRate	299.00	1,471.90
tblSolidWaste	SolidWasteGenerationRate	527.67	1,471.90
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	8.95
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	8.95

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	HW_TL	14.70	8.95
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	1.96	160.86
tblVehicleTrips	ST_TR	8.14	8.76
tblVehicleTrips	ST_TR	9.54	9.48
tblVehicleTrips	SU_TR	2.19	122.98
tblVehicleTrips	SU_TR	6.28	7.17
tblVehicleTrips	SU_TR	8.55	8.48
tblVehicleTrips	WD_TR	0.78	28.34
tblVehicleTrips	WD_TR	7.32	7.20
tblVehicleTrips	WD_TR	9.44	9.43
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	42,350,116.65	49,161,850.00
tblWater	IndoorWaterUseRate	29,319,311.53	49,161,850.00
tblWater	OutdoorWaterUseRate	17,991,368.38	22,284,101.67
tblWater	OutdoorWaterUseRate	26,698,986.59	22,284,101.67

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblWater	OutdoorWaterUseRate	18,483,913.79	22,284,101.67
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	32.50	0.00
tblWoodstoves	NumberCatalytic	22.50	0.00
tblWoodstoves	NumberNoncatalytic	32.50	0.00
tblWoodstoves	NumberNoncatalytic	22.50	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	34.2086	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033	0.0000	163.4354	163.4354	0.1556	0.0000	167.3261
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	26.6016	15.9528	263.2199	0.5762	84.5448	0.2743	84.8191	22.4626	0.2544	22.7170		63,498.0192	63,498.0192	3.2955	1.9693	64,167.2555
<b>Total</b>	<b>60.8102</b>	<b>16.9963</b>	<b>353.6652</b>	<b>0.5810</b>	<b>84.5448</b>	<b>0.7776</b>	<b>85.3224</b>	<b>22.4626</b>	<b>0.7577</b>	<b>23.2203</b>	<b>0.0000</b>	<b>63,661.4547</b>	<b>63,661.4547</b>	<b>3.4511</b>	<b>1.9693</b>	<b>64,334.5815</b>

**Mitigated Operational**

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	34.2086	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033	0.0000	163.4354	163.4354	0.1556	0.0000	167.3261
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	26.6016	15.9528	263.2199	0.5762	84.5448	0.2743	84.8191	22.4626	0.2544	22.7170		63,498.019 2	63,498.019 2	3.2955	1.9693	64,167.255 5
<b>Total</b>	<b>60.8102</b>	<b>16.9963</b>	<b>353.6652</b>	<b>0.5810</b>	<b>84.5448</b>	<b>0.7776</b>	<b>85.3224</b>	<b>22.4626</b>	<b>0.7577</b>	<b>23.2203</b>	<b>0.0000</b>	<b>63,661.454 7</b>	<b>63,661.454 7</b>	<b>3.4511</b>	<b>1.9693</b>	<b>64,334.581 5</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	26.6016	15.9528	263.2199	0.5762	84.5448	0.2743	84.8191	22.4626	0.2544	22.7170		63,498.019 2	63,498.019 2	3.2955	1.9693	64,167.255 5
Unmitigated	26.6016	15.9528	263.2199	0.5762	84.5448	0.2743	84.8191	22.4626	0.2544	22.7170		63,498.019 2	63,498.019 2	3.2955	1.9693	64,167.255 5

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	427.93	2,428.99	1857.00	2,990,499	2,990,499
Condo/Townhouse	4,680.00	5,694.00	4660.50	15,709,344	15,709,344
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	4,243.50	4,266.00	3816.00	13,635,987	13,635,987
<b>Total</b>	<b>9,351.43</b>	<b>12,388.99</b>	<b>10,333.50</b>	<b>32,335,831</b>	<b>32,335,831</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Condo/Townhouse	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	8.95	5.90	8.70	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Condo/Townhouse	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Other Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Other Non-Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Parking Lot	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Single Family Housing	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	34.2086	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033	0.0000	163.4354	163.4354	0.1556	0.0000	167.3261
Unmitigated	34.2086	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033	0.0000	163.4354	163.4354	0.1556	0.0000	167.3261

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.9957					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7051	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033		163.4354	163.4354	0.1556		167.3261
<b>Total</b>	<b>34.2086</b>	<b>1.0435</b>	<b>90.4453</b>	<b>4.7900e-003</b>		<b>0.5033</b>	<b>0.5033</b>		<b>0.5033</b>	<b>0.5033</b>	<b>0.0000</b>	<b>163.4354</b>	<b>163.4354</b>	<b>0.1556</b>	<b>0.0000</b>	<b>167.3261</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.9957					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7051	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033		163.4354	163.4354	0.1556		167.3261
<b>Total</b>	<b>34.2086</b>	<b>1.0435</b>	<b>90.4453</b>	<b>4.7900e-003</b>		<b>0.5033</b>	<b>0.5033</b>		<b>0.5033</b>	<b>0.5033</b>	<b>0.0000</b>	<b>163.4354</b>	<b>163.4354</b>	<b>0.1556</b>	<b>0.0000</b>	<b>167.3261</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Summer  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace)**  
**Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.00	Acre	2.00	87,120.00	0
Other Non-Asphalt Surfaces	45.51	Acre	45.51	0.00	0
Parking Lot	64.80	1000sqft	1.49	64,800.00	0
City Park	15.10	Acre	15.10	657,756.00	0
Condo/Townhouse	650.00	Dwelling Unit	62.90	650,000.00	1859
Single Family Housing	450.00	Dwelling Unit	135.10	810,000.00	1287

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	371.48	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.
- Land Use - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.
- Construction Phase - Operation emissions modeling only.
- Vehicle Trips - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.
- Woodstoves - Mitigation
- Area Coating - See assumptions file (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.
- Water And Wastewater - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.
- Solid Waste - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.
- Water Mitigation -
- Fleet Mix - See assumptions file (Changes to the CalEEMod Defaults - Year 2030) in the AQ/GHG appendix of the DEIR.
- Energy Use - Mitigation. See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG Appendix of the DEIR.

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	9115	3888
tblEnergyUse	NT24E	3,795.01	4,029.01
tblEnergyUse	NT24E	6,155.97	6,465.97
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	T24E	36.21	2,727.21
tblEnergyUse	T24E	53.28	4,393.28
tblEnergyUse	T24NG	10,989.44	0.00
tblEnergyUse	T24NG	18,381.75	0.00
tblFireplaces	NumberGas	552.50	0.00
tblFireplaces	NumberGas	382.50	0.00
tblFireplaces	NumberNoFireplace	65.00	650.00
tblFireplaces	NumberNoFireplace	45.00	450.00
tblFireplaces	NumberWood	32.50	0.00
tblFireplaces	NumberWood	22.50	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	LHD2	7.2300e-003	7.3780e-003

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblFleetMix	LHD2	7.2300e-003	7.3780e-003
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MCY	0.03	0.03
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MH	3.3970e-003	8.3700e-004
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	MHD	0.02	3.7390e-003
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	OBUS	6.8100e-004	1.6800e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblLandUse	LandUseSquareFeet	1,982,415.60	0.00
tblLandUse	LotAcreage	40.63	62.90
tblLandUse	LotAcreage	146.10	135.10
tblProjectCharacteristics	CO2IntensityFactor	390.98	371.48
tblSolidWaste	SolidWasteGenerationRate	1.30	0.00
tblSolidWaste	SolidWasteGenerationRate	299.00	1,471.90
tblSolidWaste	SolidWasteGenerationRate	527.67	1,471.90
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	CW_TL	16.60	8.95
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	8.95
tblVehicleTrips	HW_TL	14.70	8.95
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	1.96	160.86
tblVehicleTrips	ST_TR	8.14	8.76
tblVehicleTrips	ST_TR	9.54	9.48
tblVehicleTrips	SU_TR	2.19	122.98
tblVehicleTrips	SU_TR	6.28	7.17
tblVehicleTrips	SU_TR	8.55	8.48
tblVehicleTrips	WD_TR	0.78	28.34
tblVehicleTrips	WD_TR	7.32	7.20
tblVehicleTrips	WD_TR	9.44	9.43
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	42,350,116.65	49,161,850.00
tblWater	IndoorWaterUseRate	29,319,311.53	49,161,850.00
tblWater	OutdoorWaterUseRate	17,991,368.38	22,284,101.67
tblWater	OutdoorWaterUseRate	26,698,986.59	22,284,101.67
tblWater	OutdoorWaterUseRate	18,483,913.79	22,284,101.67
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	32.50	0.00
tblWoodstoves	NumberCatalytic	22.50	0.00
tblWoodstoves	NumberNoncatalytic	32.50	0.00
tblWoodstoves	NumberNoncatalytic	22.50	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational  
Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	34.2086	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033	0.0000	163.4354	163.4354	0.1556	0.0000	167.3261
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	26.3348	17.3870	262.1399	0.5528	84.5448	0.2743	84.8191	22.4626	0.2544	22.7170		60,896.373 2	60,896.373 2	3.3984	2.0681	61,597.613 6
<b>Total</b>	<b>60.5434</b>	<b>18.4305</b>	<b>352.5853</b>	<b>0.5576</b>	<b>84.5448</b>	<b>0.7776</b>	<b>85.3224</b>	<b>22.4626</b>	<b>0.7577</b>	<b>23.2203</b>	<b>0.0000</b>	<b>61,059.808 6</b>	<b>61,059.808 6</b>	<b>3.5541</b>	<b>2.0681</b>	<b>61,764.939 7</b>



Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	34.2086	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033	0.0000	163.4354	163.4354	0.1556	0.0000	167.3261
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	26.3348	17.3870	262.1399	0.5528	84.5448	0.2743	84.8191	22.4626	0.2544	22.7170		60,896.3732	60,896.3732	3.3984	2.0681	61,597.6136
<b>Total</b>	<b>60.5434</b>	<b>18.4305</b>	<b>352.5853</b>	<b>0.5576</b>	<b>84.5448</b>	<b>0.7776</b>	<b>85.3224</b>	<b>22.4626</b>	<b>0.7577</b>	<b>23.2203</b>	<b>0.0000</b>	<b>61,059.8086</b>	<b>61,059.8086</b>	<b>3.5541</b>	<b>2.0681</b>	<b>61,764.9397</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	26.3348	17.3870	262.1399	0.5528	84.5448	0.2743	84.8191	22.4626	0.2544	22.7170		60,896.3732	60,896.3732	3.3984	2.0681	61,597.6136
Unmitigated	26.3348	17.3870	262.1399	0.5528	84.5448	0.2743	84.8191	22.4626	0.2544	22.7170		60,896.3732	60,896.3732	3.3984	2.0681	61,597.6136

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	427.93	2,428.99	1857.00	2,990,499	2,990,499
Condo/Townhouse	4,680.00	5,694.00	4660.50	15,709,344	15,709,344
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	4,243.50	4,266.00	3816.00	13,635,987	13,635,987
<b>Total</b>	<b>9,351.43</b>	<b>12,388.99</b>	<b>10,333.50</b>	<b>32,335,831</b>	<b>32,335,831</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Condo/Townhouse	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	8.95	5.90	8.70	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Condo/Townhouse	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Other Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Other Non-Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Parking Lot	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Single Family Housing	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	34.2086	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033	0.0000	163.4354	163.4354	0.1556	0.0000	167.3261
Unmitigated	34.2086	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033	0.0000	163.4354	163.4354	0.1556	0.0000	167.3261

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.9957					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7051	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033		163.4354	163.4354	0.1556		167.3261
<b>Total</b>	<b>34.2086</b>	<b>1.0435</b>	<b>90.4453</b>	<b>4.7900e-003</b>		<b>0.5033</b>	<b>0.5033</b>		<b>0.5033</b>	<b>0.5033</b>	<b>0.0000</b>	<b>163.4354</b>	<b>163.4354</b>	<b>0.1556</b>	<b>0.0000</b>	<b>167.3261</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	28.9957					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7051	1.0435	90.4453	4.7900e-003		0.5033	0.5033		0.5033	0.5033		163.4354	163.4354	0.1556		167.3261
<b>Total</b>	<b>34.2086</b>	<b>1.0435</b>	<b>90.4453</b>	<b>4.7900e-003</b>		<b>0.5033</b>	<b>0.5033</b>		<b>0.5033</b>	<b>0.5033</b>	<b>0.0000</b>	<b>163.4354</b>	<b>163.4354</b>	<b>0.1556</b>	<b>0.0000</b>	<b>167.3261</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace)**  
**Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.00	Acre	2.00	87,120.00	0
Other Non-Asphalt Surfaces	45.51	Acre	45.51	0.00	0
Parking Lot	64.80	1000sqft	1.49	64,800.00	0
City Park	15.10	Acre	15.10	657,756.00	0
Condo/Townhouse	650.00	Dwelling Unit	62.90	650,000.00	1859
Single Family Housing	450.00	Dwelling Unit	135.10	810,000.00	1287

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2035
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	371.48	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Land Use - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Construction Phase - Operation emissions modeling only.

Vehicle Trips - See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Woodstoves - Mitigation

Area Coating - See assumptions file (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Water And Wastewater - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Solid Waste - See assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG appendix of the DEIR.

Water Mitigation -

Fleet Mix - See assumptions file (Changes to the CalEEMod Defaults - Year 2030) in the AQ/GHG appendix of the DEIR.

Energy Use - Mitigation. See the assumptions worksheet (CalEEMod Land Use Inputs: Project) in the AQ/GHG Appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	9115	3888
tblEnergyUse	NT24E	3,795.01	4,029.01
tblEnergyUse	NT24E	6,155.97	6,465.97
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	T24E	36.21	2,727.21
tblEnergyUse	T24E	53.28	4,393.28
tblEnergyUse	T24NG	10,989.44	0.00
tblEnergyUse	T24NG	18,381.75	0.00
tblFireplaces	NumberGas	552.50	0.00
tblFireplaces	NumberGas	382.50	0.00
tblFireplaces	NumberNoFireplace	65.00	650.00
tblFireplaces	NumberNoFireplace	45.00	450.00
tblFireplaces	NumberWood	32.50	0.00
tblFireplaces	NumberWood	22.50	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	HHD	4.6850e-003	0.00
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDA	0.55	0.56



Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tb\FleetMix	LDT1	0.06	0.07
tb\FleetMix	LDT1	0.06	0.07
tb\FleetMix	LDT1	0.06	0.07
tb\FleetMix	LDT2	0.18	0.18
tb\FleetMix	LDT2	0.18	0.18
tb\FleetMix	LDT2	0.18	0.18
tb\FleetMix	LHD1	0.02	0.02
tb\FleetMix	LHD1	0.02	0.02
tb\FleetMix	LHD1	0.02	0.02
tb\FleetMix	LHD2	7.2300e-003	7.3780e-003
tb\FleetMix	LHD2	7.2300e-003	7.3780e-003
tb\FleetMix	LHD2	7.2300e-003	7.3780e-003
tb\FleetMix	MCY	0.03	0.03
tb\FleetMix	MCY	0.03	0.03
tb\FleetMix	MCY	0.03	0.03
tb\FleetMix	MDV	0.12	0.12
tb\FleetMix	MDV	0.12	0.12
tb\FleetMix	MDV	0.12	0.12
tb\FleetMix	MH	3.3970e-003	8.3700e-004
tb\FleetMix	MH	3.3970e-003	8.3700e-004
tb\FleetMix	MH	3.3970e-003	8.3700e-004
tb\FleetMix	MHD	0.02	3.7390e-003
tb\FleetMix	MHD	0.02	3.7390e-003
tb\FleetMix	MHD	0.02	3.7390e-003
tb\FleetMix	OBUS	6.8100e-004	1.6800e-004
tb\FleetMix	OBUS	6.8100e-004	1.6800e-004
tb\FleetMix	OBUS	6.8100e-004	1.6800e-004
tb\FleetMix	SBUS	6.8500e-004	1.6900e-004

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	SBUS	6.8500e-004	1.6900e-004
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblFleetMix	UBUS	3.5100e-004	8.7000e-005
tblLandUse	LandUseSquareFeet	1,982,415.60	0.00
tblLandUse	LotAcreage	40.63	62.90
tblLandUse	LotAcreage	146.10	135.10
tblProjectCharacteristics	CO2IntensityFactor	390.98	371.48
tblSolidWaste	SolidWasteGenerationRate	1.30	0.00
tblSolidWaste	SolidWasteGenerationRate	299.00	1,471.90
tblSolidWaste	SolidWasteGenerationRate	527.67	1,471.90
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	8.95
tblVehicleTrips	CW_TTP	33.00	100.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	8.70	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HO_TTP	40.60	0.00
tblVehicleTrips	HS_TL	5.90	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HS_TTP	19.20	0.00
tblVehicleTrips	HW_TL	14.70	8.95

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	HW_TL	14.70	8.95
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	HW_TTP	40.20	100.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	1.96	160.86
tblVehicleTrips	ST_TR	8.14	8.76
tblVehicleTrips	ST_TR	9.54	9.48
tblVehicleTrips	SU_TR	2.19	122.98
tblVehicleTrips	SU_TR	6.28	7.17
tblVehicleTrips	SU_TR	8.55	8.48
tblVehicleTrips	WD_TR	0.78	28.34
tblVehicleTrips	WD_TR	7.32	7.20
tblVehicleTrips	WD_TR	9.44	9.43
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	42,350,116.65	49,161,850.00
tblWater	IndoorWaterUseRate	29,319,311.53	49,161,850.00
tblWater	OutdoorWaterUseRate	17,991,368.38	22,284,101.67
tblWater	OutdoorWaterUseRate	26,698,986.59	22,284,101.67

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblWater	OutdoorWaterUseRate	18,483,913.79	22,284,101.67
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	32.50	0.00
tblWoodstoves	NumberCatalytic	22.50	0.00
tblWoodstoves	NumberNoncatalytic	32.50	0.00
tblWoodstoves	NumberNoncatalytic	22.50	0.00

**2.0 Emissions Summary**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.0875	0.1304	11.3057	6.0000e-004		0.0629	0.0629		0.0629	0.0629	0.0000	18.5333	18.5333	0.0177	0.0000	18.9745
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1,798.8403	1,798.8403	0.1598	0.0194	1,808.6073
Mobile	3.7625	2.5757	38.4117	0.0815	12.1081	0.0400	12.1480	3.2214	0.0371	3.2585	0.0000	8,138.6837	8,138.6837	0.4469	0.2755	8,231.9567
Waste						0.0000	0.0000		0.0000	0.0000	597.5648	0.0000	597.5648	35.3151	0.0000	1,480.4415
Water						0.0000	0.0000		0.0000	0.0000	34.7871	340.8768	375.6639	0.1500	0.0793	403.0520
<b>Total</b>	<b>9.8500</b>	<b>2.7062</b>	<b>49.7174</b>	<b>0.0821</b>	<b>12.1081</b>	<b>0.1029</b>	<b>12.2110</b>	<b>3.2214</b>	<b>0.1000</b>	<b>3.3214</b>	<b>632.3519</b>	<b>10,296.9340</b>	<b>10,929.2859</b>	<b>36.0894</b>	<b>0.3742</b>	<b>11,943.0319</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.0875	0.1304	11.3057	6.0000e-004		0.0629	0.0629		0.0629	0.0629	0.0000	18.5333	18.5333	0.0177	0.0000	18.9745
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1,798.8403	1,798.8403	0.1598	0.0194	1,808.6073
Mobile	3.7625	2.5757	38.4117	0.0815	12.1081	0.0400	12.1480	3.2214	0.0371	3.2585	0.0000	8,138.6837	8,138.6837	0.4469	0.2755	8,231.9567
Waste						0.0000	0.0000		0.0000	0.0000	597.5648	0.0000	597.5648	35.3151	0.0000	1,480.4415
Water						0.0000	0.0000		0.0000	0.0000	27.8297	290.0974	317.9270	0.1216	0.0636	339.9319
<b>Total</b>	<b>9.8500</b>	<b>2.7062</b>	<b>49.7174</b>	<b>0.0821</b>	<b>12.1081</b>	<b>0.1029</b>	<b>12.2110</b>	<b>3.2214</b>	<b>0.1000</b>	<b>3.3214</b>	<b>625.3945</b>	<b>10,246.1545</b>	<b>10,871.5490</b>	<b>36.0610</b>	<b>0.3585</b>	<b>11,879.9119</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.10</b>	<b>0.49</b>	<b>0.53</b>	<b>0.08</b>	<b>4.19</b>	<b>0.53</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7625	2.5757	38.4117	0.0815	12.1081	0.0400	12.1480	3.2214	0.0371	3.2585	0.0000	8,138.6837	8,138.6837	0.4469	0.2755	8,231.9567
Unmitigated	3.7625	2.5757	38.4117	0.0815	12.1081	0.0400	12.1480	3.2214	0.0371	3.2585	0.0000	8,138.6837	8,138.6837	0.4469	0.2755	8,231.9567

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	427.93	2,428.99	1857.00	2,990,499	2,990,499
Condo/Townhouse	4,680.00	5,694.00	4660.50	15,709,344	15,709,344
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	4,243.50	4,266.00	3816.00	13,635,987	13,635,987
<b>Total</b>	<b>9,351.43</b>	<b>12,388.99</b>	<b>10,333.50</b>	<b>32,335,831</b>	<b>32,335,831</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Condo/Townhouse	8.95	0.00	0.00	100.00	0.00	0.00	100	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	8.95	5.90	8.70	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Condo/Townhouse	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837
Other Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Other Non-Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Parking Lot	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000685	0.003397
Single Family Housing	0.563796	0.065622	0.184527	0.122087	0.024780	0.007378	0.003739	0.000000	0.000168	0.000087	0.026810	0.000169	0.000837

**5.0 Energy Detail**

Historical Energy Use: N

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,798.8403	1,798.8403	0.1598	0.0194	1,808.6073
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,798.8403	1,798.8403	0.1598	0.0194	1,808.6073
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.042226e+006	849.6230	0.0755	9.1500e-003	854.2361
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	22680	3.8216	3.4000e-004	4.0000e-005	3.8423
Single Family Housing	5.61064e+006	945.3957	0.0840	0.0102	950.5289
<b>Total</b>		<b>1,798.8402</b>	<b>0.1598</b>	<b>0.0194</b>	<b>1,808.6073</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	5.042226e+006	849.6230	0.0755	9.1500e-003	854.2361
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	22680	3.8216	3.4000e-004	4.0000e-005	3.8423
Single Family Housing	5.61064e+006	945.3957	0.0840	0.0102	950.5289
<b>Total</b>		<b>1,798.8402</b>	<b>0.1598</b>	<b>0.0194</b>	<b>1,808.6073</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.0875	0.1304	11.3057	6.0000e-004		0.0629	0.0629		0.0629	0.0629	0.0000	18.5333	18.5333	0.0177	0.0000	18.9745
Unmitigated	6.0875	0.1304	11.3057	6.0000e-004		0.0629	0.0629		0.0629	0.0629	0.0000	18.5333	18.5333	0.0177	0.0000	18.9745

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4577					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.2917					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3381	0.1304	11.3057	6.0000e-004		0.0629	0.0629		0.0629	0.0629	0.0000	18.5333	18.5333	0.0177	0.0000	18.9745
<b>Total</b>	<b>6.0875</b>	<b>0.1304</b>	<b>11.3057</b>	<b>6.0000e-004</b>		<b>0.0629</b>	<b>0.0629</b>		<b>0.0629</b>	<b>0.0629</b>	<b>0.0000</b>	<b>18.5333</b>	<b>18.5333</b>	<b>0.0177</b>	<b>0.0000</b>	<b>18.9745</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4577					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.2917					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3381	0.1304	11.3057	6.0000e-004		0.0629	0.0629		0.0629	0.0629	0.0000	18.5333	18.5333	0.0177	0.0000	18.9745
<b>Total</b>	<b>6.0875</b>	<b>0.1304</b>	<b>11.3057</b>	<b>6.0000e-004</b>		<b>0.0629</b>	<b>0.0629</b>		<b>0.0629</b>	<b>0.0629</b>	<b>0.0000</b>	<b>18.5333</b>	<b>18.5333</b>	<b>0.0177</b>	<b>0.0000</b>	<b>18.9745</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	317.9270	0.1216	0.0636	339.9319
Unmitigated	375.6639	0.1500	0.0793	403.0520

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 22.2841	41.7167	3.7100e-003	4.5000e-004	41.9433
Condo/Townhouse	49.1619 / 22.2841	166.9736	0.0732	0.0394	180.5544
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	49.1619 / 22.2841	166.9736	0.0732	0.0394	180.5544
<b>Total</b>		<b>375.6639</b>	<b>0.1500</b>	<b>0.0793</b>	<b>403.0520</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 20.9248	39.1720	3.4800e-003	4.2000e-004	39.3847
Condo/Townhouse	39.3295 / 20.9248	139.3775	0.0590	0.0316	150.2736
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	39.3295 / 20.9248	139.3775	0.0590	0.0316	150.2736
<b>Total</b>		<b>317.9270</b>	<b>0.1216</b>	<b>0.0636</b>	<b>339.9319</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	597.5648	35.3151	0.0000	1,480.4415
Unmitigated	597.5648	35.3151	0.0000	1,480.4415

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1471.9	298.7824	17.6575	0.0000	740.2208
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1471.9	298.7824	17.6575	0.0000	740.2208
<b>Total</b>		<b>597.5648</b>	<b>35.3151</b>	<b>0.0000</b>	<b>1,480.4415</b>

Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1471.9	298.7824	17.6575	0.0000	740.2208
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1471.9	298.7824	17.6575	0.0000	740.2208
<b>Total</b>		<b>597.5648</b>	<b>35.3151</b>	<b>0.0000</b>	<b>1,480.4415</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace) - Orange County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace)**  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**  
**Orange County, Mitigation Report**

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	14.90	15.37	18.97	19.77	15.66
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.68		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			

**Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace)**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00	
No	Parking Policy Pricing	Limit Parking Supply	0.00	
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	
No	Parking Policy Pricing	On-street Market Pricing	0.00	
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00	
No	Transit Improvements	Provide BRT System	0.00	
No	Transit Improvements	Expand Transit Network	0.00	
No	Transit Improvements	Increase Transit Frequency	0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00	
		Land Use and Site Enhancement Subtotal	0.00	
No	Commute	Implement Trip Reduction Program		
No	Commute	Transit Subsidy		
No	Commute	Implement Employee Parking "Cash Out"		
No	Commute	Workplace Parking Charge		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00	
No	Commute	Market Commute Trip Reduction Option	0.00	
No	Commute	Employee Vanpool/Shuttle	0.00	2.00
No	Commute	Provide Ride Sharing Program		
	Commute	Commute Subtotal	0.00	
No	School Trip	Implement School Bus Program	0.00	
		Total VMT Reduction	0.00	

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00

**Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace)**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Use Low VOC Paint (Residential Exterior)	50.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	

**Proposed Project Operation - Mitigated (All Electric and No Gas Fireplace)**

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

**Solid Waste Mitigation**

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

## 4. Screening-Level Construction Localized Significance Thresholds Worksheets

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### Construction Localized Significance Thresholds: Western Remediation Area Site Preparation

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	3.50	25	82	25	82	94.90
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>		<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment U Daily Hours</b>	<b>Acres</b>
	25		Tractors	0.5	4 8	2
<b>NOx</b>	<b>184</b>		Graders	0.5		0
<b>CO</b>	<b>1,036</b>		Dozers	0.5	3 8	1.5
<b>PM10</b>	<b>8.50</b>		Scrapers	1		0
<b>PM2.5</b>	<b>5.00</b>					0
					<b>Acres</b>	<b>3.50</b>
	<b>Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	3	172	166	179	207	285
	4	196	189	203	228	301
		184	178	191	218	293
CO	3	945	1250	1688	2831	7665
	4	1128	1491	1981	3218	8210
		1037	1371	1835	3025	7938
PM10	3	8	23	37	66	152
	4	9	28	43	72	158
		9	26	40	69	155
PM2.5	3	5	7	12	27	84
	4	5	8	14	31	90
		5	8	13	29	87
North Orange County						
	<b>3.50 Acres</b>					
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	184	178	191	218	293	
CO	1037	1371	1835	3025	7938	
PM10	9	26	40	69	155	
PM2.5	5	8	13	29	87	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	3	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008



## Construction Localized Significance Thresholds: Western Remediation Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
16	4.00	25	82	25	82	94.90	
<b>Source Receptor</b>							
Distance (meters)	North Orange County	<b>Equipment</b>		<b>Acres/8-hr Day</b>		<b>Equipment L Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	0.0625	2	8	1
	<b>NOx 196</b>	Graders	0.5	0.0625	1	8	0.5
	<b>CO 1,128</b>	Dozers	0.5	0.0625	1	8	0.5
	<b>PM10 9.33</b>	Scrapers	1	0.125	2	8	2
	<b>PM2.5 5.33</b>					<b>Acres</b>	4.00
	Acres	<b>25</b>	<b>50</b>		<b>100</b>	<b>200</b>	<b>500</b>
	NOx	4	196	189	203	228	301
		4	196	189	203	228	301
		4	196	189	203	228	301
	CO	4	1128	1491	1981	3218	8210
		4	1128	1491	1981	3218	8210
		4	1128	1491	1981	3218	8210
	PM10	4	9	28	43	72	158
		4	9	28	43	72	158
		4	9	28	43	72	158
	PM2.5	4	5	8	14	31	90
		4	5	8	14	31	90
		4	5	8	14	31	90
North Orange County							
	<b>4.00 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>		<b>200</b>	<b>500</b>	
	NOx	196	189	203	228	301	
	CO	1128	1491	1981	3218	8210	
	PM10	9	28	43	72	158	
	PM2.5	5	8	14	31	90	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Site Preparation**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
16	3.50	25	82	25	82	68.80	
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment</b>	<b>Daily Hours</b>	<b>Acres</b>	
	25	Tractors	0.5	0.0625	4	8	2
<b>NOx</b>	<b>184</b>	Graders	0.5	0.0625			0
<b>CO</b>	<b>1,036</b>	Dozers	0.5	0.0625	3	8	1.5
<b>PM10</b>	<b>8.50</b>	Scrapers	1	0.125			0
<b>PM2.5</b>	<b>5.00</b>						0
						<b>Acres</b>	<b>3.50</b>
	<b>Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	3	172	166	179	207	285	
	4	196	189	203	228	301	
		184	178	191	218	293	
CO	3	945	1250	1688	2831	7665	
	4	1128	1491	1981	3218	8210	
		1037	1371	1835	3025	7938	
PM10	3	8	23	37	66	152	
	4	9	28	43	72	158	
		9	26	40	69	155	
PM2.5	3	5	7	12	27	84	
	4	5	8	14	31	90	
		5	8	13	29	87	
North Orange County	<b>3.50 Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	184	178	191	218	293		
CO	1037	1371	1835	3025	7938		
PM10	9	26	40	69	155		
PM2.5	5	8	13	29	87		

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	3	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Rough Grading**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	68.80

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment L Daily Hours	Acres
25		Tractors	0.5	0.0625	1
NOx	196	Graders	0.5	0.0625	0.5
CO	1,128	Dozers	0.5	0.0625	0.5
PM10	9.33	Scrapers	1	0.125	2
PM2.5	5.33				4.00

	Acres	25	50	100	200	500
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
	4	196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
	4	9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
	4	5	8	14	31	90

North Orange County

**4.00 Acres**

	25	50	100	200	500
NOx	196	189	203	228	301
CO	1128	1491	1981	3218	8210
PM10	9	28	43	72	158
PM2.5	5	8	14	31	90

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Rough Grading & P1 Utility Trenching**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	68.80

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
25		Tractors	0.5	0.0625	2	8	1
NOx	196	Graders	0.5	0.0625	1	8	0.5
CO	1,128	Dozers	0.5	0.0625	1	8	0.5
PM10	9.33	Scrapers	1	0.125	2	8	2
PM2.5	5.33					Acres	4.00

	Acres	25	50	100	200	500
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
	4	196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
	4	9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
	4	5	8	14	31	90

North Orange County						
4.00 Acres						
	25	50	100	200	500	
NOx	196	189	203	228	301	
CO	1128	1491	1981	3218	8210	
PM10	9	28	43	72	158	
PM2.5	5	8	14	31	90	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Rough Grading, P1 Utility Trenching, & P1 Fine Grading**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	5.00	25	82	25	82	68.80

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	4	8	2
NOx	221	Graders	0.5	2	8	1
CO	1,311	Dozers	0.5	2	8	1
PM10	10.99	Scrapers	1	4	8	4
PM2.5	6.00				Acres	8.00

	Acres	25	50	100	200	500
NOx	5	221	212	226	249	317
	5	221	212	226	249	317
	5	221	212	226	249	317
CO	5	1311	1731	2274	3605	8754
	5	1311	1731	2274	3605	8754
	5	1311	1731	2274	3605	8754
PM10	5	11	34	49	78	165
	5	11	34	49	78	165
	5	11	34	49	78	165
PM2.5	5	6	9	15	34	95
	5	6	9	15	34	95
	5	6	9	15	34	95

North Orange County						
5.00 Acres						
	25	50	100	200	500	
NOx	221	212	226	249	317	
CO	1311	1731	2274	3605	8754	
PM10	11	34	49	78	165	
PM2.5	6	9	15	34	95	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Utility Trenching & P1 Fine Grading**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	68.80

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	2	8	1
NOx	196	Graders	0.5	1	8	0.5
CO	1,128	Dozers	0.5	1	8	0.5
PM10	9.33	Scrapers	1	2	8	2.0
PM2.5	5.33					4.00

	Acres	25	50	100	200	500
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
	4	196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
	4	9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
	4	5	8	14	31	90

North Orange County

**4.00 Acres**

	25	50	100	200	500
NOx	196	189	203	228	301
CO	1128	1491	1981	3218	8210
PM10	9	28	43	72	158
PM2.5	5	8	14	31	90

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

### Construction Localized Significance Thresholds: P1 Fine Grading & P1 Asphalt Paving

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
16	4.00	25	82	25	82	68.80	
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>		<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	0.0625	2	8	1
<b>NOx</b>	<b>196</b>	Graders	0.5	0.0625	1	8	0.5
<b>CO</b>	<b>1,128</b>	Dozers	0.5	0.0625	1	8	0.5
<b>PM10</b>	<b>9.33</b>	Scrapers	1	0.125	2	8	2
<b>PM2.5</b>	<b>5.33</b>					<b>Acres</b>	<b>4.00</b>
	Acres	<b>25</b>	<b>50</b>		<b>100</b>	<b>200</b>	<b>500</b>
NOx	4	196	189		203	228	301
	4	196	189		203	228	301
		196	189		203	228	301
CO	4	1128	1491		1981	3218	8210
	4	1128	1491		1981	3218	8210
		1128	1491		1981	3218	8210
PM10	4	9	28		43	72	158
	4	9	28		43	72	158
		9	28		43	72	158
PM2.5	4	5	8		14	31	90
	4	5	8		14	31	90
		5	8		14	31	90
North Orange County	<b>4.00 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>		<b>200</b>	<b>500</b>	
NOx	196	189	203		228	301	
CO	1128	1491	1981		3218	8210	
PM10	9	28	43		72	158	
PM2.5	5	8	14		31	90	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Fine Grading, P1 Asphalt Paving, & P1 Finishing/Landscaping**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.50	25	82	25	82	68.80
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	3	8	1.5
<b>NOx</b>	<b>209</b>	Graders	0.5	1	8	0.5
<b>CO</b>	<b>1,219</b>	Dozers	0.5	1	8	0.5
<b>PM10</b>	<b>10.16</b>	Scrapers	1	2	8	2
<b>PM2.5</b>	<b>5.67</b>					4.50
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	4	196	189	203	228	301
	5	221	212	226	249	317
		209	201	214	239	309
CO	4	1128	1491	1981	3218	8210
	5	1311	1731	2274	3605	8754
		1220	1611	2128	3412	8482
PM10	4	9	28	43	72	158
	5	11	34	49	78	165
		10	31	46	75	162
PM2.5	4	5	8	14	31	90
	5	6	9	15	34	95
		6	9	14	32	92
North Orange County						
<b>4.50 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	209	201	214	239	309	
CO	1220	1611	2128	3412	8482	
PM10	10	31	46	75	162	
PM2.5	6	9	14	32	92	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008



## Construction Localized Significance Thresholds: P1 Asphalt Paving, P1 Finishing/Landscaping, & P1 Building Construction

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
16	1.81	25	82	25	82	68.80	
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>		<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	0.0625	1	8	0.5
<b>NOx</b>	<b>139</b>	Tractors	0.5	0.0625	3	7	1.3125
<b>CO</b>	<b>717</b>	Graders	0.5	0.0625			0
<b>PM10</b>	<b>5.62</b>	Dozers	0.5	0.0625			0
<b>PM2.5</b>	<b>3.81</b>	Scrapers	1	0.125			0
						<b>Acres</b>	<b>1.81</b>
	<b>Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>		<b>200</b>	<b>500</b>
NOx	1	103	104	121		159	252
	2	147	143	156		186	269
		139	136	149		181	266
CO	1	522	685	1014		1975	6531
	2	762	1010	1395		2444	7121
		717	949	1324		2356	7010
PM10	1	4	10	24		53	137
	2	6	17	31		60	145
		6	16	30		59	144
PM2.5	1	3	4	9		20	74
	2	4	6	11		24	79
		4	6	11		23	78
North Orange County							
	<b>1.81 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>		<b>500</b>	
NOx	139	136	149	181		266	
CO	717	949	1324	2356		7010	
PM10	6	16	30	59		144	
PM2.5	4	6	11	23		78	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Finishing/Landscaping & P1 Building Construction**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	1.81	25	82	25	82	68.80

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	1	8	0.5
NOx	139	Tractors	0.5	3	7	1.3125
CO	717	Graders	0.5			0
PM10	5.62	Dozers	0.5			0
PM2.5	3.81	Scrapers	1			0
					Acres	1.81

	Acres	25	50	100	200	500
NOx	1	103	104	121	159	252
	2	147	143	156	186	269
CO	1	139	136	149	181	266
	2	522	685	1014	1975	6531
PM10	1	762	1010	1395	2444	7121
	2	717	949	1324	2356	7010
PM2.5	1	4	10	24	53	137
	2	6	17	31	60	145
PM2.5	1	6	16	30	59	144
	2	3	4	9	20	74
PM2.5	1	4	6	11	24	79
	2	4	6	11	23	78
North Orange County						
1.81 Acres						
NOx	25	50	100	200	500	
CO	139	136	149	181	266	
PM10	717	949	1324	2356	7010	
PM2.5	6	16	30	59	144	
PM2.5	4	6	11	23	78	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Building Construction**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	1.31	25	82	25	82	68.80
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	3	7	1.3125
<b>NOx</b>	<b>117</b>	Graders	0.5			0
<b>CO</b>	<b>597</b>	Dozers	0.5			0
<b>PM10</b>	<b>4.62</b>	Scrapers	1			0
<b>PM2.5</b>	<b>3.31</b>					1.31
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	1	103	104	121	159	252
	2	147	143	156	186	269
		117	116	132	167	257
CO	1	522	685	1014	1975	6531
	2	762	1010	1395	2444	7121
		597	787	1133	2122	6715
PM10	1	4	10	24	53	137
	2	6	17	31	60	145
		5	12	26	55	140
PM2.5	1	3	4	9	20	74
	2	4	6	11	24	79
		3	5	10	21	76
North Orange County						
	<b>1.31 Acres</b>					
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	117	116	132	167	257	
CO	597	787	1133	2122	6715	
PM10	5	12	26	55	140	
PM2.5	3	5	10	21	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Building Construction, P2 Site Preparation, & Eastern Remediation Site Preparation**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	5.00	25	82	25	82	262.10
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	3	7	1.3125
<b>NOx</b>	<b>221</b>	Tractors	0.5	8	8	4
<b>CO</b>	<b>1,311</b>	Graders	0.5			0
<b>PM10</b>	<b>10.99</b>	Dozers	0.5	6	8	3
<b>PM2.5</b>	<b>6.00</b>	Scrapers	1			0
					<b>Acres</b>	<b>8.31</b>
	<b>Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	5	221	212	226	249	317
	5	221	212	226	249	317
		221	212	226	249	317
CO	5	1311	1731	2274	3605	8754
	5	1311	1731	2274	3605	8754
		1311	1731	2274	3605	8754
PM10	5	11	34	49	78	165
	5	11	34	49	78	165
		11	34	49	78	165
PM2.5	5	6	9	15	34	95
	5	6	9	15	34	95
		6	9	15	34	95
North Orange County						
	<b>5.00 Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx		221	212	226	249	317
CO		1311	1731	2274	3605	8754
PM10		11	34	49	78	165
PM2.5		6	9	15	34	95

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds: P1 Building Construction, P2 Site Preparation, & Eastern Remediation Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)		
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)			
16	5.00	25	82	25	82	262.10		
<b>Source Receptor Distance (meters)</b>								
	<b>North Orange County</b>		<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment U Daily Hours</b>	<b>Acres</b>		
	25		Tractors	0.5	0.0625	3	7	1.3125
	<b>NOx</b>	<b>221</b>	Tractors	0.5	0.0625	6	8	3
	<b>CO</b>	<b>1,311</b>	Graders	0.5	0.0625	1	8	0.5
	<b>PM10</b>	<b>10.99</b>	Dozers	0.5	0.0625	4	8	2
	<b>PM2.5</b>	<b>6.00</b>	Scrapers	1	0.125	2	8	2
						<b>Acres</b>		<b>8.81</b>
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>		
	NOx	5	221	212	226	249	317	317
		5	221	212	226	249	317	317
		5	221	212	226	249	317	317
	CO	5	1311	1731	2274	3605	8754	8754
		5	1311	1731	2274	3605	8754	8754
		5	1311	1731	2274	3605	8754	8754
	PM10	5	11	34	49	78	165	165
		5	11	34	49	78	165	165
		5	11	34	49	78	165	165
	PM2.5	5	6	9	15	34	95	95
		5	6	9	15	34	95	95
		5	6	9	15	34	95	95
North Orange County								
	<b>5.00 Acres</b>		<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>		
	NOx	221	212	226	249	317		
	CO	1311	1731	2274	3605	8754		
	PM10	11	34	49	78	165		
	PM2.5	6	9	15	34	95		

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Building Construction & P2 Site Preparation**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
16	3.50	25	82	25	82	94.90	
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>		<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	0.0625			0
<b>NOx</b>	<b>184</b>	Tractors	0.5	0.0625	4	8	2
<b>CO</b>	<b>1,036</b>	Graders	0.5	0.0625			0
<b>PM10</b>	<b>8.50</b>	Dozers	0.5	0.0625	3	8	1.5
<b>PM2.5</b>	<b>5.00</b>	Scrapers	1	0.125			0
						<b>Acres</b>	<b>3.50</b>
	<b>Acres</b>	<b>25</b>	<b>50</b>		<b>100</b>	<b>200</b>	<b>500</b>
NOx	3	172	166		179	207	285
	4	196	189		203	228	301
		184	178		191	218	293
CO	3	945	1250		1688	2831	7665
	4	1128	1491		1981	3218	8210
		1037	1371		1835	3025	7938
PM10	3	8	23		37	66	152
	4	9	28		43	72	158
		9	26		40	69	155
PM2.5	3	5	7		12	27	84
	4	5	8		14	31	90
		5	8		13	29	87
North Orange County							
	<b>3.50 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>		<b>200</b>	<b>500</b>	
NOx	184	178	191		218	293	
CO	1037	1371	1835		3025	7938	
PM10	9	26	40		69	155	
PM2.5	5	8	13		29	87	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	3	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

### Construction Localized Significance Thresholds: P2 Rough Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	163.70

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	0.0625		0
NOx	196	Tractors	0.5	0.0625	2	1
CO	1,128	Graders	0.5	0.0625	1	0.5
PM10	9.33	Dozers	0.5	0.0625	1	0.5
PM2.5	5.33	Scrapers	1	0.125	2	2
					<b>Acres</b>	<b>4.00</b>

	Acres	25	50	100	200	500
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
	4	196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
	4	9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
	4	5	8	14	31	90

North Orange County

**4.00 Acres**

	25	50	100	200	500
NOx	196	189	203	228	301
CO	1128	1491	1981	3218	8210
PM10	9	28	43	72	158
PM2.5	5	8	14	31	90

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P1 Building Construction & P1 Architectural Coating**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	1.31	25	82	25	82	68.80

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment	Daily Hours	Acres
25		Tractors	0.5		7	1.3125
NOx	117	Tractors	0.5		3	0
CO	597	Graders	0.5			0
PM10	4.62	Dozers	0.5			0
PM2.5	3.31	Scrapers	1			0
						1.31

	Acres	25	50	100	200	500
NOx	1	103	104	121	159	252
	2	147	143	156	186	269
CO	1	117	116	132	167	257
	2	522	685	1014	1975	6531
PM10	1	762	1010	1395	2444	7121
	2	597	787	1133	2122	6715
PM2.5	1	4	10	24	53	137
	2	6	17	31	60	145
	1	5	12	26	55	140
	2	3	4	9	20	74
North Orange County	1	4	6	11	24	79
	2	3	5	10	21	76
<b>1.31 Acres</b>						
NOx	25	50	100	200	500	
CO	117	116	132	167	257	
PM10	597	787	1133	2122	6715	
PM2.5	5	12	26	55	140	
	3	5	10	21	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008



**Construction Localized Significance Thresholds: P2 Rough Grading & P2 Utility Trenching**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	94.90

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
25		Tractors	0.5	0.0625	2	8	1
NOx	196	Graders	0.5	0.0625	1	8	0.5
CO	1,128	Dozers	0.5	0.0625	1	8	0.5
PM10	9.33	Scrapers	1	0.125	2	8	2
PM2.5	5.33					Acres	4.00

	Acres	25	50	100	200	500
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
	4	196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
	4	9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
	4	5	8	14	31	90

North Orange County

**4.00 Acres**

	25	50	100	200	500
NOx	196	189	203	228	301
CO	1128	1491	1981	3218	8210
PM10	9	28	43	72	158
PM2.5	5	8	14	31	90

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P2 Rough Grading, P2 Utility Trenching, & P2 Fine Grading**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	5.00	25	82	25	82	94.90
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	4	8	2
<b>NOx</b>	<b>221</b>	Graders	0.5	2	8	1
<b>CO</b>	<b>1,311</b>	Dozers	0.5	2	8	1.0
<b>PM10</b>	<b>10.99</b>	Scrapers	1	4	8	4.0
<b>PM2.5</b>	<b>6.00</b>					8.00
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	5	221	212	226	249	317
	5	221	212	226	249	317
		221	212	226	249	317
CO	5	1311	1731	2274	3605	8754
	5	1311	1731	2274	3605	8754
		1311	1731	2274	3605	8754
PM10	5	11	34	49	78	165
	5	11	34	49	78	165
		11	34	49	78	165
PM2.5	5	6	9	15	34	95
	5	6	9	15	34	95
		6	9	15	34	95
North Orange County						
<b>5.00 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	221	212	226	249	317	
CO	1311	1731	2274	3605	8754	
PM10	11	34	49	78	165	
PM2.5	6	9	15	34	95	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P2 Utility Trenching & P2 Fine Grading**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	94.90

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	2	8	1
NOx	196	Graders	0.5	1	8	0.5
CO	1,128	Dozers	0.5	1	8	0.5
PM10	9.33	Scrapers	1	2	8	2
PM2.5	5.33				Acres	4.00

	Acres	25	50	100	200	500
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
	4	196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
	4	9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
	4	5	8	14	31	90

North Orange County

**4.00 Acres**

	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	196	189	203	228	301
CO	1128	1491	1981	3218	8210
PM10	9	28	43	72	158
PM2.5	5	8	14	31	90

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P2 Fine Grading**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	94.90

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	2	8	1
NOx	196	Graders	0.5	1	8	0.5
CO	1,128	Dozers	0.5	1	8	0.5
PM10	9.33	Scrapers	1	2	8	2
PM2.5	5.33					4.00

	Acres	25	50	100	200	500
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
	4	196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
	4	9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
	4	5	8	14	31	90

North Orange County

**4.00 Acres**

	25	50	100	200	500
NOx	196	189	203	228	301
CO	1128	1491	1981	3218	8210
PM10	9	28	43	72	158
PM2.5	5	8	14	31	90

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

### Construction Localized Significance Thresholds: P2 Fine Grading & P2 Asphalt Paving

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	94.90

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	2	8	1
NOx	196	Graders	0.5	1	8	0.5
CO	1,128	Dozers	0.5	1	8	0.5
PM10	9.33	Scrapers	1	2	8	2
PM2.5	5.33					4.00

	Acres	25	50	100	200	500
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
	4	196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
	4	9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
	4	5	8	14	31	90

North Orange County

**4.00 Acres**

	25	50	100	200	500
NOx	196	189	203	228	301
CO	1128	1491	1981	3218	8210
PM10	9	28	43	72	158
PM2.5	5	8	14	31	90

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds: P2 Fine Grading, P2 Asphalt Paving, & P2 Finishing/Landscaping

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.50	25	82	25	82	94.90
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	3	8	1.5
<b>NOx</b>	<b>209</b>	Graders	0.5	1	8	0.5
<b>CO</b>	<b>1,219</b>	Dozers	0.5	1	8	0.5
<b>PM10</b>	<b>10.16</b>	Scrapers	1	2	8	2
<b>PM2.5</b>	<b>5.67</b>					4.50
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	4	196	189	203	228	301
	5	221	212	226	249	317
CO	4	209	201	214	239	309
	5	1128	1491	1981	3218	8210
PM10	4	1311	1731	2274	3605	8754
	5	1220	1611	2128	3412	8482
PM2.5	4	9	28	43	72	158
	5	11	34	49	78	165
PM2.5	4	10	31	46	75	162
	5	5	8	14	31	90
PM2.5	5	6	9	15	34	95
	6	6	9	14	32	92
North Orange County						
<b>4.50 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	209	201	214	239	309	
CO	1220	1611	2128	3412	8482	
PM10	10	31	46	75	162	
PM2.5	6	9	14	32	92	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P2 Asphalt Paving & P2 Finishing/Landscaping**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	0.50	25	82	25	82	94.90
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	1	8	0.5
<b>NOx</b>	<b>103</b>	Graders	0.5			0
<b>CO</b>	<b>522</b>	Dozers	0.5			0
<b>PM10</b>	<b>4.00</b>	Scrapers	1			0
<b>PM2.5</b>	<b>3.00</b>					0.50
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74
North Orange County	<b>0.50 Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	103	104	121	159	252	
CO	522	685	1014	1975	6531	
PM10	4	10	24	53	137	
PM2.5	3	4	9	20	74	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	1.81	25	82	25	82	94.90
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	1	8	0.5
<b>NOx</b>	<b>139</b>	Tractors	0.5	3	7	1.3125
<b>CO</b>	<b>717</b>	Graders	0.5			0
<b>PM10</b>	<b>5.62</b>	Dozers	0.5			0
<b>PM2.5</b>	<b>3.81</b>	Scrapers	1			0
					<b>Acres</b>	<b>1.81</b>
	<b>Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	1	103	104	121	159	252
	2	147	143	156	186	269
		139	136	149	181	266
CO	1	522	685	1014	1975	6531
	2	762	1010	1395	2444	7121
		717	949	1324	2356	7010
PM10	1	4	10	24	53	137
	2	6	17	31	60	145
		6	16	30	59	144
PM2.5	1	3	4	9	20	74
	2	4	6	11	24	79
		4	6	11	23	78
North Orange County						
	<b>1.81 Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	139	136	149	181	266	
CO	717	949	1324	2356	7010	
PM10	6	16	30	59	144	
PM2.5	4	6	11	23	78	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008



**Construction Localized Significance Thresholds: P2 Finishing/Landscaping & P2 Building Construction**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	1.81	25	82	25	82	94.90

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	1	8	0.5
<b>NOx</b>	<b>139</b>	Tractors	0.5	3	7	1.3125
<b>CO</b>	<b>717</b>	Graders	0.5			0
<b>PM10</b>	<b>5.62</b>	Dozers	0.5			0
<b>PM2.5</b>	<b>3.81</b>	Scrapers	1			0
					<b>Acres</b>	1.81
	<b>Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	1	103	104	121	159	252
	2	147	143	156	186	269
		139	136	149	181	266
CO	1	522	685	1014	1975	6531
	2	762	1010	1395	2444	7121
		717	949	1324	2356	7010
PM10	1	4	10	24	53	137
	2	6	17	31	60	145
		6	16	30	59	144
PM2.5	1	3	4	9	20	74
	2	4	6	11	24	79
		4	6	11	23	78
North Orange County	<b>1.81 Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	139	136	149	181	266	
CO	717	949	1324	2356	7010	
PM10	6	16	30	59	144	
PM2.5	4	6	11	23	78	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P2 Building Construction**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	1.31	25	82	25	82	94.90
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	3	7	1.3125
<b>NOx</b>	<b>117</b>	Graders	0.5			0
<b>CO</b>	<b>597</b>	Dozers	0.5			0
<b>PM10</b>	<b>4.62</b>	Scrapers	1			0
<b>PM2.5</b>	<b>3.31</b>					1.31
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	1	103	104	121	159	252
	2	147	143	156	186	269
		117	116	132	167	257
CO	1	522	685	1014	1975	6531
	2	762	1010	1395	2444	7121
		597	787	1133	2122	6715
PM10	1	4	10	24	53	137
	2	6	17	31	60	145
		5	12	26	55	140
PM2.5	1	3	4	9	20	74
	2	4	6	11	24	79
		3	5	10	21	76
North Orange County						
	<b>1.31 Acres</b>					
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	117	116	132	167	257	
CO	597	787	1133	2122	6715	
PM10	5	12	26	55	140	
PM2.5	3	5	10	21	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P2 Building Construction & P3 Site Preparation**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)	
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)		
16	4.81	25	82	25	82	193.30	
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>		<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	0.0625	3	7	1.3125
<b>NOx</b>	<b>216</b>	Tractors	0.5	0.0625	4	8	2
<b>CO</b>	<b>1,277</b>	Graders	0.5	0.0625			0
<b>PM10</b>	<b>10.68</b>	Dozers	0.5	0.0625	3	8	1.5
<b>PM2.5</b>	<b>5.87</b>	Scrapers	1	0.125			0
						<b>Acres</b>	<b>4.81</b>
	<b>Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	4	196	189	203	228	301	
	5	221	212	226	249	317	
		216	208	222	245	314	
CO	4	1128	1491	1981	3218	8210	
	5	1311	1731	2274	3605	8754	
		1277	1686	2219	3532	8652	
PM10	4	9	28	43	72	158	
	5	11	34	49	78	165	
		11	33	48	77	164	
PM2.5	4	5	8	14	31	90	
	5	6	9	15	34	95	
		6	9	15	33	94	
North Orange County	<b>4.81 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>		
NOx	216	208	222	245	314		
CO	1277	1686	2219	3532	8652		
PM10	11	33	48	77	164		
PM2.5	6	9	15	33	94		

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P2 Building Construction & P3 Rough Grading**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	5.00	25	82	25	82	193.30
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	3	7	1.3125
NOx	221	Tractors	0.5	2	8	1
CO	1,311	Graders	0.5	1	8	0.5
PM10	10.99	Dozers	0.5	1	8	0.5
PM2.5	6.00	Scrapers	1	2	8	2
					<b>Acres</b>	<b>5.31</b>
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	5	221	212	226	249	317
	5	221	212	226	249	317
		221	212	226	249	317
CO	5	1311	1731	2274	3605	8754
	5	1311	1731	2274	3605	8754
		1311	1731	2274	3605	8754
PM10	5	11	34	49	78	165
	5	11	34	49	78	165
		11	34	49	78	165
PM2.5	5	6	9	15	34	95
	5	6	9	15	34	95
		6	9	15	34	95
North Orange County						
	<b>5.00 Acres</b>					
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	221	212	226	249	317	
CO	1311	1731	2274	3605	8754	
PM10	11	34	49	78	165	
PM2.5	6	9	15	34	95	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds: P2 Building Construction, P2 Architectural Coating, & P3 Rough Grading

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)		
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)			
16	5	25	82	25	82	193.30		
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>		<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment U Daily Hours</b>	<b>Acres</b>		
	25		Tractors	0.5	0.0625	3	7	1.3125
<b>NOx</b>	<b>221</b>		Tractors	0.5	0.0625	2	8	1
<b>CO</b>	<b>1,311</b>		Graders	0.5	0.0625	1	8	0.5
<b>PM10</b>	<b>10.99</b>		Dozers	0.5	0.0625	1	8	0.5
<b>PM2.5</b>	<b>6.00</b>		Scrapers	1	0.125	2	8	2
							<b>Acres</b>	<b>5.31</b>
	<b>Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>		
NOx	5	221	212	226	249	317		
	5	221	212	226	249	317		
		221	212	226	249	317		
CO	5	1311	1731	2274	3605	8754		
	5	1311	1731	2274	3605	8754		
		1311	1731	2274	3605	8754		
PM10	5	11	34	49	78	165		
	5	11	34	49	78	165		
		11	34	49	78	165		
PM2.5	5	6	9	15	34	95		
	5	6	9	15	34	95		
		6	9	15	34	95		
North Orange County								
	<b>5.00 Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>		
NOx	221	212	226	249	317			
CO	1311	1731	2274	3605	8754			
PM10	11	34	49	78	165			
PM2.5	6	9	15	34	95			

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P2 Building Construction, P2 Architectural Coating, P3 Rough Grading, & P3 Utility Trenching**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	5.00	25	82	25	82	193.30

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	3	7	1.3125
NOx	221	Tractors	0.5	2	8	1
CO	1,311	Graders	0.5	1	8	0.5
PM10	10.99	Dozers	0.5	1	8	0.5
PM2.5	6.00	Scrapers	1	2	8	2
					<b>Acres</b>	<b>5.31</b>

	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	5	221	212	226	249	317
	5	221	212	226	249	317
		221	212	226	249	317
CO	5	1311	1731	2274	3605	8754
	5	1311	1731	2274	3605	8754
		1311	1731	2274	3605	8754
PM10	5	11	34	49	78	165
	5	11	34	49	78	165
		11	34	49	78	165
PM2.5	5	6	9	15	34	95
	5	6	9	15	34	95
		6	9	15	34	95

North Orange County

	5.00 Acres					
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	221	212	226	249	317	
CO	1311	1731	2274	3605	8754	
PM10	11	34	49	78	165	
PM2.5	6	9	15	34	95	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P2 Building Construction, P2 Architectural Coating, P3 Rough Grading, P3 Utility Trenching, & P3 Fine Grading**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	5.00	25	82	25	82	262.10

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment	l Daily Hours	Acres	
25		Tractors	0.5	0.0625	3	7	1.3125
NOx	221	Tractors	0.5	0.0625	4	8	2
CO	1,311	Graders	0.5	0.0625	2	8	1
PM10	10.99	Dozers	0.5	0.0625	2	8	1
PM2.5	6.00	Scrapers	1	0.125	4	8	4
						<b>Acres</b>	9.31

	Acres	25	50	100	200	500
NOx	5	221	212	226	249	317
	5	221	212	226	249	317
		221	212	226	249	317
CO	5	1311	1731	2274	3605	8754
	5	1311	1731	2274	3605	8754
		1311	1731	2274	3605	8754
PM10	5	11	34	49	78	165
	5	11	34	49	78	165
		11	34	49	78	165
PM2.5	5	6	9	15	34	95
	5	6	9	15	34	95
		6	9	15	34	95

North Orange County

	5.00 Acres	25	50	100	200	500
NOx	221	212	226	249	317	
CO	1311	1731	2274	3605	8754	
PM10	11	34	49	78	165	
PM2.5	6	9	15	34	95	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P3 Rough Grading, P3 Utility Trenching, & P3 Fine Grading**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	5.00	25	82	25	82	98.40
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	4	8	2
<b>NOx</b>	<b>221</b>	Graders	0.5	2	8	1
<b>CO</b>	<b>1,311</b>	Dozers	0.5	2	8	1
<b>PM10</b>	<b>10.99</b>	Scrapers	1	4	8	4
<b>PM2.5</b>	<b>6.00</b>					8.00
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	5	221	212	226	249	317
	5	221	212	226	249	317
		221	212	226	249	317
CO	5	1311	1731	2274	3605	8754
	5	1311	1731	2274	3605	8754
		1311	1731	2274	3605	8754
PM10	5	11	34	49	78	165
	5	11	34	49	78	165
		11	34	49	78	165
PM2.5	5	6	9	15	34	95
	5	6	9	15	34	95
		6	9	15	34	95
North Orange County						
<b>5.00 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	221	212	226	249	317	
CO	1311	1731	2274	3605	8754	
PM10	11	34	49	78	165	
PM2.5	6	9	15	34	95	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	5	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008



**Construction Localized Significance Thresholds: P3 Utility Trenching & P3 Fine Grading**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	98.40

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	2	8	1
NOx	196	Graders	0.5	1	8	0.5
CO	1,128	Dozers	0.5	1	8	0.5
PM10	9.33	Scrapers	1	2	8	2
PM2.5	5.33				Acres	4.00

	Acres	25	50	100	200	500
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
	4	196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
	4	9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
	4	5	8	14	31	90

North Orange County						
	4.00 Acres	25	50	100	200	500
NOx		196	189	203	228	301
CO		1128	1491	1981	3218	8210
PM10		9	28	43	72	158
PM2.5		5	8	14	31	90

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P3 Utility Trenching, P3 Fine Grading, & P3 Asphalt Paving**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	98.40
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	2	8	1
<b>NOx</b>	<b>196</b>	Graders	0.5	1	8	0.5
<b>CO</b>	<b>1,128</b>	Dozers	0.5	1	8	0.5
<b>PM10</b>	<b>9.33</b>	Scrapers	1	2	8	2
<b>PM2.5</b>	<b>5.33</b>					4.00
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
		196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
		1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
		9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
		5	8	14	31	90
North Orange County						
<b>4.00 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	196	189	203	228	301	
CO	1128	1491	1981	3218	8210	
PM10	9	28	43	72	158	
PM2.5	5	8	14	31	90	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P3 Fine Grading & P3 Asphalt Paving**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.00	25	82	25	82	98.40

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	2	8	1
NOx	196	Graders	0.5	1	8	0.5
CO	1,128	Dozers	0.5	1	8	0.5
PM10	9.33	Scrapers	1	2	8	2
PM2.5	5.33				<b>Acres</b>	4.00

	Acres	25	50	100	200	500
NOx	4	196	189	203	228	301
	4	196	189	203	228	301
	4	196	189	203	228	301
CO	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
	4	1128	1491	1981	3218	8210
PM10	4	9	28	43	72	158
	4	9	28	43	72	158
	4	9	28	43	72	158
PM2.5	4	5	8	14	31	90
	4	5	8	14	31	90
	4	5	8	14	31	90

North Orange County		25	50	100	200	500
<b>4.00 Acres</b>						
NOx	196	189	203	228	301	
CO	1128	1491	1981	3218	8210	
PM10	9	28	43	72	158	
PM2.5	5	8	14	31	90	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds: P3 Fine Grading, P3 Asphalt Paving, & P3 Finishing/Landscaping

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	4.50	25	82	25	82	98.40
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>	<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25	Tractors	0.5	3	8	1.5
<b>NOx</b>	<b>209</b>	Graders	0.5	1	8	0.5
<b>CO</b>	<b>1,219</b>	Dozers	0.5	1	8	0.5
<b>PM10</b>	<b>10.16</b>	Scrapers	1	2	8	2
<b>PM2.5</b>	<b>5.67</b>					4.50
	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	4	196	189	203	228	301
	5	221	212	226	249	317
CO	4	209	201	214	239	309
	5	1128	1491	1981	3218	8210
PM10	4	1311	1731	2274	3605	8754
	5	1220	1611	2128	3412	8482
PM2.5	4	9	28	43	72	158
	5	11	34	49	78	165
PM2.5	4	10	31	46	75	162
	5	5	8	14	31	90
North Orange County	5	6	9	15	34	95
	6	6	9	14	32	92
	<b>4.50 Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	209	201	214	239	309	
CO	1220	1611	2128	3412	8482	
PM10	10	31	46	75	162	
PM2.5	6	9	14	32	92	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	4	16	5
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

### Construction Localized Significance Thresholds: P3 Finishing/Landscaping

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	0.5	25	82	25	82	98.40
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>		<b>Equipment</b>	<b>Acres/8-hr Day</b>	<b>Equipment U Daily Hours</b>	<b>Acres</b>
	25		Tractors	0.5	1 8	0.5
<b>NOx</b>	<b>103</b>		Graders	0.5		0
<b>CO</b>	<b>522</b>		Dozers	0.5		0
<b>PM10</b>	<b>4.00</b>		Scrapers	1		0
<b>PM2.5</b>	<b>3.00</b>					0
					<b>Acres</b>	<b>0.50</b>
	<b>Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	1	103	104	121	159	252
	1	103	104	121	159	252
		103	104	121	159	252
CO	1	522	685	1014	1975	6531
	1	522	685	1014	1975	6531
		522	685	1014	1975	6531
PM10	1	4	10	24	53	137
	1	4	10	24	53	137
		4	10	24	53	137
PM2.5	1	3	4	9	20	74
	1	3	4	9	20	74
		3	4	9	20	74
North Orange County						
<b>0.50 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	103	104	121	159	252	
CO	522	685	1014	1975	6531	
PM10	4	10	24	53	137	
PM2.5	3	4	9	20	74	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	1
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P3 Finishing/Landscaping & P3 Building Construction**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	1.81	25	82	25	82	98.40

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment Used	Daily Hours	Acres
25		Tractors	0.5	1	8	0.5
NOx	139	Tractors	0.5	3	7	1.3125
CO	717	Graders	0.5			0
PM10	5.62	Dozers	0.5			0
PM2.5	3.81	Scrapers	1			0
					Acres	1.81

	Acres	25	50	100	200	500
NOx	1	103	104	121	159	252
	2	147	143	156	186	269
CO	1	139	136	149	181	266
	2	522	685	1014	1975	6531
PM10	1	762	1010	1395	2444	7121
	2	717	949	1324	2356	7010
PM2.5	1	4	10	24	53	137
	2	6	17	31	60	145
PM2.5	1	6	16	30	59	144
	2	3	4	9	20	74
PM2.5	1	4	6	11	24	79
	2	4	6	11	23	78
North Orange County						
	1.81 Acres					
	25	50	100	200	500	
NOx	139	136	149	181	266	
CO	717	949	1324	2356	7010	
PM10	6	16	30	59	144	
PM2.5	4	6	11	23	78	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: P3 Building Construction**

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
16	1.31	25	82	25	82	98.40

Source Receptor Distance (meters)	North Orange County	Equipment	Acres/8-hr Day	Equipment L Daily Hours	Acres
25		Tractors	0.5	0.0625	1.3125
NOx	117	Graders	0.5	0.0625	0
CO	597	Dozers	0.5	0.0625	0
PM10	4.62	Scrapers	1	0.125	0
PM2.5	3.31				1.31

	Acres	25	50	100	200	500
NOx	1	103	104	121	159	252
	2	147	143	156	186	269
CO	1	117	116	132	167	257
	2	522	685	1014	1975	6531
PM10	1	762	1010	1395	2444	7121
	2	597	787	1133	2122	6715
PM2.5	1	4	10	24	53	137
	2	6	17	31	60	145
PM2.5	1	5	12	26	55	140
	2	3	4	9	20	74
PM2.5	1	4	6	11	24	79
	2	3	5	10	21	76
North Orange County	1.31 Acres					
	25	50	100	200	500	
NOx	117	116	132	167	257	
CO	597	787	1133	2122	6715	
PM10	5	12	26	55	140	
PM2.5	3	5	10	21	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds: P3 Building Construction & P3 Architectural Coating

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)		
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)			
16	1.31	25	82	25	82	98.40		
<b>Source Receptor Distance (meters)</b>	<b>North Orange County</b>		<b>Equipment</b>	<b>Acres/8-hr Day</b>		<b>Equipment Used</b>	<b>Daily Hours</b>	<b>Acres</b>
	25		Tractors	0.5	0.0625	3	7	1.3125
<b>NOx</b>	<b>117</b>		Graders	0.5	0.0625			0
<b>CO</b>	<b>597</b>		Dozers	0.5	0.0625			0
<b>PM10</b>	<b>4.62</b>		Scrapers	1	0.125			0
<b>PM2.5</b>	<b>3.31</b>							0
							<b>Acres</b>	<b>1.31</b>
	<b>Acres</b>	<b>25</b>	<b>50</b>		<b>100</b>		<b>200</b>	<b>500</b>
NOx	1	103	104		121		159	252
	2	147	143		156		186	269
		117	116		132		167	257
CO	1	522	685		1014		1975	6531
	2	762	1010		1395		2444	7121
		597	787		1133		2122	6715
PM10	1	4	10		24		53	137
	2	6	17		31		60	145
		5	12		26		55	140
PM2.5	1	3	4		9		20	74
	2	4	6		11		24	79
		3	5		10		21	76
North Orange County								
	<b>1.31 Acres</b>							
	<b>25</b>	<b>50</b>	<b>100</b>		<b>200</b>		<b>500</b>	
NOx	117	116	132		167		257	
CO	597	787	1133		2122		6715	
PM10	5	12	26		55		140	
PM2.5	3	5	10		21		76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
16	1	16	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008



## 5. South Coast Air Basin Air Quality Trends

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## **Air Quality Improvement Trends in the Air Basin**

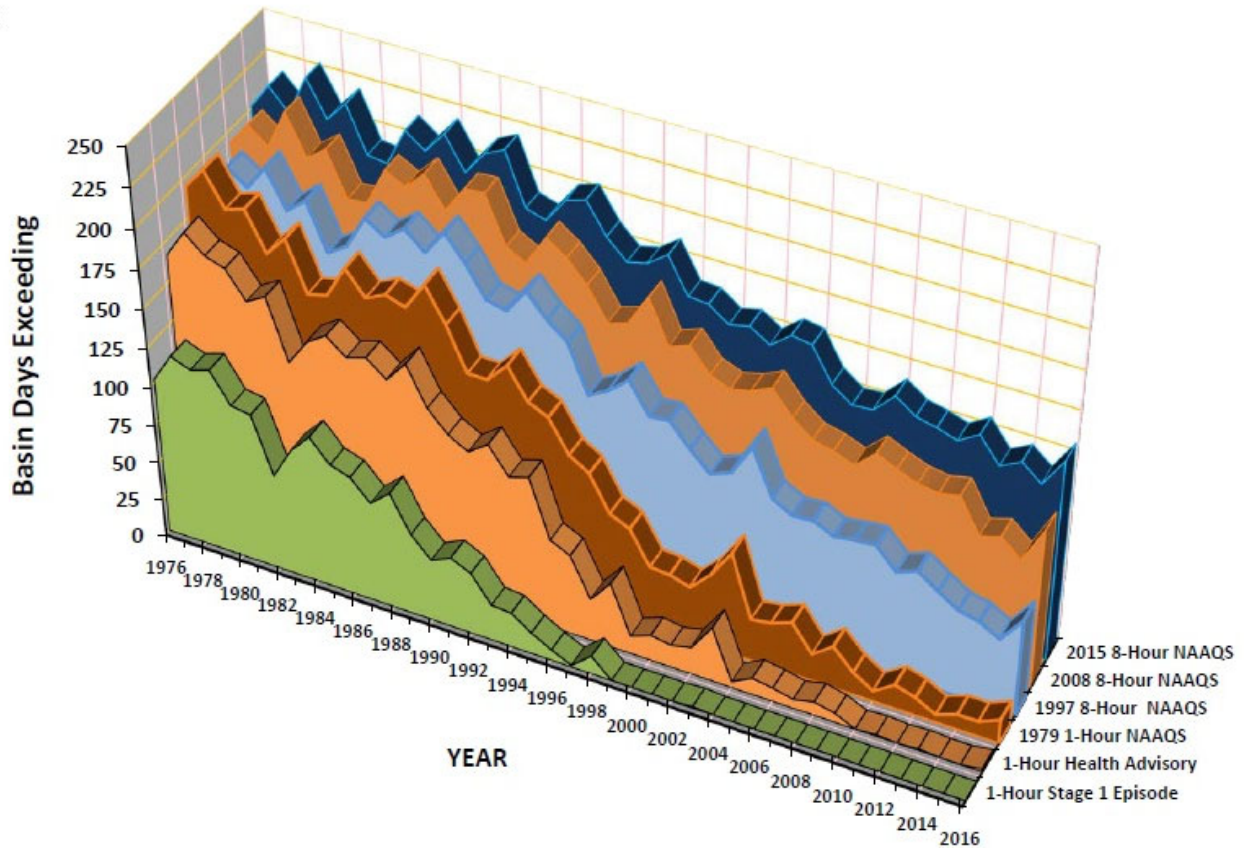
SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SoCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SoCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SoCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SoCAB. The historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs and by utilizing uniform CEQA review throughout the SoCAB.

The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs," (SCAQMD 2012). Ozone, NO<sub>x</sub>, VOC, and CO have been decreasing in the SoCAB since 1975 and are projected to continue to decrease through 2020 (CARB 2009; CARB 2013). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled in the SoCAB continue to increase, NO<sub>x</sub> and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO<sub>x</sub> emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. Ozone contour maps show that the number of days exceeding the national 8-hour standard has decreased between 1997 and 2007. In the 2007 period, there was an overall decrease in exceedance days compared with the 1997 period. The overall trends of PM<sub>10</sub> and PM<sub>2.5</sub> in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM<sub>10</sub> have remained somewhat constant in the SoCAB and direct emissions of PM<sub>2.5</sub> have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction and demolition, and other sources) contribute the greatest amount of direct particulate matter emissions.

Ozone levels in the SoCAB have decreased substantially over the last 30 years as shown in Exhibit 1, *South Coast Air Basin Ozone Trend* (SCAQMD 2018). Today, the maximum measured concentrations are approximately one-third of concentrations within the late 70's.

Exhibit 1: South Coast Air Basin Ozone Trend



As with other pollutants, the most recent PM<sub>10</sub> statistics also show overall improvement as illustrated in Exhibit 2, *South Coast Air Basin PM<sub>10</sub> Trend*. During the period for which data are available, the 24-hour national annual average decreased by almost 45 percent, from 103.7  $\mu\text{g}/\text{m}^3$  in 1989 to 57.6  $\mu\text{g}/\text{m}^3$  in 2014. Although the values in the late 1990's show some variability, this is probably due to meteorology rather than a change in emissions. Despite the overall decrease, ambient concentrations still exceed the State annual and 24-hour PM<sub>10</sub> standards. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM<sub>10</sub> standards has also shown an overall drop. During 1995, there were 25 calculated days above the national standard. By 2014, there was one calculated national standard exceedance days (CARB 2018b).

**Exhibit 5.2-2: South Coast Air Basin PM<sub>10</sub> Trend**

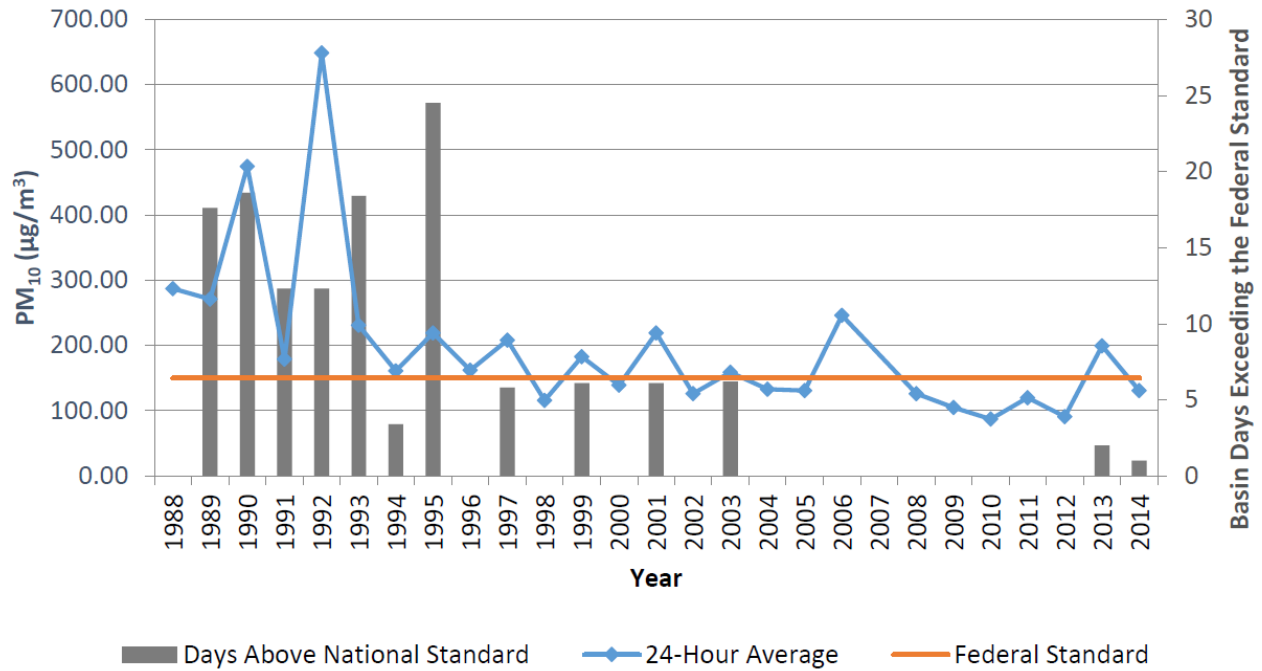
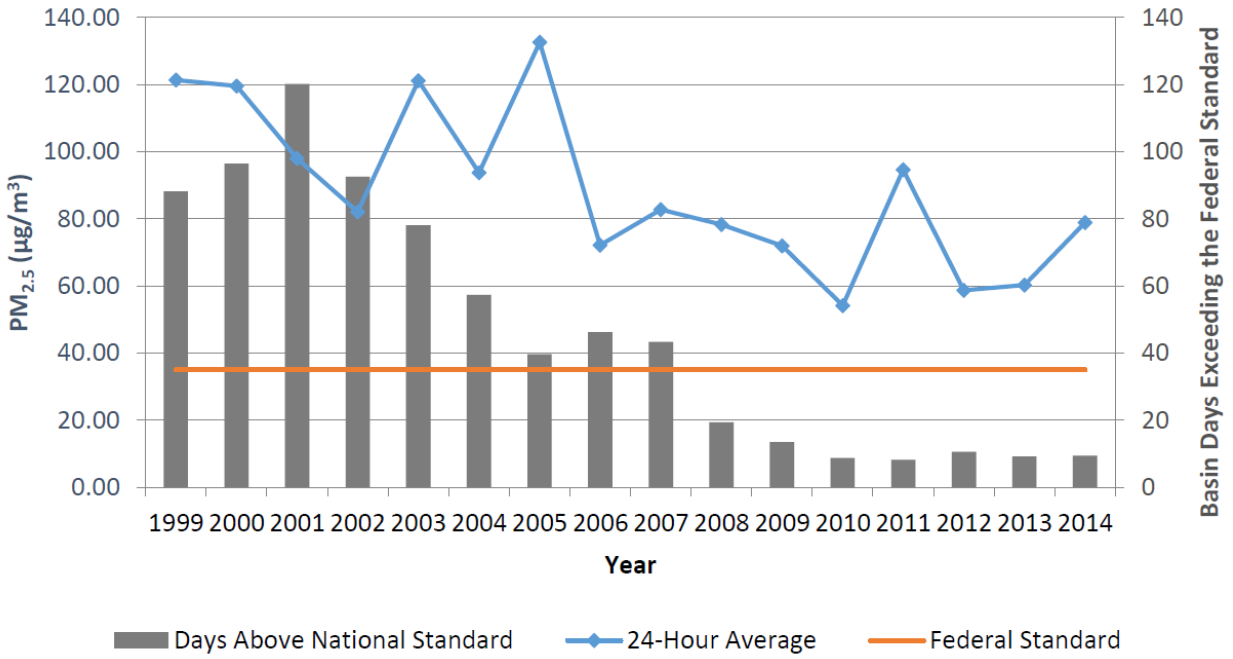


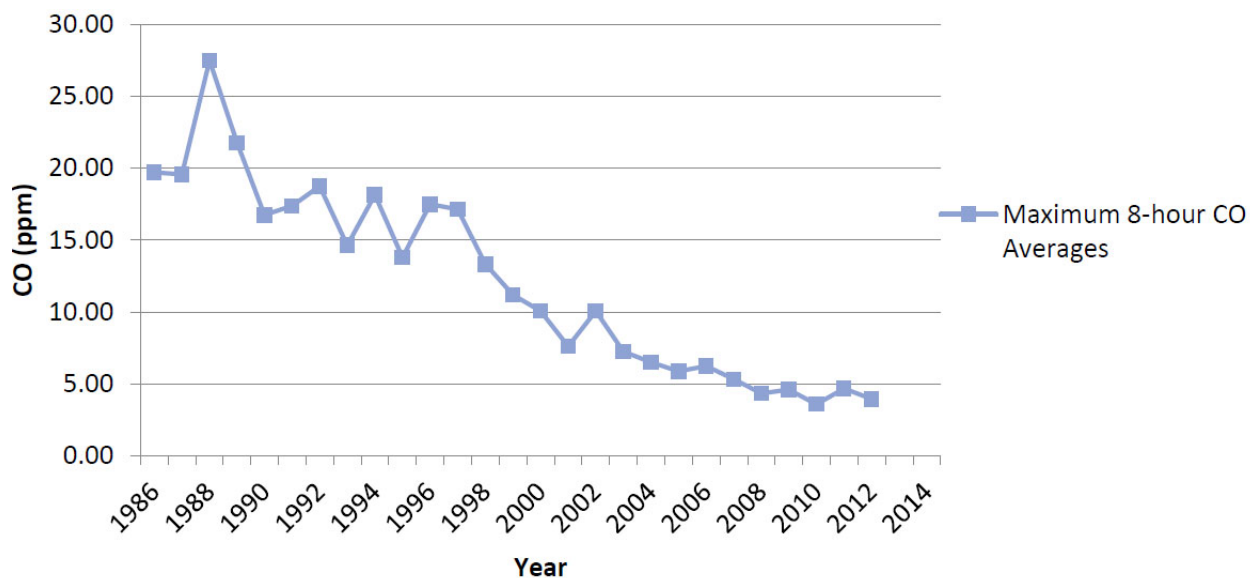
Exhibit 3, *South Coast Air Basin PM<sub>2.5</sub> Trend*, shows the most recent 24-hour average PM<sub>2.5</sub> concentrations (national) in the SoCAB from 1999 through 2014. Overall, the annual average concentrations have decreased by almost 52 percent. The calculated number of days above the national standard also decreased, from about 88 days in 1999 to about 9 days in 2014. The SoCAB is currently designated as nonattainment for the State and national PM<sub>2.5</sub> standards. Measures adopted as part of the upcoming PM<sub>2.5</sub> SIP, as well as programs to reduce ozone and diesel PM will help in reducing public exposure to PM<sub>2.5</sub> in this region.

**Exhibit 3: South Coast Air Basin PM<sub>2.5</sub> Trend**



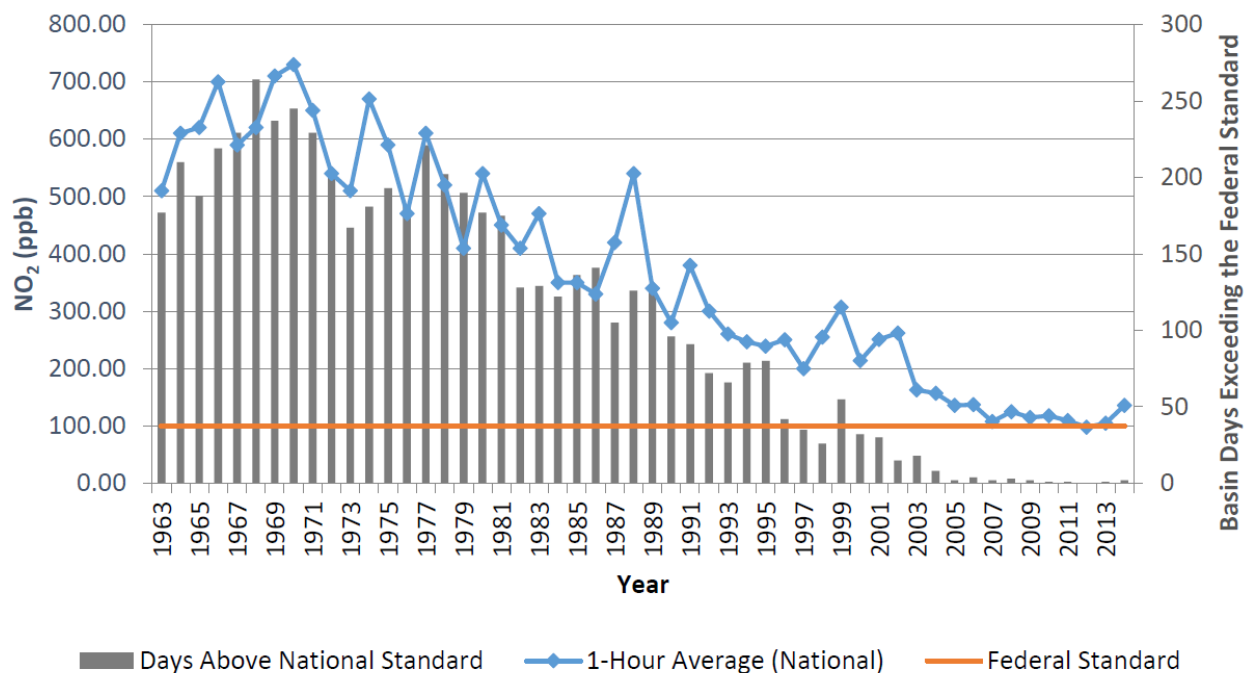
Recent carbon dioxide concentrations in the SoCAB are shown in Exhibit 4, *South Coast Air Basin Carbon Monoxide Trend* (CARB 2018a). Carbon monoxide concentrations in the SoCAB have decreased markedly — a total decrease of more about 80 percent in the peak 8-hour concentration since 1986. The number of exceedance days has also declined. The entire SoCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

**Exhibit 4: South Coast Air Basin Carbon Monoxide Trend**



Recent NO<sub>2</sub> data for the SoCAB is shown in Exhibit 5, *South Coast Air Basin Nitrogen Dioxide Trend* (CARB 2018a). Over the last 50 years, NO<sub>2</sub> values have decreased significantly; the peak 1-hour average for 2013 was almost 74 percent lower than what it was during 1963. The SoCAB attained the State 1-hour NO<sub>2</sub> standard in 1994, bringing the entire State into attainment. A new state annual average standard of 0.030 parts per million was adopted by the ARB in February 2007 (CARB 2011). The new standard is just barely exceeded in the South Coast. NO<sub>2</sub> is formed from NO<sub>x</sub> emissions, which also contribute to ozone. As a result, the majority of the future emission control measures will be implemented as part of the overall ozone control strategy. Many of these control measures will target mobile sources, which account for more than three-quarters of California's NO<sub>x</sub> emissions. These measures are expected to bring the South Coast into attainment of the State annual average standard.

**Exhibit 5: South Coast Air Basin Nitrogen Dioxide Trend**



### **Toxic Air Contaminants Trends**

In 1984, as a result of public concern for exposure to airborne carcinogens, the CARB adopted regulations to reduce the amount of air toxic contaminant emissions resulting from mobile and area sources, such as cars, trucks, stationary products, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (Propper 2015). The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

### **Mobile Source TACs**

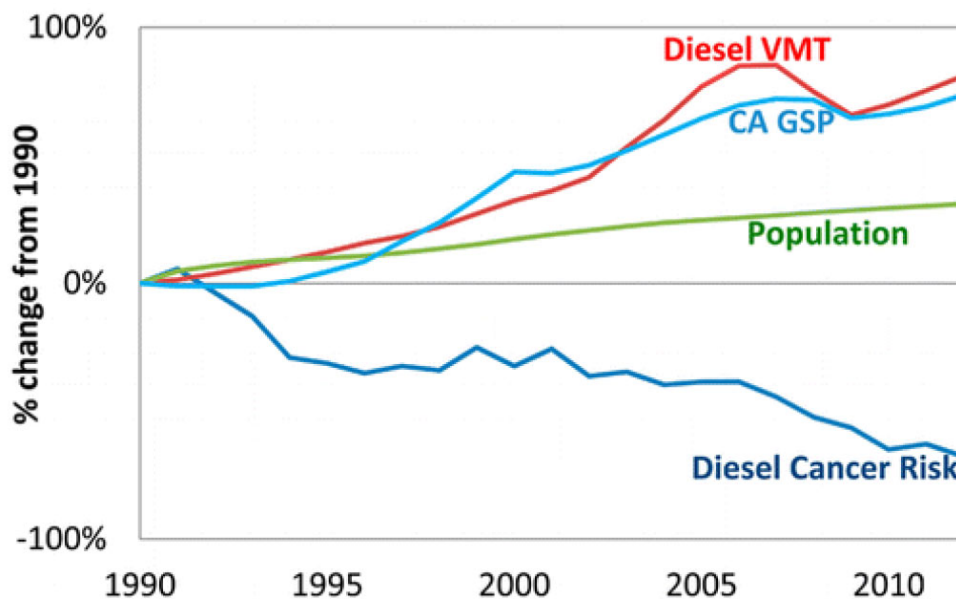
The CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. Since 1996, light-duty vehicles sold in California are equipped with California’s second-generation On-Board Diagnostic (OBD-II) system as a result of about half of total car emissions stemming from emissions control device malfunctions. CARB’s phase II Reformulated Gasoline (RFG-2) regulation, adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the motor vehicle regulations (Propper 2015).

In 2000, CARB’s Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68%, even though the state’s population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown in Exhibit 6, *California Population, Gross State Product, Diesel Cancer*



Risk, Diesel Vehicle Miles Traveled. With the implementation of these diesel-related control regulations, ARB expects a DPM decline of 71% for 2000-2020.

**Exhibit 6: California Population, Gross State Product, Diesel Cancer Risk, Diesel Vehicle Miles Traveled**



### **Stationary Source TACs**

Various regulations led to a decrease in perchloroethylene and hexavalent chromium, with a 92% and 86% decline, respectively. By 1993, several local air districts required dry cleaning businesses to use a carbon absorber and refrigerated condenser, as well as, dry-to-dry machines and closed-looped machines instead of vented transfer machines. Starting in 2003, California provided financial incentives for dry cleaners to use other solvents and soon after, the CARB banned the use of perchloroethylene in automotive products, aerosol coatings, and most consumer products. In 2007, CARB's dry-cleaning regulation was amended to require phase-out of perchloroethylene machines by 2023, which would further reduce emissions to minimal levels (Propper 2015).

Hexavalent chromium emissions began to decline in 1988 with the ARB-regulated regulations contributing to more than 97% emission reduction within four years. The various regulations include prohibiting the use of hexavalent chromium in cooling towers (1989), in motor vehicle and mobile equipment coatings (2001), and in thermal spraying operations (2005). By 2005, hexavalent chromium emissions were 99.97% less than in 1987, far exceeding expectations. In 2006, hexavalent chromium emissions were further reduced with the 2006 ARB regulation requiring add-on air pollution control devices and chemical fume suppressants.

### **Secondary TACs**

Between 1996-2012, ambient concentrations of formaldehyde and acetaldehyde declined 22% and 21%, respectively. The decline in these TACs are attributed from increasingly stringent motor vehicle exhaust emission standards, vehicle fleet turnover, fuel reformulation, and the switch from MTBE (formaldehyde precursor) to ethanol in gasoline (Propper 2015).

As previously discussed, ambient and emissions levels of TACs have reduced significantly from 1990-2012. The overall declining trend in TACs is expected to continue in California from implementation of toxic air controls.

### *Diesel Regulations*

The CARB and the Ports of Los Angeles and Long Beach have adopted several iterations of regulations for diesel trucks that are aimed at reducing diesel particulate matter (DPM). More specifically, the CARB Drayage Truck Regulation (CARB 2017b), the CARB statewide On-road Truck and Bus Regulation (CARB 2017c), and the Ports of Los Angeles and Long Beach “Clean Truck Program” (CTP) require accelerated implementation of “clean trucks” into the statewide truck fleet (Los Angeles 2018). Older more polluting trucks will be replaced with newer, cleaner trucks as a function of these regulatory requirements. Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDDT), in terms of grams of DPM generated per mile traveled, will dramatically be reduced due to the aforementioned regulatory requirements.

### *Cancer Risk Trends*

Based on information available from CARB, overall cancer risk throughout the SoCAB has had a declining trend since 1990. As previously stated, based on the MATES IV study, the estimated basinwide population-weighted risk decreased by approximately 57 percent since MATES III (SCAQMD 2015). MATES IV modeling predicted an excess cancer risk of 482.86 in one million for the project area.

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5. South Coast Air Quality Management  
District Friant Ranch Amicus Curiae

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IN THE SUPREME COURT OF CALIFORNIA

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SIERRA CLUB, REVIVE THE SAN JOAQUIN, and  
LEAGUE OF WOMEN VOTERS OF FRESNO,

Plaintiffs and Appellants,

v.

COUNTY OF FRESNO,

Defendant and Respondent,

and,

FRIANT RANCH, L.P.,

Real Party in Interest and Respondent.

SUPREME COURT  
FILED

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Frank A. McGuire Clerk  
Deputy

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After a Published Decision by the Court of Appeal, filed May 27, 2014  
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno  
Case No. 11CECG00726  
Honorable Rosendo A. Pena, Jr.

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**APPLICATION OF THE SOUTH COAST AIR QUALITY  
MANAGEMENT DISTRICT FOR LEAVE TO FILE  
BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY  
AND [*PROPOSED*] BRIEF OF *AMICUS CURIAE***

---

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**TO THE HONORABLE CHIEF JUSTICE AND JUSTICES OF THE  
SUPREME COURT:**

**APPLICATION FOR LEAVE TO FILE *AMICUS CURIAE* BRIEF**

Pursuant to Rule 8.520(f) of the California Rules of Court, the South Coast Air Quality Management District (SCAQMD) respectfully requests leave to file the attached *amicus curiae* brief. Because SCAQMD's position differs from that of either party, we request leave to submit this *amicus* brief in support of neither party.

**HOW THIS BRIEF WILL ASSIST THE COURT**

SCAQMD's proposed *amicus* brief takes a position on two of the issues in this case. In both instances, its position differs from that of either party. The issues are:

- 1) Does the California Environmental Quality Act (CEQA) require an environmental impact report (EIR) to correlate a project's air pollution emissions with specific levels of health impacts?
- 2) What is the proper standard of review for determining whether an EIR provides sufficient information on the health impacts caused by a project's emission of air pollutants?

This brief will assist the Court by discussing the practical realities of correlating identified air quality impacts with specific health outcomes. In short, CEQA requires agencies to provide detailed information about a project's air quality impacts that is sufficient for the public and decisionmakers to adequately evaluate the project and meaningfully understand its impacts. However, the level of analysis is governed by a rule of reason; CEQA only requires agencies to conduct analysis if it is reasonably feasible to do so.

With regard to health-related air quality impacts, an analysis that correlates a project's air pollution emissions with specific levels of health impacts will be feasible in some cases but not others. Whether it is feasible depends on a variety of factors, including the nature of the project and the nature of the analysis under consideration. The feasibility of analysis may also change over time as air districts and others develop new tools for measuring projects' air quality related health impacts. Because SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, it is uniquely situated to express an opinion on the extent to which the Court should hold that CEQA requires lead agencies to correlate air quality impacts with specific health outcomes.

SCAQMD can also offer a unique perspective on the question of the appropriate standard of review. SCAQMD submits that the proper standard of review for determining whether an EIR is sufficient as an informational document is more nuanced than argued by either party. In our view, this is a mixed question of fact and law. It includes determining whether additional analysis is feasible, which is primarily a factual question that should be reviewed under the substantial evidence standard. However, it also involves determining whether the omission of a particular analysis renders an EIR insufficient to serve CEQA's purpose as a meaningful, informational document. If a lead agency has not determined that a requested analysis is infeasible, it is the court's role to determine whether the EIR nevertheless meets CEQA's purposes, and courts should not defer to the lead agency's conclusions regarding the legal sufficiency of an EIR's analysis. The ultimate question of whether an EIR's analysis is "sufficient" to serve CEQA's informational purposes is predominately a question of law that courts should review de novo.

This brief will explain the rationale for these arguments and may assist the Court in reaching a conclusion that accords proper respect to a lead agency's factual conclusions while maintaining judicial authority over the ultimate question of what level of analysis CEQA requires.

### **STATEMENT OF INTEREST OF *AMICUS CURIAE***

The SCAQMD is the regional agency primarily responsible for air pollution control in the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of the Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410; Cal. Code Regs., tit. 17, § 60104.) The SCAQMD participates in the CEQA process in several ways. Sometimes it acts as a lead agency that prepares CEQA documents for projects. Other times it acts as a responsible agency when it has permit authority over some part of a project that is undergoing CEQA review by a different lead agency. Finally, SCAQMD also acts as a commenting agency for CEQA documents that it receives because it is a public agency with jurisdiction by law over natural resources affected by the project.

In all of these capacities, SCAQMD will be affected by the decision in this case. SCAQMD sometimes submits comments requesting that a lead agency perform an additional type of air quality or health impacts analysis. On the other hand, SCAQMD sometimes determines that a particular type of health impact analysis is not feasible or would not produce reliable and informative results. Thus, SCAQMD will be affected by the Court's resolution of the extent to which CEQA requires EIRs to correlate emissions and health impacts, and its resolution of the proper standard of review.

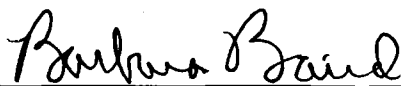
**CERTIFICATION REGARDING AUTHORSHIP AND FUNDING**

No party or counsel in the pending case authored the proposed amicus curiae brief in whole or in part, or made any monetary contribution intended to fund the preparation or submission of the brief. No person or entity other than the proposed *Amicus Curiae* made any monetary contribution intended to fund the preparation or submission of the brief.

Respectfully submitted,

DATED: April 3, 2015

SOUTH COAST AIR QUALITY  
MANAGEMENT DISTRICT  
KURT R. WIESE, GENERAL COUNSEL  
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*Attorneys for [proposed] Amicus Curiae*  
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*MANAGEMENT DISTRICT*

## BRIEF OF AMICUS CURIAE

### SUMMARY OF ARGUMENT

The South Coast Air Quality Management District (SCAQMD) submits that this Court should not try to establish a hard-and-fast rule concerning whether lead agencies are required to correlate emissions of air pollutants with specific health consequences in their environmental impact reports (EIR). The level of detail required in EIRs is governed by a few, core CEQA (California Environmental Quality Act) principles. As this Court has stated, “[a]n EIR must include detail sufficient to enable those who did not participate in its preparation to understand and to consider meaningfully the issues raised by the proposed project.” (*Laurel Heights Improvement Assn. v. Regents of the Univ of Cal.* (1988) 47 Cal.3d 376, 405 [*“Laurel Heights I”*]) Accordingly, “an agency must use its best efforts to find out and disclose all that it reasonably can.” (*Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal.4th 412, 428 (quoting CEQA Guidelines § 15144)<sup>1</sup>). However, “[a]nalysis of environmental effects need not be exhaustive, but will be judged in light of what is reasonably feasible.” (*Association of Irrigated Residents v. County of Madera* (2003) 107 Cal.App.4th 1383, 1390; CEQA Guidelines §§ 15151, 15204(a).)

With regard to analysis of air quality related health impacts, EIRs must generally quantify a project’s pollutant emissions, but in some cases it is not feasible to correlate these emissions to specific, quantifiable health impacts (e.g., premature mortality; hospital admissions). In such cases, a general description of the adverse health impacts resulting from the pollutants at issue may be sufficient. In other cases, due to the magnitude

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<sup>1</sup> The CEQA Guidelines are found at Cal. Code Regs., tit. 14 §§ 15000, *et seq.*



or nature of the pollution emissions, as well as the specificity of the project involved, it may be feasible to quantify health impacts. Or there may be a less exacting, but still meaningful analysis of health impacts that can feasibly be performed. In these instances, agencies should disclose those impacts.

SCAQMD also submits that whether or not an EIR complies with CEQA's informational mandates by providing sufficient, feasible analysis is a mixed question of fact and law. Pertinent here, the question of whether an EIR's discussion of health impacts from air pollution is sufficient to allow the public to understand and consider meaningfully the issues involves two inquiries: (1) Is it feasible to provide the information or analysis that a commenter is requesting or a petitioner is arguing should be required?; and (2) Even if it is feasible, is the agency relying on other policy or legal considerations to justify not preparing the requested analysis? The first question of whether an analysis is feasible is primarily a question of fact that should be judged by the substantial evidence standard. The second inquiry involves evaluating CEQA's information disclosure purposes against the asserted reasons to not perform the requested analysis. For example, an agency might believe that its EIR meets CEQA's informational disclosure standards even without a particular analysis, and therefore choose not to conduct that analysis. SCAQMD submits that this is more of a legal question, which should be reviewed de novo as a question of law.

## **ARGUMENT**

### **I. RELEVANT FACTUAL AND LEGAL FRAMEWORK.**

#### **A. Air Quality Regulatory Background**

The South Coast Air Quality Management District (SCAQMD) is one of the local and regional air pollution control districts and air quality

management districts in California. The SCAQMD is the regional air pollution agency for the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410, 17 Cal. Code Reg. § 60104.) The SCAQMD also includes the Coachella Valley in Riverside County (Palm Springs area to the Salton Sea). (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, <http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan>; then follow “chapter 7” hyperlink; pp 7-1, 7-3 (last visited Apr. 1, 2015).) The SCAQMD's jurisdiction includes over 16 million residents and has the worst or nearly the worst air pollution levels in the country for ozone and fine particulate matter. (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, <http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan>; then follow “Executive Summary” hyperlink p. ES-1 (last visited Apr. 1, 2015).)

Under California law, the local and regional districts are primarily responsible for controlling air pollution from all sources except motor vehicles. (Health & Saf. Code § 40000.) The California Air Resources Board (CARB), part of the California Environmental Protection Agency, is primarily responsible for controlling pollution from motor vehicles. (*Id.*) The air districts must adopt rules to achieve and maintain the state and federal ambient air quality standards within their jurisdictions. (Health & Saf. Code § 40001.)

The federal Clean Air Act (CAA) requires the United States Environmental Protection Agency (EPA) to identify pollutants that are widely distributed and pose a threat to human health, developing a so-called “criteria” document. (42 U.S.C. § 7408; CAA § 108.) These pollutants are frequently called “criteria pollutants.” EPA must then establish “national ambient air quality standards” at levels “requisite to protect public health”,

allowing “an adequate margin of safety.” (42 U.S.C. § 7409; CAA § 109.) EPA has set standards for six identified pollutants: ozone, nitrogen dioxide, sulfur dioxide, carbon monoxide, particulate matter (PM), and lead. (U.S. EPA, National Ambient Air Quality Standards (NAAQS), <http://www.epa.gov/air/criteria.html> (last updated Oct. 21, 2014).)<sup>2</sup>

Under the Clean Air Act, EPA sets emission standards for motor vehicles and “nonroad engines” (mobile farm and construction equipment, marine vessels, locomotives, aircraft, etc.). (42 U.S.C. §§ 7521, 7547; CAA §§ 202, 213.) California is the only state allowed to establish emission standards for motor vehicles and most nonroad sources; however, it may only do so with EPA's approval. (42 U.S.C. §§ 7543(b), 7543(e); CAA §§ 209(b), 209(c).) Sources such as manufacturing facilities, power plants and refineries that are not mobile are often referred to as “stationary sources.” The Clean Air Act charges state and local agencies with the primary responsibility to attain the national ambient air quality standards. (42 U.S.C. § 7401(a)(3); CAA § 101(a)(3).) Each state must adopt and implement a plan including enforceable measures to achieve and maintain the national ambient air quality standards. (42 U.S.C. § 7410; CAA § 110.) The SCAQMD and CARB jointly prepare portion of the plan for the South Coast Air Basin and submit it for approval by EPA. (Health & Saf. Code §§ 40460, et seq.)

The Clean Air Act also requires state and local agencies to adopt a permit program requiring, among other things, that new or modified “major” stationary sources use technology to achieve the “lowest achievable emission rate,” and to control minor stationary sources as

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<sup>2</sup> Particulate matter (PM) is further divided into two categories: fine particulate or PM<sub>2.5</sub> (particles with a diameter of less than or equal to 2.5 microns) and coarse particulate (PM<sub>10</sub>) (particles with a diameter of 10 microns or less). (U.S. EPA, Particulate Matter (PM), <http://www.epa.gov/airquality/particulatepollution/> (last visited Apr. 1, 2015).)

needed to help attain the standards. (42 U.S.C. §§ 7502(c)(5), 7503(a)(2), 7410(a)(2)(C); CAA §§ 172(c)(5), 173(a)(2), 110(a)(2)(C).) The air districts implement these permit programs in California. (Health & Saf. Code §§ 42300, et seq.)

The Clean Air Act also sets out a regulatory structure for over 100 so-called “hazardous air pollutants” calling for EPA to establish “maximum achievable control technology” (MACT) for sources of these pollutants. (42 U.S.C. § 7412(d)(2); CAA § 112(d)(2).) California refers to these pollutants as “toxic air contaminants” (TACs) which are subject to two state-required programs. The first program requires “air toxics control measures” for specific categories of sources. (Health & Saf. Code § 39666.) The other program requires larger stationary sources and sources identified by air districts to prepare “health risk assessments” for impacts of toxic air contaminants. (Health & Saf. Code §§ 44320(b), 44322, 44360.) If the health risk exceeds levels identified by the district as “significant,” the facility must implement a “risk reduction plan” to bring its risk levels below “significant” levels. Air districts may adopt additional more stringent requirements than those required by state law, including requirements for toxic air contaminants. (Health & Saf. Code § 41508; *Western Oil & Gas Assn. v. Monterey Bay Unified APCD* (1989) 49 Cal.3d 408, 414.) For example, SCAQMD has adopted a rule requiring new or modified sources to keep their risks below specified levels and use best available control technology (BACT) for toxics. (SCAQMD, *Rule 1401-New Source Review of Toxic Air Contaminants*, <http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiv>; then follow “Rule 1401” hyperlink (last visited Apr. 1, 2015).)

## **B. The SCAQMD's Role Under CEQA**

The California Environmental Quality Act (CEQA) requires public agencies to perform an environmental review and appropriate analysis for projects that they implement or approve. (Pub. Resources Code § 21080(a).) The agency with primary approval authority for a particular project is generally the “lead agency” that prepares the appropriate CEQA document. (CEQA Guidelines §§ 15050, 15051.) Other agencies having a subsequent approval authority over all or part of a project are called “responsible” agencies that must determine whether the CEQA document is adequate for their use. (CEQA Guidelines §§ 15096(c), 15381.) Lead agencies must also consult with and circulate their environmental impact reports to “trustee agencies” and agencies “with jurisdiction by law” including “authority over resources which may be affected by the project.” (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines §§ 15086(a)(3), 15073(c).) The SCAQMD has a role in all these aspects of CEQA.

Fulfilling its responsibilities to implement its air quality plan and adopt rules to attain the national ambient air quality standards, SCAQMD adopts a dozen or more rules each year to require pollution reductions from a wide variety of sources. The SCAQMD staff evaluates each rule for any adverse environmental impact and prepares the appropriate CEQA document. Although most rules reduce air emissions, they may have secondary environmental impacts such as use of water or energy or disposal of waste—e.g., spent catalyst from control equipment.<sup>3</sup>

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<sup>3</sup> The SCAQMD's CEQA program for its rules is a “Certified Regulatory Program” under which it prepares a “functionally equivalent” document in lieu of a negative declaration or EIR. (Pub. Resources Code § 21080.5, CEQA Guidelines § 15251(l).)

The SCAQMD also approves a large number of permits every year to construct new, modified, or replacement facilities that emit regulated air pollutants. The majority of these air pollutant sources have already been included in an earlier CEQA evaluation for a larger project, are currently being evaluated by a local government as lead agency, or qualify for an exemption. However, the SCAQMD sometimes acts as lead agency for major projects where the local government does not have a discretionary approval. In such cases, SCAQMD prepares and certifies a negative declaration or environmental impact report (EIR) as appropriate.<sup>4</sup> SCAQMD evaluates perhaps a dozen such permit projects under CEQA each year. SCAQMD is often also a “responsible agency” for many projects since it must issue a permit for part of the projects (e.g., a boiler used to provide heat in a commercial building). For permit projects evaluated by another lead agency under CEQA, SCAQMD has the right to determine that the CEQA document is inadequate for its purposes as a responsible agency, but it may not do so because its permit program already requires all permitted sources to use the best available air pollution control technology. (SCAQMD, *Rule 1303(a)(1) – Requirements*, <http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiii>; then follow “Rule 1303” hyperlink (last visited Apr. 1, 2015).)

Finally, SCAQMD receives as many as 60 or more CEQA documents each month (around 500 per year) in its role as commenting agency or an agency with “jurisdiction by law” over air quality—a natural resource affected by the project. (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines § 15366(a)(3).) The SCAQMD staff provides comments on as many as 25 or 30 such documents each month.

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<sup>4</sup> The SCAQMD's permit projects are not included in its Certified Regulatory Program, and are evaluated under the traditional local government CEQA analysis. (Pub. Resources Code §§ 21150-21154.)

(SCAQMD Governing Board Agenda, Apr. 3, 2015, Agenda Item 16, Attachment A, <http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-april-3-2015>; then follow “16. Lead Agency Projects and Environmental Documents Received by SCAQMD” hyperlink (last visited Apr. 1, 2015).) Of course, SCAQMD focuses its commenting efforts on the more significant projects.

Typically, SCAQMD comments on the adequacy of air quality analysis, appropriateness of assumptions and methodology, and completeness of the recommended air quality mitigation measures. Staff may comment on the need to prepare a health risk assessment detailing the projected cancer and noncancer risks from toxic air contaminants resulting from the project, particularly the impacts of diesel particulate matter, which CARB has identified as a toxic air contaminant based on its carcinogenic effects. (California Air Resources Board, Resolution 98-35, Aug. 27, 1998, <http://www.arb.ca.gov/regact/diesltac/diesltac.htm>; then follow Resolution 98-35 hyperlink (last visited Apr. 1, 2015).) Because SCAQMD already requires new or modified stationary sources of toxic air contaminants to use the best available control technology for toxics and to keep their risks below specified levels, (SCAQMD Rule 1401, *supra*, note 15), the greatest opportunity to further mitigate toxic impacts through the CEQA process is by reducing emissions—particularly diesel emissions—from vehicles.

**II. THIS COURT SHOULD NOT SET A HARD-AND-FAST RULE CONCERNING THE EXTENT TO WHICH AN EIR MUST CORRELATE A PROJECT’S EMISSION OF POLLUTANTS WITH RESULTING HEALTH IMPACTS.**

Numerous cases hold that courts do not review the correctness of an EIR's conclusions but rather its sufficiency as an informative document. (*Laurel Heights 1*, *supra*, 47 Cal.3d at p. 392; *Citizens of Goleta Valley v.*

*Bd. of Supervisors* (1990) 52 Cal.3d 553, 569; *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1197.)

As stated by the Court of Appeal in this case, where an EIR has addressed a topic, but the petitioner claims that the information provided about that topic is insufficient, courts must “draw[] a line that divides *sufficient* discussions from those that are *insufficient*.” (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) The Court of Appeal readily admitted that “[t]he terms themselves – sufficient and insufficient – provide little, if any, guidance as to where the line should be drawn. They are simply labels applied once the court has completed its analysis.” (*Id.*)

The CEQA Guidelines, however, provide guidance regarding what constitutes a sufficient discussion of impacts. Section 15151 states that “the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible.” Case law reflects this: “Analysis of environmental effects need not be exhaustive, but will be judged in light of what was reasonably feasible.” (*Association of Irrigated Residents v. County of Madera, supra*, 107 Cal.App.4th at p. 1390; see also CEQA Guidelines § 15204(a).)

Applying this test, this Court cannot realistically establish a hard-and-fast rule that an analysis correlating air pollution impacts of a project to quantified resulting health impacts is always required, or indeed that it is never required. Simply put, in some cases such an analysis will be “feasible”; in some cases it will not.

For example, air pollution control districts often require a proposed new source of toxic air contaminants to prepare a “health risk assessment” before issuing a permit to construct. District rules often limit the allowable cancer risk the new source may cause to the “maximally exposed individual” (worker and residence exposures). (*See, e.g.*, SCAQMD Rule 1401(c)(8); 1401(d)(1), *supra* note 15.) In order to perform this analysis, it



is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence). (SCAQMD, *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act (AB2588)*, pp. 11-16; (last visited Apr. 1, 2015) <http://www.aqmd.gov/home/library/documents-support-material>; "Guidelines" hyperlink; AB2588; then follow AB2588 Risk Assessment Guidelines hyperlink.)

Thus, it is feasible to determine the health risk posed by a new gas station locating at an intersection in a mixed use area, where receptor locations are known. On the other hand, it may not be feasible to perform a health risk assessment for airborne toxics that will be emitted by a generic industrial building that was built on "speculation" (i.e., without knowing the future tenant(s)). Even where a health risk assessment can be prepared, however, the resulting maximum health risk value is only a calculation of risk—it does not necessarily mean anyone will contract cancer as a result of the project.

In order to find the "cancer burden" or expected additional cases of cancer resulting from the project, it is also necessary to know the numbers and location of individuals living within the "zone of impact" of the project: i.e., those living in areas where the projected cancer risk from the project exceeds one in a million. (SCAQMD, Health Risk Assessment Summary form, <http://www.aqmd.gov/home/forms>; filter by "AB2588" category; then "Health Risk Assessment" hyperlink (last visited Apr. 1, 2015).) The affected population is divided into bands of those exposed to at least 1 in a million risk, those exposed to at least 10 in a million risk, etc. up to those exposed at the highest levels. (*Id.*) This data allows agencies to calculate an approximate number of additional cancer cases expected from

the project. However, it is not possible to predict which particular individuals will be affected.

For the so-called criteria pollutants<sup>5</sup>, such as ozone, it may be more difficult to quantify health impacts. Ozone is formed in the atmosphere from the chemical reaction of the nitrogen oxides (NO<sub>x</sub>) and volatile organic compounds (VOC) in the presence of sunlight. (U.S. EPA, Ground Level Ozone, <http://www.epa.gov/airquality/ozonepollution/> (last updated Mar. 25, 2015).) It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources. (U.S. EPA, *Guideline on Ozone Monitoring Site Selection* (Aug. 1998) EPA-454/R-98-002 § 5.1.2, <http://www.epa.gov/ttnamti1/archive/cpreldoc.html> (last visited Apr. 1, 2015).) NO<sub>x</sub> and VOC are known as “precursors” of ozone.

Scientifically, health effects from ozone are correlated with increases in the ambient level of ozone in the air a person breathes. (U.S. EPA, *Health Effects of Ozone in the General Population*, Figure 9, <http://www.epa.gov/apti/ozonehealth/population.html#levels> (last visited Apr. 1, 2015).) However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient ozone levels over an entire region. For example, the SCAQMD's 2012 AQMP showed that reducing NO<sub>x</sub> by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion. (South Coast Air Quality Management District, *Final 2012 AQMP (February 2013)*, <http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan>; then follow “Appendix V: Modeling & Attainment Demonstrations” hyperlink,

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<sup>5</sup> See discussion of types of pollutants, *supra*, Part I.A.

pp. v-4-2, v-7-4, v-7-24.) SCAQMD staff does not currently know of a way to accurately quantify ozone-related health impacts caused by NO<sub>x</sub> or VOC emissions from relatively small projects.

On the other hand, this type of analysis may be feasible for projects on a regional scale with very high emissions of NO<sub>x</sub> and VOCs, where impacts are regional. For example, in 2011 the SCAQMD performed a health impact analysis in its CEQA document for proposed Rule 1315, which authorized various newly-permitted sources to use offsets from the districts “internal bank” of emission reductions. This CEQA analysis accounted for essentially *all* the increases in emissions due to new or modified sources in the District between 2010 and 2030.<sup>6</sup> The SCAQMD was able to correlate this very large emissions increase (e.g., 6,620 pounds per day NO<sub>x</sub> (1,208 tons per year), 89,180 pounds per day VOC (16,275 tons per year)) to expected health outcomes from ozone and particulate matter (e.g., 20 premature deaths per year and 89,947 school absences in the year 2030 due to ozone).<sup>7</sup> (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System* (see hyperlink in fn 6) at p. 4.1-35, Table 4.1-29.)

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<sup>6</sup> (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, Attachment G, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System, Vol. 1, p.4.0-6*, <http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-february-4-2011>; the follow “26. Adopt Proposed Rule 1315 – Federal New Source Review Tracking System” (last visited April 1, 2015).)

<sup>7</sup> The SCAQMD was able to establish the location of future NO<sub>x</sub> and VOC emissions by assuming that new projects would be built in the same locations and proportions as existing stationary sources. This CEQA document was upheld by the Los Angeles County Superior Court in *Natural Res. Def. Council v SCAQMD*, Los Angeles Superior Court No. BS110792).

However, a project emitting only 10 tons per year of NO<sub>x</sub> or VOC is small enough that its regional impact on ambient ozone levels may not be detected in the regional air quality models that are currently used to determine ozone levels. Thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO<sub>x</sub> with specific health impacts from ozone. This is in part because ozone formation is not linearly related to emissions. Ozone impacts vary depending on the location of the emissions, the location of other precursor emissions, meteorology and seasonal impacts, and because ozone is formed some time later and downwind from the actual emission. (EPA Guideline on Ozone Monitoring Site Selection (Aug. 1998) EPA-454/R-98-002, § 5.1.2; <https://www.epa.gov/ttnamti1/archive/cpreldoc.html>; then search “Guideline on Ozone Monitoring Site Selection” click on pdf) (last viewed Apr. 1, 2015).)

SCAQMD has set its CEQA “significance” threshold for NO<sub>x</sub> and VOC at 10 tons per year (expressed as 55 lb/day). (SCAQMD, *Air Quality Analysis Handbook*, <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook>; then follow “SCAQMD Air Quality Significance Thresholds” hyperlink (last visited Apr. 1, 2015).) This is because the federal Clean Air Act defines a “major” stationary source for “extreme” ozone nonattainment areas such as SCAQMD as one emitting 10 tons/year. (42 U.S.C. §§ 7511a(e), 7511a(f); CAA §§ 182(e), 182(f).) Under the Clean Air Act, such sources are subject to enhanced control requirements (42 U.S.C. §§ 7502(c)(5), 7503; CAA §§ 172(c)(5), 173), so SCAQMD decided this was an appropriate threshold for making a CEQA “significance” finding and requiring feasible mitigation. Essentially, SCAQMD takes the position that a source that emits 10 tons/year of NO<sub>x</sub> or VOC would contribute cumulatively to ozone formation. Therefore, lead agencies that use SCAQMD’s thresholds of significance may determine

that many projects have “significant” air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts, unless the emissions are sufficiently high to use a regional modeling program.

In the case of particulate matter (PM<sub>2.5</sub>)<sup>8</sup>, another “criteria” pollutant, SCAQMD staff is aware of two possible methods of analysis. SCAQMD used regional modeling to predict expected health impacts from its proposed Rule 1315, as mentioned above. Also, the California Air Resources Board (CARB) has developed a methodology that can predict expected mortality (premature deaths) from large amounts of PM<sub>2.5</sub>. (California Air Resources Board, *Health Impacts Analysis: PM Premature Death Relationship*, [http://www.arb.ca.gov/research/health/pm-mort/pm-mort\\_arch.htm](http://www.arb.ca.gov/research/health/pm-mort/pm-mort_arch.htm) (last reviewed Jan. 19, 2012).) SCAQMD used the CARB methodology to predict impacts from three very large power plants (e.g., 731-1837 lbs/day). (Final Environmental Assessment for Rule 1315, *supra*, pp 4.0-12, 4.1-13, 4.1-37 (e.g., 125 premature deaths in the entire SCAQMD in 2030), 4.1-39 (0.05 to 1.77 annual premature deaths from power plants.) Again, this project involved large amounts of additional PM<sub>2.5</sub> in the District, up to 2.82 tons/day (5,650 lbs/day of PM<sub>2.5</sub>, or, or 1029 tons/year. (*Id.* at table 4.1-4, p. 4.1-10.)

However, the primary author of the CARB methodology has reported that this PM<sub>2.5</sub> health impact methodology is not suited for small projects and may yield unreliable results due to various uncertainties.<sup>9</sup> (SCAQMD, *Final Subsequent Mitigated Negative Declaration for: Warren*

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<sup>8</sup> SCAQMD has not attained the latest annual or 24-hour national ambient air quality standards for “PM<sub>2.5</sub>” or particulate matter less than 2.5 microns in diameter.

<sup>9</sup> Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts. (*Id.* at p. 2-24.)

*E&P, Inc. WTU Central Facility, New Equipment Project* (certified July 19, 2011), <http://www.aqmd.gov/home/library/documents-support-material/lead-agency-permit-projects/permit-project-documents---year-2011>; then follow “Final Subsequent Mitigated Negative Declaration for Warren E&P Inc. WTU Central Facility, New Equipment Project” hyperlink, pp. 2-22, 2-23 (last visited Apr. 1, 2015).) Therefore, when SCAQMD prepared a CEQA document for the expansion of an existing oil production facility, with very small PM<sub>2.5</sub> increases (3.8 lb/day) and a very small affected population, staff elected not to use the CARB methodology for using estimated PM<sub>2.5</sub> emissions to derive a projected premature mortality number and explained why it would be inappropriate to do so. (*Id.* at pp 2-22 to 2-24.) SCAQMD staff concluded that use of this methodology for such a small source could result in unreliable findings and would not provide meaningful information. (*Id.* at pp. 2-23, 2-25.) This CEQA document was not challenged in court.

In the above case, while it may have been technically possible to plug the data into the methodology, the results would not have been reliable or meaningful. SCAQMD believes that an agency should not be required to perform analyses that do not produce reliable or meaningful results. This Court has already held that an agency may decline to use even the “normal” “existing conditions” CEQA baseline where to do so would be misleading or without informational value. (*Neighbors for Smart Rail v. Exposition Metro Line* (2013) 57 Cal.4th 439, 448, 457.) The same should be true for a decision that a particular study or analysis would not provide reliable or meaningful results.<sup>10</sup>

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<sup>10</sup> Whether a particular study would result in “informational value” is a part of deciding whether it is “feasible.” CEQA defines “feasible” as “capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and

Therefore, it is not possible to set a hard-and-fast rule on whether a correlation of air quality impacts with specific quantifiable health impacts is required in all cases. Instead, the result turns on whether such an analysis is reasonably feasible in the particular case.<sup>11</sup> Moreover, what is reasonably feasible may change over time as scientists and regulatory agencies continually seek to improve their ability to predict health impacts. For example, CARB staff has been directed by its Governing Board to reassess and improve the methodology for estimating premature deaths. (California Air Resources Board, *Health Impacts Analysis: PM Mortality Relationship*, <http://www.arb.ca.gov/research/health/pm-mort/pm-mort.htm> (last reviewed Dec. 29, 2010).) This factor also counsels against setting any hard-and-fast rule in this case.

### **III. THE QUESTION OF WHETHER AN EIR CONTAINS SUFFICIENT ANALYSIS TO MEET CEQA'S REQUIREMENTS IS A MIXED QUESTION OF FACT AND LAW GOVERNED BY TWO DIFFERENT STANDARDS OF REVIEW.**

#### **A. Standard of Review for Feasibility Determination and Sufficiency as an Informative Document**

A second issue in this case is whether courts should review an EIR's informational sufficiency under the "substantial evidence" test as argued by Friant Ranch or the "independent judgment" test as argued by Sierra Club.

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technological factors." (Pub. Resources Code § 21061.1.) A study cannot be "accomplished in a *successful* manner" if it produces unreliable or misleading results.

<sup>11</sup> In this case, the lead agency did not have an opportunity to determine whether the requested analysis was feasible because the comment was non-specific. Therefore, SCAQMD suggests that this Court, after resolving the legal issues in the case, direct the Court of Appeal to remand the case to the lead agency for a determination of whether the requested analysis is feasible. Because Fresno County, the lead agency, did not seek review in this Court, it seems likely that the County has concluded that at least some level of correlation of air pollution with health impacts is feasible.

As this Court has explained, “a reviewing court must adjust its scrutiny to the nature of the alleged defect, depending on whether the claim is predominantly one of improper procedure or a dispute over the facts.” (*Vineyard Area Citizens v. City of Rancho Cordova, supra*, 40 Cal.4th at 435.) For questions regarding compliance with proper procedure or other legal questions, courts review an agency’s action de novo under the “independent judgment” test. (*Id.*) On the other hand, courts review factual disputes only for substantial evidence, thereby “accord[ing] greater deference to the agency’s substantive factual conclusions.” (*Id.*)

Here, Friant Ranch and Sierra Club agree that the case involves the question of whether an EIR includes sufficient information regarding a project’s impacts. However, they disagree on the proper standard of review for answering this question: Sierra Club contends that courts use the independent judgment standard to determine whether an EIR’s analysis is sufficient to meet CEQA’s informational purposes,<sup>12</sup> while Friant Ranch contends that the substantial evidence standard applies to this question.

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<sup>12</sup> Sierra Club acknowledges that courts use the substantial evidence standard when reviewing predicate factual issues, but argues that courts ultimately decide as a matter of law what CEQA requires. (Answering Brief, pp. 14, 23.)



SCAQMD submits that the issue is more nuanced than either party contends. We submit that, whether a CEQA document includes sufficient analysis to satisfy CEQA's informational mandates is a mixed question of fact and law,<sup>13</sup> containing two levels of inquiry that should be judged by different standards.<sup>14</sup>

The state CEQA Guidelines set forth standards for the adequacy of environmental analysis. Guidelines Section 15151 states:

An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection, but for adequacy, completeness, and a good-faith effort at full disclosure.

In this case, the basic question is whether the underlying analysis of air quality impacts made the EIR "sufficient" as an informative document. However, whether the EIR's analysis was sufficient is judged in light of what was reasonably feasible. This represents a mixed question of fact and law that is governed by two different standards of review.

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<sup>13</sup> Friant Ranch actually states that the claim that an EIR lacks sufficient relevant information is, "most properly thought of as raising mixed questions of fact and law." (Opening Brief, p. 27.) However, the remainder of its argument claims that the court should apply the substantial evidence standard of review to all aspects of the issue.

<sup>14</sup> Mixed questions of fact and law issues may implicate predominantly factual subordinate questions that are reviewed under the substantial evidence test even though the ultimate question may be reviewed by the independent judgment test. *Crocker National Bank v. City and County of San Francisco* (1989) 49 Cal.3d 881, 888-889.

SCAQMD submits that an EIR's sufficiency as an informational document is ultimately a legal question that courts should determine using their independent judgment. This Court's language in *Laurel Heights I* supports this position. As this Court explained: "The court does not pass upon the correctness of the EIR's environmental conclusions, but only upon its *sufficiency as an informative document*." (*Laurel Heights I, supra*, 47 Cal.3d at 392-393) (emphasis added.) As described above, the Court in *Vineyard Area Citizens v. City of Rancho Cordova, supra*, 40 Cal.4th at 431, also used its independent judgment to determine what level of analysis CEQA requires for water supply impacts. The Court did not defer to the lead agency's opinion regarding the law's requirements; rather, it determined for itself what level of analysis was necessary to meet "[t]he law's informational demands." (*Id.* at p. 432.) Further, existing case law also holds that where an agency fails to comply with CEQA's information disclosure requirements, the agency has "failed to proceed in the manner required by law." (*Save Our Peninsula Comm. v. Monterey County Bd. of Supervisors* (2001) 87 Cal.App.4th 99, 118.)

However, whether an EIR satisfies CEQA's requirements depends in part on whether it was reasonably feasible for an agency to conduct additional or more thorough analysis. EIRs must contain "a detailed statement" of a project's impacts (Pub. Res. Code § 21061), and an agency must "use its best efforts to find out and disclose all that it reasonably can." (CEQA Guidelines § 15144.) Nevertheless, "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." (CEQA Guidelines § 15151.)

SCAQMD submits that the question of whether additional analysis or a particular study suggested by a commenter is "feasible" is generally a question of fact. Courts have already held that whether a particular alternative is "feasible" is reviewed by the substantial evidence test.

(*Uphold Our Heritage v. Town of Woodside* (2007) 147 Cal.App.4th 587, 598-99; *Center for Biological Diversity v. County of San Bernardino* (2010) 185 Cal.App.4th 866, 883.) Thus, if a lead agency determines that a particular study or analysis is infeasible, that decision should generally be judged by the substantial evidence standard. However, SCAQMD urges this Court to hold that lead agencies must explain the basis of any determination that a particular analysis is infeasible in the EIR itself. An EIR must discuss information, including issues related to the feasibility of particular analyses “in sufficient detail to enable meaningful participation and criticism by the public. ‘[W]hatever is required to be considered in an EIR must be in that formal report; what any official might have known from other writings or oral presentations cannot supply what is lacking in the report.’” (*Laurel Heights I, supra*, 47 Cal.3d at p. 405 (quoting *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3d 818, 831) (discussing analysis of alternatives).) The evidence on which the determination is based should also be summarized in the EIR itself, with appropriate citations to reference materials if necessary. Otherwise commenting agencies such as SCAQMD would be forced to guess where the lead agency's evidence might be located, thus thwarting effective public participation.

Moreover, if a lead agency determines that a particular study or analysis would not result in reliable or useful information and for that reason is not feasible, that determination should be judged by the substantial evidence test. (See *Neighbors for Smart Rail v. Exposition Metro Line Construction Authority, supra*, 57 Cal.4th 439, 448, 457:

whether “existing conditions” baseline would be misleading or uninformative judged by substantial evidence standard.<sup>15</sup>)

If the lead agency’s determination that a particular analysis or study is not feasible is supported by substantial evidence, then the agency has not violated CEQA’s information disclosure provisions, since it would be infeasible to provide additional information. This Court’s decisions provide precedent for such a result. For example, this Court determined that the issue of whether the EIR should have included a more detailed discussion of future herbicide use was resolved because substantial evidence supported the agency’s finding that “the precise parameters of future herbicide use could not be predicted.” *Ebbetts Pass Forest Watch v. California Dept. of Forestry & Fire Protection* (2008) 43 Cal.4th 936, 955.

Of course, SCAQMD expects that courts will continue to hold lead agencies to their obligations to consult with, and not to ignore or misrepresent, the views of sister agencies having special expertise in the area of air quality. (*Berkeley Keep Jets Over the Bay v. Board of Port Commissioners* (2007) 91 Cal.App.4<sup>th</sup> 1344, 1364 n.11.) In some cases, information provided by such expert agencies may establish that the purported evidence relied on by the lead agency is not in fact “substantial”. (*Id.* at pp. 1369-1371.)

In sum, courts retain ultimate responsibility to determine what CEQA requires. However, the law does not require exhaustive analysis, but only what is reasonably feasible. Agencies deserve deference for their factual determinations regarding what type of analysis is reasonably feasible. On the other hand, if a commenter requests more information, and the lead agency declines to provide it but does *not* determine that the

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<sup>15</sup> The substantial evidence standard recognizes that the courts "have neither the resources nor the scientific expertise" to weigh conflicting evidence on technical issues. (*Laurel Heights I, supra*, 47 Cal.3d 376, 393.)

requested study or analysis would be infeasible, misleading or uninformative, the question becomes whether the omission of that analysis renders the EIR inadequate to satisfy CEQA's informational purposes. (*Id.* at pp. 1370-71.) Again, this is predominantly a question of law and should be judged by the de novo or independent judgment standard of review. Of course, this Court has recognized that a "project opponent or reviewing court can always imagine some additional study or analysis that might provide helpful information. It is not for them to design the EIR. That further study...might be helpful does not make it necessary." (*Laurel Heights I, supra*, 47 Cal.3d 376, 415 – see also CEQA Guidelines § 15204(a) [CEQA "does not require a lead agency to conduct every test. . . recommended or demanded by commenters."].) Courts, then, must adjudicate whether an omission of particular information renders an EIR inadequate to serve CEQA's informational purposes.<sup>16</sup>

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<sup>16</sup> We recognize that there is case law stating that the substantial evidence standard applies to "challenges to the scope of an EIR's analysis of a topic" as well as the methodology used and the accuracy of the data relied on in the document "because these types of challenges involve factual questions." (*Bakersfield Citizens for Local Control v. City of Bakersfield, supra*, 124 Cal.App.4<sup>th</sup> 1184, 1198, and cases relied on therein.) However, we interpret this language to refer to situations where the question of the scope of the analysis really is factual—that is, where it involves whether further analysis is feasible, as discussed above. This interpretation is supported by the fact that the *Bakersfield* court expressly rejected an argument that a claimed "omission of information from the EIR should be treated as inquiries whether there is substantial evidence supporting the decision approving the project." *Bakersfield, supra*, 124 Cal.App.4<sup>th</sup> at p. 1208. And the *Bakersfield* court ultimately decided that the lead agency must analyze the connection between the identified air pollution impacts and resulting health impacts, even though the EIR already included some discussion of air-pollution-related respiratory illnesses. *Bakersfield, supra*, 124 Cal.App.4<sup>th</sup> at p. 1220. Therefore, the court must not have interpreted this question as one of the "scope of the analysis" to be judged by the substantial evidence standard.

**B. Friant Ranch's Rationale for Rejecting the Independent Judgment Standard of Review is Unsupported by Case Law.**

In its brief, Friant Ranch makes a distinction between cases where a required CEQA topic is not discussed at all (to be reviewed by independent judgment as a failure to proceed in the manner required by law) and cases where a topic is discussed, but the commenter claims the information provided is insufficient (to be judged by the substantial evidence test). (Opening Brief, pp. 13-17.) The Court of Appeal recognized these two types of cases, but concluded that both raised questions of law. (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) We believe the distinction drawn by Friant Ranch is unduly narrow, and inconsistent with cases which have concluded that CEQA documents are insufficient. In many instances, CEQA's requirements are stated broadly, and the courts must interpret the law to determine what level of analysis satisfies CEQA's mandate for providing meaningful information, even though the EIR discusses the issue to some extent.

For example, the CEQA Guidelines require discussion of the existing environmental baseline. In *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal.App.4th 931, 954-955, the lead agency had discussed the environmental baseline by describing historic month-end water levels in the affected lakes. However, the court held that this was not an adequate baseline discussion because it failed to discuss the timing and amounts of past actual water releases, to allow comparison with the proposed project. The court evidently applied the independent judgment test to its decision, even though the agency discussed the issue to some extent.

Likewise, in *Vineyard Area Citizens* (2007) 40 Cal.4th 412, this Court addressed the question of whether an EIR's analysis of water supply impacts complied with CEQA. The parties agreed that the EIR was required to analyze the effects of providing water to the development project, "and that in order to do so the EIR had, in some manner, to identify the planned sources of that water." (*Vineyard Area Citizens, supra*, at p. 428.) However, the parties disagreed as to the level of detail required for this analysis and "what level of uncertainty regarding the availability of water supplies can be tolerated in an EIR . . . ." (*Id.*) In other words, the EIR had analyzed water supply impacts for the project, but the petitioner claimed that the analysis was insufficient.

This Court noted that neither CEQA's statutory language or the CEQA Guidelines specifically addressed the question of how precisely an EIR must discuss water supply impacts. (*Id.*) However, it explained that CEQA "states that '[w]hile foreseeing the unforeseeable is not possible, an agency must use its best efforts to find out and disclose all that it reasonably can.'" (*Id.*, [Guidelines § 15144].) The Court used this general principle, along with prior precedent, to elucidate four "principles for analytical adequacy" that are necessary in order to satisfy "CEQA's informational purposes." (*Vineyard Area Citizens, supra*, at p. 430.) The Court did not defer to the agency's determination that the EIR's analysis of water supply impacts was sufficient. Rather, this Court used its independent judgment to determine for itself the level of analysis required to satisfy CEQA's fundamental purposes. (*Vineyard Area Citizens, supra*, at p. 441: an EIR does not serve its purposes where it neglects to explain likely sources of water and "... leaves long term water supply considerations to later stages of the project.")

Similarly, the CEQA Guidelines require an analysis of noise impacts of the project. (Appendix G, “Environmental Checklist Form.”<sup>17</sup>) In *Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1123, the court held that the lead agency’s noise impact analysis was inadequate even though it had addressed the issue and concluded that the increase would not be noticeable. If the court had been using the substantial evidence standard, it likely would have upheld this discussion.

Therefore, we do not agree that the issue can be resolved on the basis suggested by Friant Ranch, which would apply the substantial evidence standard to *every* challenge to an analysis that addresses a required CEQA topic. This interpretation would subvert the courts’ proper role in interpreting CEQA and determining what the law requires.

Nor do we agree that the Court of Appeal in this case violated CEQA’s prohibition on courts interpreting its provisions “in a manner which imposes procedural or substantive requirements beyond those explicitly stated in this division or in the state guidelines.” (Pub. Resources Code § 21083.1.) CEQA requires an EIR to describe *all* significant impacts of the project on the environment. (Pub. Resources Code § 21100(b)(2); *Vineyard Area Citizens, supra*, at p. 428.) Human beings are part of the environment, so CEQA requires EIRs to discuss a project’s significant impacts on human health. However, except in certain particular circumstances,<sup>18</sup> neither the CEQA statute nor Guidelines specify the precise level of analysis that agencies must undertake to satisfy the law’s requirements. (see, e.g., CEQA Guidelines § 15126.2(a) [EIRs must describe “health and safety problems caused by {a project’s} physical changes”].) Accordingly, courts must interpret CEQA as a whole to

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<sup>17</sup> Association of Environmental Professionals, 2015 CEQA Statute and Guidelines (2015) p.287.

<sup>18</sup> E.g., Pub. Resources Code § 21151.8(C)(3)(B)(iii) (requiring specific type of health risk analysis for siting schools).



determine whether a particular EIR is sufficient as an informational document. A court determining whether an EIR's discussion of human health impacts is legally sufficient does not constitute imposing a new substantive requirement.<sup>19</sup> Under Friant Ranch's theory, the above-referenced cases holding a CEQA analysis inadequate would have violated the law. This is not a reasonable interpretation.

#### **IV. COURTS MUST SCRUPULOUSLY ENFORCE THE REQUIREMENTS THAT LEAD AGENCIES CONSULT WITH AND OBTAIN COMMENTS FROM AIR DISTRICTS**

Courts must "scrupulously enforce" CEQA's legislatively mandated requirements. (*Vineyard Area Citizens, supra*, 40 Cal.4<sup>th</sup> 412, 435.) Case law has firmly established that lead agencies must consult with the relevant air pollution control district before conducting an initial study, and must provide the districts with notice of the intention to adopt a negative declaration (or EIR). (*Schenck v. County of Sonoma* (2011) 198 Cal.App.4th 949, 958.) As *Schenck* held, neither publishing the notice nor providing it to the State Clearinghouse was a sufficient substitute for sending notice directly to the air district. (*Id.*) Rather, courts "must be satisfied that [administrative] agencies have fully complied with the procedural requirements of CEQA, since only in this way can the important public purposes of CEQA be protected from subversion." *Schenck*, 198 Cal.App.4th at p. 959 (citations omitted).<sup>20</sup>

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<sup>19</sup> We submit that Public Resources Code Section 21083.1 was intended to prevent courts from, for example, holding that an agency must analyze economic impacts of a project where there are no resulting environmental impacts (see CEQA Guidelines § 15131), or imposing new procedural requirements, such as imposing additional public notice requirements not set forth in CEQA or the Guidelines.

<sup>20</sup> Lead agencies must consult air districts, as public agencies with jurisdiction by law over resources affected by the project, *before* releasing an EIR. (Pub. Resources Code §§ 21104(a); 21153.) Moreover, air

Lead agencies should be aware, therefore, that failure to properly seek and consider input from the relevant air district constitutes legal error which may jeopardize their project approvals. For example, the court in *Fall River Wild Trout Foundation v. County of Shasta*, (1999) 70 Cal.App.4th 482, 492 held that the failure to give notice to a trustee agency (Department of Fish and Game) was prejudicial error requiring reversal. The court explained that the lack of notice prevented the Department from providing any response to the CEQA document. (*Id.* at p. 492.) It therefore prevented relevant information from being presented to the lead agency, which was prejudicial error because it precluded informed decision-making. (*Id.*)<sup>21</sup>

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districts should be considered “state agencies” for purposes of the requirement to consult with “trustee agencies” as set forth in Public Resources Code § 20180.3(a). This Court has long ago held that the districts are not mere “local agencies” whose regulations are superseded by those of a state agency regarding matters of statewide concern, but rather have concurrent jurisdiction over such issues. (*Orange County Air Pollution Control District v. Public Util. Com.* (1971) 4 Cal.3d 945, 951, 954.) Since air pollution is a matter of statewide concern, *Id.* at 952, air districts should be entitled to trustee agency status in order to ensure that this vital concern is adequately protected during the CEQA process.

<sup>21</sup> In *Schenck*, the court concluded that failure to give notice to the air district was not prejudicial, but this was partly because the trial court had already corrected the error before the case arrived at the Court of Appeal. The trial court issued a writ of mandate requiring the lead agency to give notice to the air district. The air district responded by concurring with the lead agency that air impacts were not significant. (*Schenck*, 198 Cal.App.4th 949, 960.) We disagree with the *Schenck* court that the failure to give notice to the air district would not have been prejudicial (even in the absence of the trial court writ) merely because the lead agency purported to follow the air district’s published CEQA guidelines for significance. (*Id.*, 198 Cal.App.4th at p. 960.) In the first place, absent notice to the air district, it is uncertain whether the lead agency properly followed those guidelines. Moreover, it is not realistic to expect that an air district’s published guidelines would necessarily fully address all possible air-quality related issues that can arise with a CEQA project, or that those

Similarly, lead agencies must obtain additional information requested by expert agencies, including those with jurisdiction by law, if that information is necessary to determine a project's impacts. (*Sierra Club v. State Bd. Of Forestry* (1994) 7 Cal.4th 1215, 1236-37.) Approving a project without obtaining that information constitutes a failure to proceed in the manner prescribed by CEQA. (*Id.* at p. 1236.)

Moreover, a lead agency can save significant time and money by consulting with the air district early in the process. For example, the lead agency can learn what the air district recommends as an appropriate analysis on the facts of its case, including what kinds of health impacts analysis may be available, and what models are appropriate for use. This saves the lead agency from the need to do its analysis all over again and possibly needing to recirculate the document after errors are corrected, if new significant impacts are identified. (CEQA Guidelines § 15088.5(a).) At the same time, the air district's expert input can help the lead agency properly determine whether another commenter's request for additional analysis or studies is reasonable or feasible. Finally, the air district can provide input on what mitigation measures would be feasible and effective.

Therefore, we suggest that this Court provide guidance to lead agencies reminding them of the importance of consulting with the relevant air districts regarding these issues. Otherwise, their feasibility decisions may be vulnerable to air district evidence that establishes that there is no substantial evidence to support the lead agency decision not to provide specific analysis. (*See Berkeley Keep Jets Over the Bay, supra*, 91 Cal.App.4th 1344, 1369-1371.)

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guidelines would necessarily be continually modified to reflect new developments. Therefore we believe that, had the trial court not already ordered the lead agency to obtain the air district's views, the failure to give notice would have been prejudicial, as in *Fall River, supra*, 70 Cal.App.4th 482, 492.


## CONCLUSION

The SCAQMD respectfully requests this Court *not* to establish a hard-and-fast rule concerning whether CEQA requires a lead agency to correlate identified air quality impacts of a project with resulting health outcomes. Moreover, the question of whether an EIR is “sufficient as an informational document” is a mixed question of fact and law containing two levels of inquiry. Whether a particular proposed analysis is feasible is predominantly a question of fact to be judged by the substantial evidence standard of review. Where the requested analysis is feasible, but the lead agency relies on legal or policy reasons not to provide it, the question of whether the EIR is nevertheless sufficient as an informational document is predominantly a question of law to be judged by the independent judgment standard of review.

Respectfully submitted,

DATED: April 3, 2015

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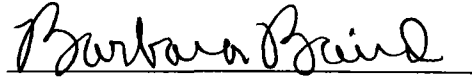
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## CERTIFICATE OF WORD COUNT

Pursuant to Rule 8.520(c)(1) of the California Rules of Court, I hereby certify that this brief contains 8,476 words, including footnotes, but excluding the Application, Table of Contents, Table of Authorities, Certificate of Service, this Certificate of Word Count, and signature blocks. I have relied on the word count of the Microsoft Word Vista program used to prepare this Certificate.

DATED: April 3, 2015

Respectfully submitted,

  
Barbara Baird

**PROOF OF SERVICE**

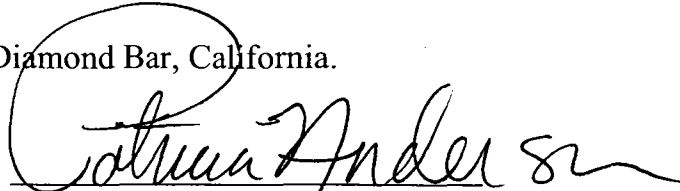
I am employed in the County of Los Angeles, California. I am over the age of 18 years and not a party to the within action. My business address is 21865 Copley Drive, Diamond Bar, California 91765.

On April 3, 2015 I served true copies of the following document(s) described as **APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND *[PROPOSED]* BRIEF OF *AMICUS CURIAE*** by placing a true copy of the foregoing document(s) in a sealed envelope addressed as set forth on the attached service list as follows:

**BY MAIL:** I enclosed the document(s) in a sealed envelope or package addressed to the persons at the addresses listed in the Service List and placed the envelope for collection and mailing following our ordinary business practices. I am readily familiar with this District's practice for collection and processing of correspondence for mailing. Under that practice, the correspondence would be deposited with the United States Postal Service, with postage thereon fully prepaid at Diamond Bar, California, in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on April 3, 2015 at Diamond Bar, California.

  
Patricia Anderson

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## 7. Construction HRA and LSTs



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# 1. Construction Health Risk Assessment and Localized Significance Thresholds

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## 1.1 INTRODUCTION

The Brea 265 Specific Plan (project project) is in the City of Brea and the City's sphere of influence (SOI) in northern Orange County. The project site encompasses 262.1 acres north of State Route 90 (SR-90) and east of SR-57. The 43-acre portion of the project site that is east of Rose Drive is in the incorporated City of Brea, and the remaining 219.1-acre portion of the project site is in the City's SOI, to be annexed into the City. The project site is bordered by Lambert Road/Carbon Canyon Road to the north, Rose Drive to the south, Carbon Canyon Regional Park to the east, and residential uses and Valencia Avenue to the west. The project site is bisected by Valencia Avenue, which runs in a north-south direction, and by Lambert Road, which runs in an east-west direction.

At buildout, the proposed project would provide up to 450 low-density units and 650 medium-density units—a total of 1,100 units. The proposed project also provides up to 15.1 acres of parks/recreations uses, 47.5 acres of open space, and 2.0 acres of rights-of-way. Overall, the proposed project would involve site preparation, grading, trenching, landscaping, building construction, architectural coating, and paving. Project construction would occur continuously over 3 development phases and is anticipated to take place from year 2023 to year 2030 (approximately 1,784 total workdays or 6.84 accumulated years). Activities related to required remediation actions would also occur during this period. The following provides the background methodology used for the construction health risk assessment (HRA) and localized significance thresholds (LST) for the proposed project.

The project site is generally bordered by residential uses to the west, north, and south with single family residences further to the east. Other nearby sensitive uses include Olinda Elementary School along East Birch Street adjacent to the southwest corner of the site's Phase 2 development area, and North Hills Preschool also along East Birch Street further to the southwest. Guidance from the California Environmental Protection Agency (Cal/EPA), Office of Environmental Health Hazard Assessment (OEHHA), and California Air Pollution Control Officers Association (CAPCOA) recommend the completion of health risk assessments to determine the impacts of hazardous air emissions upon sensitive receptors in the vicinity of the project. As a result, a site-specific construction HRA has been prepared for the proposed project. This HRA considers the health impact to nearby sensitive receptors (adults and children in the nearby residences, schools and preschools) of construction emissions at the project site from diesel equipment exhaust (diesel particulate matter or DPM). Furthermore, in accordance with South Coast Air Quality Management District (South Coast AQMD) methodology, because the proposed project would result in construction activities that generate onsite fugitive dust and exhaust emissions exceeding the PM<sub>10</sub> and PM<sub>2.5</sub> screening-level

construction LSTs, dispersion modeling has been prepared to determine the concentration levels resulting from these construction activities (South Coast AQMD 2008).

## 1.2 METHODOLOGY AND SIGNIFICANCE THRESHOLDS

### 1.2.1 Construction HRA

For this HRA, the South Coast AQMD significance thresholds were deemed to be appropriate and the thresholds that were used for this project are shown below:

- Excess cancer risk of more than 10 in a million
- Non-cancer hazard index (chronic or acute) greater than 1.0

The methodology used in this HRA is consistent with the following OEHHA guidance documents:

- OEHHA. 2015. *Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments*. February, 2015.

Potential exposures to DPM from project construction was evaluated for off-site sensitive receptors in close proximity to the site. Pollutant concentrations were estimated using an air dispersion model, and excess lifetime cancer risks and chronic non-cancer hazard indexes were calculated. These risks were then compared to the significance thresholds adopted for this HRA.

It should be noted that these health impacts are based on conservative (i.e., health protective) assumptions. The United States Environmental Protection Agency (USEPA 2005) and the Office of Environmental Health Hazard Assessment (OEHHA 2015) note that conservative assumptions used in a risk assessment are intended to ensure that the estimated risks do not underestimate the actual risks. Therefore, the estimated risks may not necessarily represent actual risks experienced by populations at or near a site. The use of conservative assumptions tends to produce upper-bound estimates of exposure and thus risk.

For residential-based receptors, the following conservative assumptions were used:

- It was assumed that maximum-exposed off-site residential receptors (both children and adults) stood outdoors and are subject to DPM at their residence for 8 hours per day, and approximately 260 construction days per year. In reality, California residents typically will spend on average 2 hours per day outdoors at their residences (USEPA 2011). This would result in lower exposures to construction related DPM emissions and lower estimated risk values.
- The calculated risk for infants from third trimester to age 2 is multiplied by a factor of 10 and children ages 2 to 16 is multiplied by a factor of 3 to account for early life exposure and uncertainty in child versus adult exposure impacts (OEHHA 2015).

For school-based receptors, the following conservative assumptions were used:

- It was assumed that maximum-exposed student receptors (Olinda Elementary School at 3145 E Birch Street, offering preschool through 6<sup>th</sup> grade) stood outdoors and are subject to DPM for 8 hours per day,

and approximately 180 school days per year. Additionally, it was assumed that the maximum-exposed North Hills Preschool (at 3100 E Birch Street, offering programs for children from 6 weeks to 5 years of age) stood outdoors and are subject to DPM for 8 hours per day, and approximately 250 school days per year. In reality, students and preschool children are exposed to outdoor pollutant concentration levels for a portion of the day and are exposed to reduced indoor pollutant concentrations for the remaining hours. This would result in lower estimated risk values.

- The calculated risk for students in the 0- to 2-year-old age bin is multiplied by a factor of 10 and those in the 2- to 16-year-old age bin is multiplied by a factor of 3 to account for early life exposure and uncertainty in child versus adult exposure impacts (OEHHA 2015).

## 1.2.2 Localized Significance Thresholds

The South Coast AQMD identifies localized significance thresholds, shown in Table 1 for PM<sub>10</sub> and PM<sub>2.5</sub>. Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> generated at a project site (offsite mobile-source emissions are not included in the LST analysis) could expose sensitive receptors to substantial concentrations of criteria air pollutants. A project that generates emissions that trigger a violation of the ambient air quality standards when added to the local background concentrations would generate a significant impact.

TABLE 1. SOUTH COAST AQMD LOCALIZED SIGNIFICANCE THRESHOLDS

Air Pollutant (Relevant AAQS)	Concentration
24-Hour PM <sub>10</sub> Standard – Construction (South Coast AQMD) <sup>1</sup>	10.4 µg/m <sup>3</sup>
24-Hour PM <sub>2.5</sub> Standard – Construction (South Coast AQMD) <sup>1</sup>	10.4 µg/m <sup>3</sup>
24-Hour PM <sub>10</sub> Standard – Operation (South Coast AQMD) <sup>1</sup>	2.5 µg/m <sup>3</sup>
24-Hour PM <sub>2.5</sub> Standard – Operation (South Coast AQMD) <sup>1</sup>	2.5 µg/m <sup>3</sup>
Annual Average PM <sub>10</sub> Standard (South Coast AQMD) <sup>1</sup>	1.0 µg/m <sup>3</sup>

Source: South Coast AQMD 2019

Note: ppm – parts per million; µg/m<sup>3</sup> – micrograms per cubic meter

<sup>1</sup> Threshold is based on South Coast AQMD Rule 403. Since the South Coast Air Basin is in nonattainment for PM<sub>10</sub> and PM<sub>2.5</sub>, the threshold is established as an allowable change in concentration. Therefore, background concentration is irrelevant.

## 1.3 CONSTRUCTION EMISSIONS

Construction emissions were calculated as average daily emissions in pounds per day, using the proposed construction schedule and CalEEMod Version 2020.4.0 (CAPCOA 2021). Construction modeling considered year 2023 for remediation area west of Valencia Avenue, years 2023-2025 for Phase 1 construction activities, year 2024 for the remediation area east of Valencia Avenue, years 2024-2027 for Phase 2, and years 2026-2030 for Phase 3. DPM emissions were based on the CalEEMod construction runs, using annual exhaust PM<sub>10</sub> construction emissions presented in pounds (lbs) per day.

The project was assumed to have a cumulative duration of 1,784 workdays from August 2023 through May 2030. The average daily emission rates from construction equipment used during the proposed project were determined by dividing the annual average emissions for each construction year by the number of construction days per year for each calendar year of construction (i.e., years 2023 to 2030). The off-site

hauling emission rates were adjusted to evaluate localized emissions from the 3.6-mile haul route within 1,000 feet of the project site. The CalEEMod construction emissions output and emission rate calculations are provided in Appendix A of the HRA.

## 1.4 DISPERSION MODELING

Air quality modeling was performed using the AERMOD atmospheric dispersion model to assess the impact of emitted compounds on sensitive receptors near the project. The model is a steady state Gaussian plume model and is an approved model by South Coast AQMD for estimating ground level impacts from point and fugitive sources in simple and complex terrain. The on-site construction emissions for the project were modeled as poly-area sources. The off-site mobile sources were modeled as adjacent line volume sources. The model requires additional input parameters, including chemical emission data and local meteorology. Inputs for the construction emission rates are those described in Section 1.3. Meteorological data obtained from the South Coast AQMD for the nearest representative meteorological station (Fullerton Airport) with the five latest available years (2012 to 2016) of record were used to represent local weather conditions and prevailing winds (South Coast AQMD 2022). The prevailing wind direction at the Fullerton Airport meteorological station is to the north-northeast, and the wind rose is provided in Appendix B.

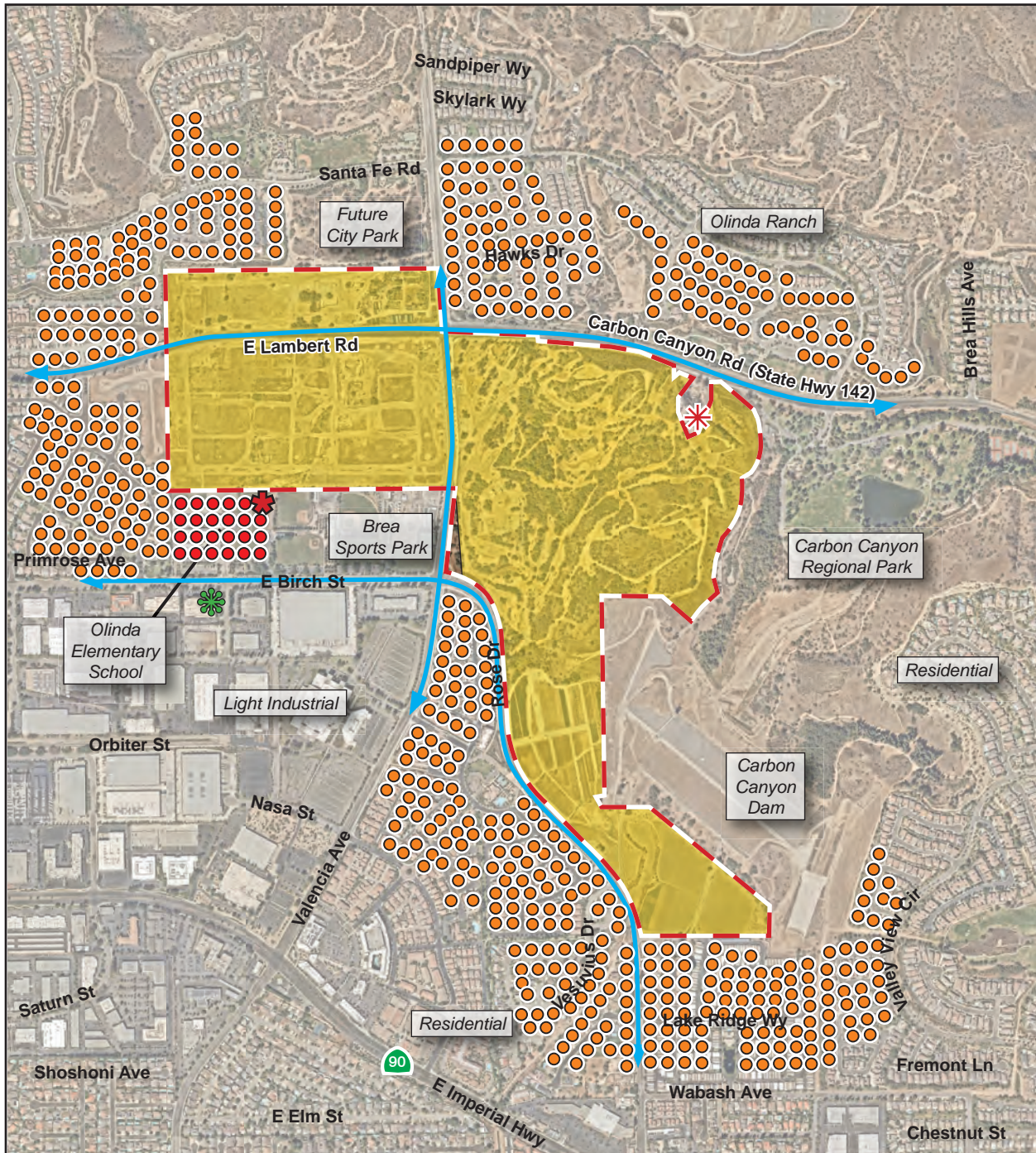
The modeling analysis also considered the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. To accommodate the model's Cartesian grid format, direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each source location. In addition, national elevation dataset (NED) data for the area were obtained and included in the model runs to account for complex terrain. An emission release height of 4.15 meters was used as representative of the stack exhaust height for off-road construction equipment and diesel truck traffic, and an initial vertical dispersion parameter of 1.93 m was used, per California Air Resources Board (CARB) guidance (CARB 2000).

To determine contaminant impacts during construction hours, the model's Hour-By-Day-of-Week (HRDOW) scalar option was invoked to predict ground level concentrations for construction emissions generated from Monday through Friday between the hours of 7:00 AM and 4:00 PM with a 1-hour lunch break.

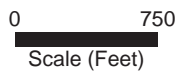
A unit emission rate of 1 gram per second was used for all modeling runs. The unit emission rates were proportioned over the poly-area sources for on-site construction emissions and divided between the volume sources for off-site hauling emissions. The maximum modeled concentrations from the output files were then multiplied by the emission rates calculated in Appendix A to obtain the maximum flagpole-level concentrations at the off-site maximum exposed individual resident (MEIR). As shown in Figure 1, the MEIR is the single-family residence south of State Route 142 in the pocket of land near the northeast portion of the Phase 3 development area. The maximum exposed receptor (MER) for the Olinda Elementary School,



Figure 1 - Project Sources and Off-Site Receptor Locations



- Chaffey College - Rancho Cucamonga Campus
- Development Area
- ✳ Maximum Exposed School Receptor - Olinda ES
- Receptors - Olinda Elementary School
- ✳ Maximum Exposed School Receptor - North Hills Preschool
- Receptors - Residential
- ✳ Maximum Exposed Individual Receptor - Residential
- ↔ Construction Truck Route



Source: Nearmap, 2022

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which is situated along East Birch Street next to the southwest corner of the Phase 2 development area of the Specific Plan, lies within the northeastern portion of the school campus.<sup>1</sup> Furthermore, the overall MEIR and maximum exposed Olinda Elementary School receptor are based on the MEIR and maximum exposed school receptor determined for the all-phase source group, which assumes concurrent active construction activities for the entire project plan area.

The air dispersion model output for the emission sources is presented in Appendix B. The DPM concentrations at the MEIR, the MER at Olinda Elementary School, and at North Hills Preschool are provided in Appendix C.

## 1.5 RISK CHARACTERIZATION

### 1.5.1 Carcinogenic Chemical Risk

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Therefore, any exposure will have some associated risk. The South Coast AQMD has established a maximum incremental cancer risk of 10 in a million ( $1 \times 10^{-5}$  or  $10 \times 10^{-6}$ ) for CEQA projects and the OEHHA also sets a typical risk management level as 10 in a million (OEHHA 2015).

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. The cancer risk probability is determined by multiplying the chemical's annual concentration by its cancer potency factor (CPF), a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It is an upper-limit estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ( $\mu\text{g}/\text{m}^3$ ), averaged over a lifetime of 70 years.

Recent guidance from OEHHA recommends a refinement to the standard point estimate approach with the use of age-specific breathing rates and age sensitivity factors (ASFs) to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose for each age group. Once determined, contaminant dose is multiplied by the cancer potency factor in units of inverse dose expressed in milligrams per kilogram per day ( $\text{mg}/\text{kg}/\text{day}$ )<sup>-1</sup> to derive the cancer risk estimate. Therefore, the following dose algorithm was used to accommodate the unique exposures associated with each receptor type.

$$\text{Dose}_{\text{AIR,per age group}} = (C_{\text{air}} \times \text{EF} \times \left[\frac{\text{BR}}{\text{BW}}\right] \times A \times \text{CF})$$

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<sup>1</sup> The maximum exposed receptor location (MEIR or MER school receptors) is the receptor location associated with the maximum AERMOD predicted DPM concentrations from the on-site emission source because the calculated on-site emission rates are approximately two to three orders of magnitude higher than the calculated off-site emission rates (see Appendix A). Therefore, the maximum concentrations associated with the on-site emission sources produce the highest overall ground-level maximum exposed receptor concentrations and, consequently, highest calculated health risks.



Where:

- Dose<sub>AIR</sub> = dose by inhalation (mg/kg-day), per age group
- C<sub>air</sub> = concentration of contaminant in air (µg/m<sup>3</sup>)
- EF = exposure frequency (number of days/365 days)
- BR/BW = daily breathing rate normalized to body weight (L/kg-day)
- A = inhalation absorption factor (default = 1)
- CF = conversion factor (1x10<sup>-6</sup>, µg to mg, L to m<sup>3</sup>)

The inhalation absorption factor (A) is a unitless factor that is only used if the cancer potency factor included a correction for absorption across the lung. The default value of 1 was used for this assessment. For residential receptors, the exposure frequency (EF) of 0.96 is used to represent 350 days per year to allow for a two-week period away from home each year (OEHHA 2015). For Olinda Elementary School, an EF of 0.49 is used to represent the traditional school calendar of 180 days per year (OEHHA, 2004). An EF of 0.68 is used for North Hills Preschool to represent worker/daycare calendar of 250 days per year (OEHHA 2015).

For construction analysis, the residential exposure duration spans the length of construction (e.g., 1,784 workdays over a 6.84-year span). The 95<sup>th</sup> percentile daily breathing rates (BR/BW), exposure duration (ED), age sensitivity factors (ASFs), and fraction of time at home (FAH) for the various age groups are provided herein:

<u>Age Groups</u>	<u>BR/BW (L/kg-day)</u>	<u>ED</u>	<u>ASF</u>	<u>FAH</u>
Third trimester	361	0.25	10	0.85
0-2 age group	1,090	2.00	10	0.85
2-9 age group	861	4.59	3	0.72

For Olinda Elementary School students, the 95<sup>th</sup> percentile 8-hour breathing rates (moderate intensity activity), ED of 6.84 years (preschool through 6<sup>th</sup> grade, assuming 6<sup>th</sup> graders complete the academic year by June), and ASF, for the 2- to 16-year-old age group is provided below:

<u>Age Groups</u>	<u>BR/BW (L/kg-day)</u>	<u>ED, 6.84 years</u>	<u>ASF</u>
2-16 age group	520	6.84	3

For the North Hills Preschool students, the 95<sup>th</sup> percentile 8-hour breathing rates (moderate intensity activity), ED of 6.84 years (6 weeks to 5 years old), and ASF, for the 0- to 2-year-old age group and 2- to 16-year-old age group is provided below:

<u>Age Groups</u>	<u>BR/BW (L/kg-day)</u>	<u>ED, 6.84 years</u>	<u>ASF</u>
0-2 age group	1,200	2.00	10
2-16 age group	520	4.84	3

To calculate the overall cancer risk, the risk for each appropriate age group is calculated per the following equation:

$$\text{Cancer Risk}_{\text{AIR}} = \text{Dose}_{\text{AIR}} \times \text{CPF} \times \text{ASF} \times \text{FAH} \times \frac{\text{ED}}{\text{AT}}$$

Where:

Dose <sub>AIR</sub>	=	dose by inhalation (mg/kg-day), per age group
CPF	=	cancer potency factor, chemical-specific (mg/kg-day) <sup>-1</sup>
ASF	=	age sensitivity factor, per age group
FAH	=	fraction of time at home, per age group (for residential receptors only)
ED	=	exposure duration (years)
AT	=	averaging time period over which exposure duration is averaged (70 years)

The CPFs used in the assessment were obtained from OEHHA guidance. The excess lifetime cancer risks during the construction period to the maximally exposed resident were calculated based on the factors provided above. The cancer risks for each age group are summed to estimate the total cancer risk for each toxic chemical species. The final step converts the cancer risk in scientific notation to a whole number that expresses the cancer risk in “chances per million” by multiplying the cancer risk by a factor of 1x10<sup>6</sup> (i.e., 1 million).

The calculated results are provided in Appendix C.

## 1.5.2 Non-Carcinogenic Hazards

An evaluation was also conducted of the potential non-cancer effects of chronic chemical exposures. Adverse health effects are evaluated by comparing the annual receptor level concentration of each chemical compound with the appropriate reference exposure limit (REL). Available RELs promulgated by OEHHA were considered in the assessment.

The hazard index approach was used to quantify non-carcinogenic impacts. The hazard index assumes that chronic sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). Target organs presented in regulatory guidance were used for each discrete chemical exposure. To calculate the hazard index, each chemical concentration or dose is divided by the appropriate toxicity value. This ratio is summed for compounds affecting the same toxicological endpoint. A health hazard is presumed to exist where the total equals or exceeds one.

The chronic hazard analysis for DPM is provided in Appendix C. The calculations contain the relevant exposure concentrations and corresponding reference dose values used in the evaluation of non-carcinogenic exposures.

## 1.6 LOCALIZED SIGNIFICANCE THRESHOLDS

To calculate the concentration level generated by construction activity, the maximum modeled concentrations from the dispersion modeling output files were multiplied by the emission rates determined for the on-site construction activities determined to exceed the screening-level localized significance thresholds, to obtain the

maximum flagpole-level concentrations at the annual and 24-hour off-site MEIRs, Olinda Elementary School MER, and North Hills Preschool MER. The LST calculations are provided in Appendix D.

## 1.7 RESULTS

### 1.7.1 Construction HRA

The calculated results are provided in Appendix C and the results are summarized in Table 2.

TABLE 2. CONSTRUCTION RISK SUMMARY - UNMITIGATED

Receptor	Cancer Risk (per million)	Chronic Hazards
Maximum Exposed Individual Resident (MEIR)	15.1	0.053
Maximum Exposed School Receptor – Olinda Elementary School	1.0	0.020
Maximum Exposed Preschool Receptor – North Hills Preschool	1.1	0.004
South Coast AQMD Threshold	10	1.0
<b>Exceeds Threshold?</b>	<b>Yes</b>	<b>No</b>

Note: Cancer risk calculated using 2015 OEHHA HRA guidance.

Cancer risk for the MEIR from project-related construction activities was calculated to be 15.1 in a million and would exceed the 10 in a million-significance threshold. Cancer risk for students at Olinda Elementary School and North Hills Preschool is 1.0 per million and 1.1 per million, respectively, and would not exceed 10 per million. For non-carcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for the MEIR, the maximum exposed school receptor, and the maximum exposed preschool receptor. Therefore, chronic non-carcinogenic hazards are less than significant. However, because the cancer risk for the MEIR would exceed the 10 per million threshold, project-related construction activities would result in potentially significant health risk impacts.

Because cancer risk for the MEIR would exceed South Coast AQMD significance threshold due to construction activities associated with the proposed project, the following mitigation measure is proposed:

**Mitigation Measure AQ-1:** Construction and remediation contractors shall, at minimum, use equipment that meets the United States Environmental Protection Agency’s (EPA) Tier 4 Interim emissions standards for off-road diesel-powered construction equipment with more than 50 horsepower for the following activities, unless it can be demonstrated to the City of Brea Building and Safety Division that such equipment is not available:

- Remediation phase ground disturbing activities (e.g., site preparation, grading, and trenching)
- Phase 1 ground disturbing activities (e.g., site preparation, grading, and trenching)
- Phase 1 building/structure construction

- Phase 2 ground disturbing activities (e.g., site preparation, grading, and trenching)

Any emissions control device used by the contractor shall achieve emissions reductions that are no less than what could be achieved by Tier 4 Interim emissions standards for a similarly sized engine, as defined by the California Air Resources Board’s regulations.

Prior to construction, the project engineer shall ensure that all construction (e.g., grading) plans clearly show the requirement for EPA Tier 4 Interim emissions standards for construction equipment over 50 horsepower for the specific activities stated above. During construction, the construction contractor shall maintain a list of all operating equipment in use on the construction site for verification by the City of Brea. The construction equipment list shall state the makes, models, Equipment Identification Numbers, Engine Family Numbers, and number of construction equipment onsite. Equipment shall be properly serviced and maintained in accordance with the manufacturer’s recommendations. Construction contractors shall also ensure that all nonessential idling of construction equipment is restricted to 5 minutes or less in compliance with Section 2449 of the California Code of Regulations, Title 13, Article 4.8, Chapter 9.

Mitigation Measure AQ-1 would reduce the project’s localized construction emissions, as shown in Table 3. The results indicate that, with mitigation, cancer risk at the MEIR would be reduced to 6.6 in a million and be less than the South Coast AQMD’s significance threshold. Therefore, the project would not expose off-site sensitive receptors to substantial concentrations of toxic air contaminant emissions during construction and impacts would be *less than significant* with mitigation.

**TABLE 3. CONSTRUCTION RISK SUMMARY - MITIGATED**

Receptor	Cancer Risk (per million)	Chronic Hazards
Maximum Exposed Individual Resident (MEIR)	6.6	0.039
South Coast AQMD Threshold	10	1.0
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>

Note: Cancer risk calculated using 2015 OEHHA HRA guidance.

## 1.7.2 Construction LSTs

Table 4 shows the concentration levels determined with dispersion modeling for the project-related construction activities that would generate mass emissions exceeding the screening-level LSTs. As shown in the table, the mass emissions generated by these construction activities would not result in concentration levels exceeding the LSTs. Therefore, project-related construction activities would generate *less than significant* localized impacts as it pertains to criteria air pollutants and no mitigation is required.

TABLE 4. CONSTRUCTION LST SUMMARY

Construction Scenario	24-Hour Concentration		Annual Average Concentration
	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
<b>Maximum Exposed Individual Resident (MEIR)<sup>1</sup></b>			
Western Remediation Site Preparation – Year 2023	1.5	0.8	0.04
Phase 1 Site Preparation – Year 2023	1.5	0.8	0.04
Phase 2 Site Preparation – Year 2024	1.6	0.9	0.4
Phase 2 Site Preparation – Year 2025	1.4	0.8	0.04
Phase 1 Building Construction, Phase 2 Site Preparation, & Eastern Remediation Site Preparation – Year 2024	3.2	1.9	0.8
Phase 1 Building Construction, Phase 2 Site Preparation, & Eastern Remediation Grading – Year 2024	2.5	1.4	0.7
Phase 2 Building Construction, Phase 2 Architectural Coating, Phase 3 Rough Grading, Phase 3 Utility Trenching, & Phase 3 Fine Grading – Year 2027	0.2	0.1	0.4
<b>Maximum Exposed School Receptor – Olinda Elementary School</b>			
Western Remediation Site Preparation – Year 2023	0.9	0.5	0.1
Phase 1 Site Preparation – Year 2023	0.9	0.5	0.1
Phase 2 Site Preparation – Year 2024	0.9	0.5	0.1
Phase 2 Site Preparation – Year 2025	0.9	0.5	0.1
Phase 1 Building Construction, Phase 2 Site Preparation, & Eastern Remediation Site Preparation – Year 2024	1.9	1.1	0.3
Phase 1 Building Construction, Phase 2 Site Preparation, & Eastern Remediation Grading – Year 2024	1.5	0.9	0.2
Phase 2 Building Construction, Phase 2 Architectural Coating, Phase 3 Rough Grading, Phase 3 Utility Trenching, & Phase 3 Fine Grading – Year 2027	1.1	0.6	0.1
<b>Maximum Exposed Daycare Receptor – North Hills Preschool</b>			
Western Remediation Site Preparation – Year 2023	0.3	0.2	0.02
Phase 1 Site Preparation – Year 2023	0.3	0.2	0.02
Phase 2 Site Preparation – Year 2024	0.4	0.2	0.03
Phase 2 Site Preparation – Year 2025	0.3	0.2	0.02
Phase 1 Building Construction, Phase 2 Site Preparation, & Eastern Remediation Site Preparation – Year 2024	0.7	0.4	0.1
Phase 1 Building Construction, Phase 2 Site Preparation, & Eastern Remediation Grading – Year 2024	0.6	0.3	0.05
Phase 2 Building Construction, Phase 2 Architectural Coating, Phase 3 Rough Grading, Phase 3 Utility Trenching, & Phase 3 Fine Grading – Year 2027	0.4	0.2	0.1
South Coast AQMD LSTs	10.4	10.4	1.0
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>

Notes:

1 The MEIR under the 24-hour standard, is the mobile home in the southeast corner of Lake Glen Drive and Lake Tree Drive and different from the MEIR under the annual standard shown in Figure 1.

## 2. References

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# Appendix A. Emission Rate Calculations

## Average Daily Emissions and Emission Rates: Unmitigated

### Onsite Construction PM10 Exhaust Emissions<sup>1</sup>

Phases	Year	Annual PM10	Annual PM10	# of Construction Days/Year	Average Daily	Average Daily	Emission Rate (g/s)	# of Total Workdays/Year	Construction Duration (Yr) <sup>2</sup>
		Exhaust Emissions (Tons/Year)	Exhaust Emissions (lbs/Year)		Emissions (lbs/day)	Emissions (lbs/hr)			
WM & P1	2023	0.0947	189.42	109	1.74	2.17E-01	2.74E-02	260	0.42
P1, EM, & P2	2024	0.2180	435.92	262	1.66	2.08E-01	2.62E-02	262	1.00
P1&P2	2025	0.2318	463.66	261	1.78	2.22E-01	2.80E-02	261	1.00
P2&P3	2026	0.1449	289.72	261	1.11	1.39E-01	1.75E-02	261	1.00
P2&P3	2027	0.2628	525.68	261	2.01	2.52E-01	3.17E-02	261	1.00
P3	2028	0.0992	198.40	260	0.76	9.54E-02	1.20E-02	260	1.00
P3	2029	0.0698	139.50	261	0.53	6.68E-02	8.42E-03	261	1.00
P3	2030	0.0092	18.36	109	0.17	2.11E-02	2.65E-03	261	0.42
				<b>1,784</b>					<b>6.84</b>

### Offsite Construction PM10 Exhaust Emissions<sup>1</sup>

Phases	Year	Annual PM10	Annual PM10	# of Construction Days/Year	Average Daily	Hauling	Emission Rate (lbs/hr)	Emission Rate (g/s)
		Exhaust Emissions (Tons/Year)	Exhaust Emissions (lbs/Year)		Emissions (lbs/day)	Emissions w/in 1,000 ft (lbs/day) <sup>3</sup>		
WM & P1	2023	0.0035	7.00	109	6.42E-02	5.38E-03	6.72E-04	8.47E-05
P1, EM, & P2	2024	0.0057	11.42	262	4.36E-02	9.37E-03	1.17E-03	1.48E-04
P1&P2	2025	0.0024	4.76	261	1.82E-02	9.52E-03	1.19E-03	1.50E-04
P2&P3	2026	0.0090	18.00	261	6.90E-02	3.60E-02	4.50E-03	5.67E-04
P2&P3	2027	0.0061	12.10	261	4.64E-02	2.42E-02	3.03E-03	3.81E-04
P3	2028	0.0006	1.24	260	4.77E-03	2.49E-03	3.11E-04	3.92E-05
P3	2029	0.0006	1.22	261	4.67E-03	2.44E-03	3.05E-04	3.84E-05
P3	2030	0.0003	0.52	109	4.77E-03	2.49E-03	3.11E-04	3.92E-05

Note: Emissions evenly distributed over 246 modeled volume sources.

	2023	2024	2025	2026	2027	2028	2029	2030
Total Haul Trips	2,270	2,187	0	0	0	0	0	0
Total Vendor Trips	2,009	12,907	12,928	47,304	31,504	3,736	3,654	1,526
Total Trips	4,279	15,094	12,928	47,304	31,504	3,736	3,654	1,526
Average Distance Per Haul Trip (mile/trip)	75	75						
Average Distance Per Vendor Trip (mile/trip)	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Total Haul Trip Miles	170,250.0	164,025.0						
Total Vendor Trip Miles	13,864	89,056	89,203	326,398	217,378	25,778	25,213	10,529
Total Haul and Vendor Trip Miles	184,114	253,081	89,203	326,398	217,378	25,778	25,213	10,529
Haul Length within 1,000 ft of Site (mile) <sup>4</sup>	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
Total Miles Traveled within 1,000 ft of Site	15,420	54,389	46,585	170,455	113,521	13,462	13,167	5,499
Hours per work day (7:00 AM to 4:00 PM, 1-hour of breaks) <sup>5</sup>	8	8	8	8	8	8	8	8



<sup>1</sup> DPM emissions taken as PM<sub>10</sub> exhaust emissions from CalEEMod annual emissions.

<sup>2</sup> Construction durations determined for each year to adjust receptor exposures to the exposure durations for each construction year (see App C - Risk Calculations).

<sup>3</sup> Offsite trip length is based on the CalEEMod default vendor trip length of 6.9 miles per trip for Phases 1 through 3. The Western Remediation and Eastern Remediation haul length of 75 miles per trip is based on the haul truck distance between the project site and the assumed receiving facility at 12328 Hibiscus Road, Adelanto, CA 92301.

<sup>4</sup> Emissions from CalEEMod offsite average daily emissions, which is based on proportioned haul truck trip distances, are adjusted to evaluate emissions from the 3.60-mile route within 1,000 of the project site.

<sup>5</sup> Work hours applied in By Hour/Day (HRDOW) variable emissions module in air dispersion model (see App B - Air Dispersion Model Output Files).

## Annual Construction Emissions

### Western Remediation Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2023</b>					
	Fugitive Dust	0	0.0252	1.30E-02	0	1.30E-02
	Off-Road	3.80E-03	3.80E-03		3.49E-03	3.49E-03
	<b>Total</b>	<b>3.80E-03</b>	<b>2.90E-02</b>	<b>1.30E-02</b>	<b>3.49E-03</b>	<b>1.65E-02</b>
Offsite						
	Hauling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Vendor	1.00E-05	2.90E-04	8.00E-05	1.00E-05	9.00E-05
	Worker	0.00E+00	5.50E-04	1.50E-04	0.00E+00	1.50E-04
	<b>Total</b>	<b>1.00E-05</b>	<b>8.40E-04</b>	<b>2.30E-04</b>	<b>1.00E-05</b>	<b>2.40E-04</b>
<b>TOTAL</b>		<b>0.0038</b>	<b>0.0298</b>	<b>0.0132</b>	<b>0.0035</b>	<b>0.0167</b>

### Western Remediation Rough Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2023</b>					
	Fugitive Dust	0	0.0339	1.33E-02	0	1.33E-02
	Off-Road	1.21E-02	1.21E-02		1.11E-02	1.11E-02
	<b>Total</b>	<b>1.21E-02</b>	<b>4.60E-02</b>	<b>1.33E-02</b>	<b>1.11E-02</b>	<b>2.45E-02</b>
Offsite						
	Hauling	3.24E-03	7.13E-02	1.88E-02	3.10E-03	2.19E-02
	Vendor	5.00E-05	1.65E-03	4.70E-04	5.00E-05	5.10E-04
	Worker	1.00E-05	1.73E-03	4.60E-04	1.00E-05	4.70E-04
	<b>Total</b>	<b>3.30E-03</b>	<b>7.47E-02</b>	<b>1.97E-02</b>	<b>3.16E-03</b>	<b>2.29E-02</b>
<b>TOTAL</b>		<b>0.0154</b>	<b>0.1207</b>	<b>0.0330</b>	<b>0.0143</b>	<b>0.0474</b>

**Phase 1 Site Preparation**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2023</b>					
	Fugitive Dust	0	0.1933	9.93E-02	0	9.93E-02
	Off-Road	2.91E-02	2.91E-02		2.68E-02	2.68E-02
	Total	<b>2.91E-02</b>	<b>2.22E-01</b>	<b>9.93E-02</b>	<b>2.68E-02</b>	<b>1.26E-01</b>
Offsite						
	Hauling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Vendor	3.00E-05	1.12E-03	3.20E-04	3.00E-05	3.50E-04
	Worker	2.00E-05	4.21E-03	1.12E-03	2.00E-05	1.14E-03
	Total	<b>5.00E-05</b>	<b>5.33E-03</b>	<b>1.44E-03</b>	<b>5.00E-05</b>	<b>1.49E-03</b>
<b>TOTAL</b>		<b>0.0292</b>	<b>0.2277</b>	<b>0.1007</b>	<b>0.0269</b>	<b>0.1276</b>

**Phase 1 Rough Grading**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2023</b>					
	Fugitive Dust	0	0.143	5.13E-02	0	5.13E-02
	Off-Road	4.49E-02	4.49E-02		4.13E-02	4.13E-02
	Total	<b>4.49E-02</b>	<b>1.88E-01</b>	<b>5.13E-02</b>	<b>4.13E-02</b>	<b>9.25E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	9.00E-05	3.06E-03	8.70E-04	9.00E-05	9.50E-04
	Worker	4.00E-05	6.41E-03	1.70E-03	3.00E-05	1.74E-03
	Total	<b>1.30E-04</b>	<b>9.47E-03</b>	<b>2.57E-03</b>	<b>1.20E-04</b>	<b>2.69E-03</b>
<b>TOTAL</b>		<b>0.0450</b>	<b>0.1974</b>	<b>0.0539</b>	<b>0.0414</b>	<b>0.0952</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2024</b>					
	Fugitive Dust	0	0.0979	2.65E-02	0	2.65E-02
	Off-Road	1.87E-02	1.87E-02		1.72E-02	1.72E-02
	Total	<b>1.87E-02</b>	<b>1.17E-01</b>	<b>0.0265</b>	<b>1.72E-02</b>	<b>4.37E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.00E-05	1.36E-03	3.80E-04	4.00E-05	4.30E-04
	Worker	2.00E-05	2.85E-03	7.60E-04	1.00E-05	7.70E-04
	Total	<b>6.00E-05</b>	<b>4.21E-03</b>	<b>1.14E-03</b>	<b>5.00E-05</b>	<b>1.20E-03</b>
<b>TOTAL</b>		<b>0.0188</b>	<b>0.1208</b>	<b>0.0276</b>	<b>0.0173</b>	<b>0.0449</b>

**Phase 1 Utility Trenching**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2023</b>				
	Off-Road	4.81E-03	4.81E-03		4.42E-03	4.42E-03
	Total	<b>4.81E-03</b>	<b>4.81E-03</b>		<b>4.42E-03</b>	<b>4.42E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	1.00E-05	1.22E-03	3.20E-04	1.00E-05	3.30E-04
	Total	<b>1.00E-05</b>	<b>1.22E-03</b>	<b>3.20E-04</b>	<b>1.00E-05</b>	<b>3.30E-04</b>
<b>TOTAL</b>		<b>0.0048</b>	<b>0.0060</b>	<b>0.0003</b>	<b>0.0044</b>	<b>0.0048</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2024</b>				
	Off-Road	7.66E-03	7.66E-03		7.05E-03	7.05E-03
	Total	<b>7.66E-03</b>	<b>7.66E-03</b>		<b>7.05E-03</b>	<b>7.05E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	1.00E-05	2.04E-03	5.40E-04	1.00E-05	5.50E-04
	Total	<b>1.00E-05</b>	<b>2.04E-03</b>	<b>5.40E-04</b>	<b>1.00E-05</b>	<b>5.50E-04</b>
<b>TOTAL</b>		<b>0.0077</b>	<b>0.0097</b>	<b>0.0005</b>	<b>0.0071</b>	<b>0.0076</b>

**Phase 1 Fine Grading**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2024</b>				
	Fugitive Dust	0	0.1771	7.03E-02	0	7.03E-02
	Off-Road	6.01E-02	6.01E-02		5.53E-02	5.53E-02
	Total	<b>6.01E-02</b>	<b>2.37E-01</b>	<b>7.03E-02</b>	<b>5.53E-02</b>	<b>1.26E-01</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.40E-04	4.38E-03	1.24E-03	1.30E-04	1.37E-03
	Worker	5.00E-05	9.16E-03	2.43E-03	5.00E-05	2.48E-03
	Total	<b>1.90E-04</b>	<b>1.35E-02</b>	<b>3.67E-03</b>	<b>1.80E-04</b>	<b>3.85E-03</b>
<b>TOTAL</b>		<b>0.0603</b>	<b>0.2506</b>	<b>0.0740</b>	<b>0.0555</b>	<b>0.1295</b>

<b>Phase 1 - Paving</b>						
		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2024</b>				
	Off-Road	2.16E-02	2.16E-02		1.98E-02	1.98E-02
	Paving	0.00E+00	0.00E+00		0.00E+00	0.00E+00
	Total	<b>2.16E-02</b>	<b>2.16E-02</b>		<b>1.98E-02</b>	<b>1.98E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	4.00E-05	7.02E-03	1.87E-03	3.00E-05	1.90E-03
	Total	<b>4.00E-05</b>	<b>7.02E-03</b>	<b>1.87E-03</b>	<b>3.00E-05</b>	<b>1.90E-03</b>
<b>TOTAL</b>		<b>0.0216</b>	<b>0.0286</b>	<b>0.0019</b>	<b>0.0198</b>	<b>0.0217</b>

<b>Phase 1 Finishing/Landscaping</b>						
		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2024</b>				
	Off-Road	3.01E-03	3.01E-03		2.77E-03	2.77E-03
	Total	<b>3.01E-03</b>	<b>3.01E-03</b>		<b>2.77E-03</b>	<b>2.77E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	1.00E-05	1.39E-03	3.70E-04	1.00E-05	3.80E-04
	Total	<b>1.00E-05</b>	<b>1.39E-03</b>	<b>3.70E-04</b>	<b>1.00E-05</b>	<b>3.80E-04</b>
<b>TOTAL</b>		<b>0.0030</b>	<b>0.0044</b>	<b>0.0004</b>	<b>0.0028</b>	<b>0.0032</b>

<b>Phase 1 - Building Construction</b>						
		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2024</b>				
	Off-Road	5.12E-02	5.12E-02		4.82E-02	4.82E-02
	Total	<b>5.12E-02</b>	<b>5.12E-02</b>		<b>4.82E-02</b>	<b>4.82E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	9.40E-04	3.05E-02	8.61E-03	9.00E-04	9.51E-03
	Worker	1.07E-03	0.2005	5.33E-02	9.90E-04	5.43E-02
	Total	<b>2.01E-03</b>	<b>0.231</b>	<b>6.19E-02</b>	<b>1.89E-03</b>	<b>6.38E-02</b>
<b>TOTAL</b>		<b>0.0532</b>	<b>0.2822</b>	<b>0.0619</b>	<b>0.0501</b>	<b>0.1120</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2025</b>				
	Off-Road	2.85E-02	2.85E-02		2.68E-02	2.68E-02
	Total	<b>2.85E-02</b>	<b>2.85E-02</b>		<b>2.68E-02</b>	<b>2.68E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	6.10E-04	1.97E-02	5.57E-03	5.90E-04	6.16E-03
	Worker	6.60E-04	0.1297	3.45E-02	6.10E-04	3.51E-02
	Total	<b>1.27E-03</b>	<b>0.1494</b>	<b>4.00E-02</b>	<b>1.20E-03</b>	<b>4.12E-02</b>
<b>TOTAL</b>		<b>0.0298</b>	<b>0.1779</b>	<b>0.0400</b>	<b>0.0280</b>	<b>0.0680</b>

### Phase 1 - Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2025</b>					
	Archit. Coating	0	0		0	0
	Off-Road	2.32E-03	2.32E-03		2.32E-03	2.32E-03
	<b>Total</b>	<b>2.32E-03</b>	<b>2.32E-03</b>		<b>2.32E-03</b>	<b>2.32E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	1.10E-04	2.15E-02	5.72E-03	1.00E-04	5.82E-03
	<b>Total</b>	<b>1.10E-04</b>	<b>2.15E-02</b>	<b>5.72E-03</b>	<b>1.00E-04</b>	<b>5.82E-03</b>
<b>TOTAL</b>		<b>0.0024</b>	<b>0.0238</b>	<b>0.0057</b>	<b>0.0024</b>	<b>0.0081</b>

### Eastern Remediation Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2024</b>					
	Fugitive Dust	0	0.0252	1.30E-02	0	1.30E-02
	Off-Road	3.69E-03	3.69E-03		3.39E-03	3.39E-03
	<b>Total</b>	<b>3.69E-03</b>	<b>2.89E-02</b>	<b>1.30E-02</b>	<b>3.39E-03</b>	<b>1.64E-02</b>
Offsite						
	Hauling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Vendor	2.00E-05	5.80E-04	1.60E-04	2.00E-05	1.80E-04
	Worker	0.00E+00	5.50E-04	1.50E-04	0.00E+00	1.50E-04
	<b>Total</b>	<b>2.00E-05</b>	<b>1.13E-03</b>	<b>3.10E-04</b>	<b>2.00E-05</b>	<b>3.30E-04</b>
<b>TOTAL</b>		<b>0.0037</b>	<b>0.0300</b>	<b>0.0133</b>	<b>0.0034</b>	<b>0.0167</b>

### Eastern Remediation Rough Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2024</b>					
	Fugitive Dust	0	0.0339	1.33E-02	0	1.33E-02
	Off-Road	1.14E-02	1.14E-02		1.04E-02	1.04E-02
	<b>Total</b>	<b>1.14E-02</b>	<b>4.52E-02</b>	<b>1.33E-02</b>	<b>1.04E-02</b>	<b>2.38E-02</b>
Offsite						
	Hauling	3.25E-03	6.88E-02	1.81E-02	3.11E-03	2.12E-02
	Vendor	3.00E-05	8.30E-04	2.30E-04	2.00E-05	2.60E-04
	Worker	1.00E-05	1.73E-03	4.60E-04	1.00E-05	4.70E-04
	<b>Total</b>	<b>3.29E-03</b>	<b>7.14E-02</b>	<b>1.88E-02</b>	<b>3.14E-03</b>	<b>2.20E-02</b>
<b>TOTAL</b>		<b>0.0147</b>	<b>0.1166</b>	<b>0.0321</b>	<b>0.0135</b>	<b>0.0458</b>

### Phase 2 - Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2024</b>					
	Fugitive Dust	0	2.79E-01	1.43E-01	0	1.43E-01
	Off-Road	4.06E-02	4.06E-02		3.73E-02	3.73E-02
	<b>Total</b>	<b>4.06E-02</b>	<b>3.19E-01</b>	<b>1.43E-01</b>	<b>3.73E-02</b>	<b>1.80E-01</b>

Offsite	Hauling	0	0	0	0	0
	Vendor	5.00E-05	1.61E-03	4.50E-04	5.00E-05	5.00E-04
	Worker	3.00E-05	6.04E-03	1.61E-03	3.00E-05	1.64E-03
	Total	<b>8.00E-05</b>	<b>7.65E-03</b>	<b>2.06E-03</b>	<b>8.00E-05</b>	<b>2.14E-03</b>
<b>TOTAL</b>		<b>0.0407</b>	<b>0.3269</b>	<b>0.1448</b>	<b>0.0374</b>	<b>0.1821</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2025</b>					
	Fugitive Dust	0	3.93E-02	1.11E-02	0	1.11E-02
	Off-Road	2.17E-03	2.17E-03		2.00E-03	2.00E-03
	Total	<b>2.17E-03</b>	<b>4.14E-02</b>	<b>1.11E-02</b>	<b>2.00E-03</b>	<b>1.31E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	1.00E-04	3.00E-05	0.00E+00	3.00E-05
	Worker	0.00E+00	3.70E-04	1.00E-04	0.00E+00	1.00E-04
	Total	<b>0.00E+00</b>	<b>4.70E-04</b>	<b>1.30E-04</b>	<b>0.00E+00</b>	<b>1.30E-04</b>
<b>TOTAL</b>		<b>0.0022</b>	<b>0.0419</b>	<b>0.0112</b>	<b>0.0020</b>	<b>0.0132</b>

### Phase 2 - Rough Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2025</b>					
	Fugitive Dust	0	2.74E-01	1.09E-01	0	1.09E-01
	Off-Road	7.86E-02	7.86E-02		7.23E-02	7.23E-02
	Total	<b>7.86E-02</b>	<b>3.52E-01</b>	<b>1.09E-01</b>	<b>7.23E-02</b>	<b>1.81E-01</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.10E-04	6.77E-03	1.91E-03	2.00E-04	2.11E-03
	Worker	7.00E-05	1.41E-02	3.76E-03	7.00E-05	3.83E-03
	Total	<b>2.80E-04</b>	<b>2.09E-02</b>	<b>5.67E-03</b>	<b>2.70E-04</b>	<b>5.94E-03</b>
<b>TOTAL</b>		<b>0.0789</b>	<b>0.3730</b>	<b>0.1143</b>	<b>0.0726</b>	<b>0.1868</b>

### Phase 2 Utility Trenching

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2025</b>					
	Off-Road	1.92E-02	1.92E-02		1.77E-02	1.77E-02
	Total	<b>1.92E-02</b>	<b>1.92E-02</b>		<b>1.77E-02</b>	<b>1.77E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	3.00E-05	4.92E-03	1.31E-03	2.00E-05	1.33E-03
	Total	<b>3.00E-05</b>	<b>4.92E-03</b>	<b>1.31E-03</b>	<b>2.00E-05</b>	<b>1.33E-03</b>
<b>TOTAL</b>		<b>0.0192</b>	<b>0.0241</b>	<b>0.0013</b>	<b>0.0177</b>	<b>0.0190</b>

**Phase 2 - Fine Grading**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2025</b>					
	Fugitive Dust	0	2.77E-01	1.10E-01	0	1.10E-01
	Off-Road	7.97E-02	7.97E-02		7.34E-02	7.34E-02
	<b>Total</b>	<b>7.97E-02</b>	<b>3.57E-01</b>	<b>1.10E-01</b>	<b>7.34E-02</b>	<b>1.84E-01</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.10E-04	6.87E-03	1.94E-03	2.00E-04	2.14E-03
	Worker	7.00E-05	1.43E-02	3.81E-03	7.00E-05	3.88E-03
	<b>Total</b>	<b>2.80E-04</b>	<b>2.12E-02</b>	<b>5.75E-03</b>	<b>2.70E-04</b>	<b>6.02E-03</b>
<b>TOTAL</b>		<b>0.0800</b>	<b>0.3783</b>	<b>0.1159</b>	<b>0.0737</b>	<b>0.1895</b>

**Phase 2 - Paving**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2025</b>					
	Off-Road	1.72E-02	1.72E-02		1.58E-02	1.58E-02
	Paving	0.00E+00	0.00E+00		0.00E+00	0.00E+00
	<b>Total</b>	<b>1.72E-02</b>	<b>1.72E-02</b>		<b>1.58E-02</b>	<b>1.58E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	3.00E-05	6.26E-03	1.66E-03	3.00E-05	1.69E-03
	<b>Total</b>	<b>3.00E-05</b>	<b>6.26E-03</b>	<b>1.66E-03</b>	<b>3.00E-05</b>	<b>1.69E-03</b>
<b>TOTAL</b>		<b>0.0172</b>	<b>0.0235</b>	<b>0.0017</b>	<b>0.0158</b>	<b>0.0175</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2026</b>					
	Off-Road	1.28E-02	1.28E-02		1.17E-02	1.17E-02
	Paving	0.00E+00	0.00E+00		0.00E+00	0.00E+00
	<b>Total</b>	<b>1.28E-02</b>	<b>1.28E-02</b>		<b>1.17E-02</b>	<b>1.17E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	2.00E-05	4.65E-03	1.24E-03	2.00E-05	1.26E-03
	<b>Total</b>	<b>2.00E-05</b>	<b>4.65E-03</b>	<b>1.24E-03</b>	<b>2.00E-05</b>	<b>1.26E-03</b>
<b>TOTAL</b>		<b>0.0128</b>	<b>0.0175</b>	<b>0.0012</b>	<b>0.0117</b>	<b>0.0130</b>

**Phase 2 Finishing/Landscaping**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2025</b>				
	Off-Road	1.24E-03	1.24E-03		1.14E-03	1.14E-03
	Total	<b>1.24E-03</b>	<b>1.24E-03</b>		<b>1.14E-03</b>	<b>1.14E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	0.00E+00	7.00E-04	1.90E-04	0.00E+00	1.90E-04
	Total	<b>0.00E+00</b>	<b>7.00E-04</b>	<b>1.90E-04</b>	<b>0.00E+00</b>	<b>1.90E-04</b>
<b>TOTAL</b>		<b>0.0012</b>	<b>0.0019</b>	<b>0.0002</b>	<b>0.0011</b>	<b>0.0013</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2026</b>				
	Off-Road	2.56E-03	2.56E-03		2.35E-03	2.35E-03
	Total	<b>2.56E-03</b>	<b>2.56E-03</b>		<b>2.35E-03</b>	<b>2.35E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	1.00E-05	1.45E-03	3.90E-04	1.00E-05	3.90E-04
	Total	<b>1.00E-05</b>	<b>1.45E-03</b>	<b>3.90E-04</b>	<b>1.00E-05</b>	<b>3.90E-04</b>
<b>TOTAL</b>		<b>0.0026</b>	<b>0.0040</b>	<b>0.0004</b>	<b>0.0024</b>	<b>0.0027</b>

**Phase 2 - Building Construction**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2025</b>				
	Off-Road	2.90E-03	2.90E-03		2.73E-03	2.73E-03
	Total	<b>2.90E-03</b>	<b>2.90E-03</b>		<b>2.73E-03</b>	<b>2.73E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.80E-04	5.89E-03	1.66E-03	1.80E-04	1.84E-03
	Worker	2.00E-04	0.0383	1.02E-02	1.80E-04	1.04E-02
	Total	<b>3.80E-04</b>	<b>0.0442</b>	<b>1.19E-02</b>	<b>3.60E-04</b>	<b>1.22E-02</b>
<b>TOTAL</b>		<b>0.0033</b>	<b>0.0471</b>	<b>0.0119</b>	<b>0.0031</b>	<b>0.0149</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2026</b>				
	Off-Road	6.89E-02	6.89E-02		6.48E-02	6.48E-02
	Total	<b>6.89E-02</b>	<b>6.89E-02</b>		<b>6.48E-02</b>	<b>6.48E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.35E-03	1.40E-01	3.95E-02	4.16E-03	4.36E-02
	Worker	4.44E-03	0.9092	2.42E-01	4.08E-03	2.46E-01
	Total	<b>8.79E-03</b>	<b>1.049</b>	<b>2.81E-01</b>	<b>8.24E-03</b>	<b>2.90E-01</b>
<b>TOTAL</b>		<b>0.0777</b>	<b>1.1179</b>	<b>0.2813</b>	<b>0.0730</b>	<b>0.3543</b>



		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2027</b>				
	Off-Road	3.98E-02	3.98E-02		3.75E-02	3.75E-02
	Total	<b>3.98E-02</b>	<b>3.98E-02</b>		<b>3.75E-02</b>	<b>3.75E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.51E-03	8.09E-02	2.28E-02	2.40E-03	2.52E-02
	Worker	2.42E-03	0.5259	1.40E-01	2.23E-03	1.42E-01
	Total	<b>4.93E-03</b>	<b>0.6068</b>	<b>1.63E-01</b>	<b>4.63E-03</b>	<b>1.67E-01</b>
<b>TOTAL</b>		<b>0.0447</b>	<b>0.6466</b>	<b>0.1627</b>	<b>0.0421</b>	<b>0.2049</b>

### Phase 2 - Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2027</b>				
	Archit. Coating	0	0		0	0
	Off-Road	3.66E-03	3.66E-03		3.66E-03	3.66E-03
	Total	<b>3.66E-03</b>	<b>3.66E-03</b>		<b>3.66E-03</b>	<b>3.66E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	4.60E-04	9.89E-02	2.63E-02	4.20E-04	2.67E-02
	Total	<b>4.60E-04</b>	<b>9.89E-02</b>	<b>2.63E-02</b>	<b>4.20E-04</b>	<b>2.67E-02</b>
<b>TOTAL</b>		<b>0.0041</b>	<b>0.1026</b>	<b>0.0263</b>	<b>0.0041</b>	<b>0.0304</b>

### Phase 3 - Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2026</b>				
	Fugitive Dust	0	1.98E-01	1.02E-01	0	1.02E-01
	Off-Road	2.55E-02	2.55E-02		2.35E-02	2.35E-02
	Total	<b>2.55E-02</b>	<b>2.23E-01</b>	<b>1.02E-01</b>	<b>2.35E-02</b>	<b>1.25E-01</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.00E-05	1.14E-03	3.20E-04	3.00E-05	3.60E-04
	Worker	2.00E-05	4.30E-03	1.14E-03	2.00E-05	1.16E-03
	Total	<b>6.00E-05</b>	<b>5.44E-03</b>	<b>1.46E-03</b>	<b>5.00E-05</b>	<b>1.52E-03</b>
<b>TOTAL</b>		<b>0.0256</b>	<b>0.2284</b>	<b>0.1030</b>	<b>0.0236</b>	<b>0.1265</b>

### Phase 3 - Rough Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2026</b>				
	Fugitive Dust	0	2.40E-01	6.11E-02	0	6.11E-02
	Off-Road	3.51E-02	3.51E-02		3.23E-02	3.23E-02
	Total	<b>3.51E-02</b>	<b>2.75E-01</b>	<b>6.11E-02</b>	<b>3.23E-02</b>	<b>9.34E-02</b>

Offsite	Hauling	0	0	0	0	0
	Vendor	9.00E-05	3.02E-03	8.50E-04	9.00E-05	9.40E-04
	Worker	3.00E-05	6.31E-03	1.68E-03	3.00E-05	1.71E-03
	Total	<b>1.20E-04</b>	<b>9.33E-03</b>	<b>2.53E-03</b>	<b>1.20E-04</b>	<b>2.65E-03</b>
<b>TOTAL</b>		<b>0.0352</b>	<b>0.2840</b>	<b>0.0636</b>	<b>0.0324</b>	<b>0.0961</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2027</b>					
	Fugitive Dust	0	3.83E-01	1.40E-01	0	1.40E-01
	Off-Road	9.78E-02	9.78E-02		9.00E-02	9.00E-02
	Total	<b>9.78E-02</b>	<b>4.80E-01</b>	<b>1.40E-01</b>	<b>9.00E-02</b>	<b>2.30E-01</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.60E-04	8.42E-03	2.38E-03	2.50E-04	2.63E-03
	Worker	8.00E-05	1.76E-02	4.68E-03	7.00E-05	4.75E-03
	Total	<b>3.40E-04</b>	<b>2.60E-02</b>	<b>7.06E-03</b>	<b>3.20E-04</b>	<b>7.38E-03</b>
<b>TOTAL</b>		<b>0.0981</b>	<b>0.5063</b>	<b>0.1468</b>	<b>0.0903</b>	<b>0.2371</b>

### Phase 3 Utility Trenching

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2027</b>					
	Off-Road	2.62E-02	2.62E-02		2.41E-02	2.41E-02
	Total	<b>2.62E-02</b>	<b>2.62E-02</b>		<b>2.41E-02</b>	<b>2.41E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	3.00E-05	6.71E-03	1.79E-03	3.00E-05	1.81E-03
	Total	<b>3.00E-05</b>	<b>6.71E-03</b>	<b>1.79E-03</b>	<b>3.00E-05</b>	<b>1.81E-03</b>
<b>TOTAL</b>		<b>0.0262</b>	<b>0.0329</b>	<b>0.0018</b>	<b>0.0241</b>	<b>0.0259</b>

### Phase 3 - Fine Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2027</b>					
	Fugitive Dust	0	3.03E-01	1.10E-01	0	1.10E-01
	Off-Road	7.63E-02	7.63E-02		7.02E-02	7.02E-02
	Total	<b>7.63E-02</b>	<b>3.79E-01</b>	<b>1.10E-01</b>	<b>7.02E-02</b>	<b>1.80E-01</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.00E-04	6.57E-03	1.86E-03	2.00E-04	2.05E-03
	Worker	6.00E-05	1.37E-02	3.65E-03	6.00E-05	3.71E-03
	Total	<b>2.60E-04</b>	<b>2.03E-02</b>	<b>5.51E-03</b>	<b>2.60E-04</b>	<b>5.76E-03</b>
<b>TOTAL</b>		<b>0.0766</b>	<b>0.3996</b>	<b>0.1150</b>	<b>0.0705</b>	<b>0.1855</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2028</b>				
	Fugitive Dust	0	2.00E-01	5.29E-02	0	5.29E-02
	Off-Road	3.11E-02	3.11E-02		2.86E-02	2.86E-02
	Total	<b>3.11E-02</b>	<b>2.31E-01</b>	<b>5.29E-02</b>	<b>2.86E-02</b>	<b>8.15E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	8.00E-05	2.68E-03	7.60E-04	8.00E-05	8.40E-04
	Worker	2.00E-05	5.59E-03	1.49E-03	2.00E-05	1.51E-03
	Total	<b>1.00E-04</b>	<b>8.27E-03</b>	<b>2.25E-03</b>	<b>1.00E-04</b>	<b>2.35E-03</b>
<b>TOTAL</b>		<b>0.0312</b>	<b>0.2394</b>	<b>0.0552</b>	<b>0.0287</b>	<b>0.0839</b>

### Phase 3 - Paving

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2027</b>				
	Off-Road	1.80E-02	1.80E-02		1.66E-02	1.66E-02
	Paving	0.00E+00	0.00E+00		0.00E+00	0.00E+00
	Total	<b>1.80E-02</b>	<b>1.80E-02</b>		<b>1.66E-02</b>	<b>1.66E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	3.00E-05	6.56E-03	1.74E-03	3.00E-05	1.77E-03
	Total	<b>3.00E-05</b>	<b>6.56E-03</b>	<b>1.74E-03</b>	<b>3.00E-05</b>	<b>1.77E-03</b>
<b>TOTAL</b>		<b>0.0180</b>	<b>0.0246</b>	<b>0.0017</b>	<b>0.0166</b>	<b>0.0184</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2028</b>				
	Off-Road	1.15E-02	1.15E-02		1.06E-02	1.06E-02
	Paving	0.00E+00	0.00E+00		0.00E+00	0.00E+00
	Total	<b>1.15E-02</b>	<b>1.15E-02</b>		<b>1.06E-02</b>	<b>1.06E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	2.00E-05	4.19E-03	1.12E-03	2.00E-05	1.13E-03
	Total	<b>2.00E-05</b>	<b>4.19E-03</b>	<b>1.12E-03</b>	<b>2.00E-05</b>	<b>1.13E-03</b>
<b>TOTAL</b>		<b>0.0115</b>	<b>0.0157</b>	<b>0.0011</b>	<b>0.0106</b>	<b>0.0117</b>

### Phase 3 Finishing/Landscaping

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2027</b>				
	Off-Road	1.08E-03	1.08E-03		9.90E-04	9.90E-04
	Total	<b>1.08E-03</b>	<b>1.08E-03</b>		<b>9.90E-04</b>	<b>9.90E-04</b>

Offsite	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	0.00E+00	6.10E-04	1.60E-04	0.00E+00	1.60E-04
	Total	<b>0.00E+00</b>	<b>6.10E-04</b>	<b>1.60E-04</b>	<b>0.00E+00</b>	<b>1.60E-04</b>
<b>TOTAL</b>		<b>0.0011</b>	<b>0.0017</b>	<b>0.0002</b>	<b>0.0010</b>	<b>0.0012</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2028</b>					
	Off-Road	2.80E-03	2.80E-03		2.58E-03	2.58E-03
	Total	<b>2.80E-03</b>	<b>2.80E-03</b>		<b>2.58E-03</b>	<b>2.58E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	1.00E-05	1.59E-03	4.20E-04	1.00E-05	4.30E-04
	Total	<b>1.00E-05</b>	<b>1.59E-03</b>	<b>4.20E-04</b>	<b>1.00E-05</b>	<b>4.30E-04</b>
<b>TOTAL</b>		<b>0.0028</b>	<b>0.0044</b>	<b>0.0004</b>	<b>0.0026</b>	<b>0.0030</b>

### Phase 3 - Building Construction

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2028</b>					
	Off-Road	5.38E-02	5.38E-02		5.06E-02	5.06E-02
	Total	<b>5.38E-02</b>	<b>5.38E-02</b>		<b>5.06E-02</b>	<b>5.06E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.70E-04	8.69E-03	2.45E-03	2.60E-04	2.71E-03
	Worker	2.20E-04	0.0508	1.35E-02	2.00E-04	1.37E-02
	Total	<b>4.90E-04</b>	<b>0.0595</b>	<b>1.60E-02</b>	<b>4.60E-04</b>	<b>1.64E-02</b>
<b>TOTAL</b>		<b>0.0543</b>	<b>0.1133</b>	<b>0.0160</b>	<b>0.0511</b>	<b>0.0670</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2029</b>					
	Off-Road	6.89E-02	6.89E-02		6.48E-02	6.48E-02
	Total	<b>6.89E-02</b>	<b>6.89E-02</b>		<b>6.48E-02</b>	<b>6.48E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	3.40E-04	1.11E-02	3.14E-03	3.30E-04	3.47E-03
	Worker	2.60E-04	0.065	1.73E-02	2.40E-04	1.75E-02
	Total	<b>6.00E-04</b>	<b>0.0761</b>	<b>2.04E-02</b>	<b>5.70E-04</b>	<b>2.10E-02</b>
<b>TOTAL</b>		<b>0.0695</b>	<b>0.1450</b>	<b>0.0204</b>	<b>0.0654</b>	<b>0.0858</b>

		2030	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		8.07E-03	8.07E-03		8.07E-03	8.07E-03
	Total		<b>8.07E-03</b>	<b>8.07E-03</b>		<b>8.07E-03</b>	<b>8.07E-03</b>
Offsite							
	Hauling		0	0	0	0	0
	Vendor		1.40E-04	4.64E-03	1.31E-03	1.40E-04	1.45E-03
	Worker		1.00E-04	0.0271	7.22E-03	9.00E-05	7.32E-03
	Total		<b>2.40E-04</b>	<b>0.0318</b>	<b>8.53E-03</b>	<b>2.30E-04</b>	<b>8.77E-03</b>
<b>TOTAL</b>			<b>0.0083</b>	<b>0.0399</b>	<b>0.0085</b>	<b>0.0083</b>	<b>0.0168</b>

### Phase 3 - Architectural Coating

		2029	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Archit. Coating		0.00E+00	0.00E+00		0.00E+00	0.00E+00
	Off-Road		8.50E-04	8.50E-04		8.50E-04	8.50E-04
	Total		<b>8.50E-04</b>	<b>8.50E-04</b>		<b>8.50E-04</b>	<b>8.50E-04</b>
Offsite							
	Hauling		0	0	0	0	0
	Vendor		0	0	0	0	0
	Worker		1.00E-05	1.68E-03	4.50E-04	1.00E-05	4.50E-04
	Total		<b>1.00E-05</b>	<b>1.68E-03</b>	<b>4.50E-04</b>	<b>1.00E-05</b>	<b>4.50E-04</b>
<b>TOTAL</b>			<b>0.0009</b>	<b>0.0025</b>	<b>0.0005</b>	<b>0.0009</b>	<b>0.0013</b>

		2030	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Archit. Coating		0	0		0	0
	Off-Road		1.11E-03	1.11E-03		1.11E-03	1.11E-03
	Total		<b>1.11E-03</b>	<b>1.11E-03</b>		<b>1.11E-03</b>	<b>1.11E-03</b>
Offsite							
	Hauling		0	0	0	0	0
	Vendor		0.00E+00	0	0	0.00E+00	0
	Worker		2.00E-05	5.54E-03	1.47E-03	2.00E-05	1.49E-03
	Total		<b>2.00E-05</b>	<b>5.54E-03</b>	<b>1.47E-03</b>	<b>2.00E-05</b>	<b>1.49E-03</b>
<b>TOTAL</b>			<b>0.0011</b>	<b>0.0067</b>	<b>0.0015</b>	<b>0.0011</b>	<b>0.0026</b>

## Average Daily Emissions and Emission Rates: Mitigated

### Onsite Construction PM10 Exhaust Emissions<sup>1</sup>

Phases	Year	Annual PM10 Exhaust Emissions (Tons/Year)	Annual PM10 Exhaust Emissions (lbs/Year)	# of Construction Days/Year	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/hr)	Emission Rate (g/s)	# of Total Workdays/Year	Construction Duration (Yr) <sup>2</sup>
WM & P1	2023	0.0059	11.84	109	0.11	1.36E-02	1.71E-03	260	0.42
P1, EM, & P2	2024	0.0412	82.32	262	0.31	3.93E-02	4.95E-03	262	1.00
P1&P2	2025	0.0439	87.86	261	0.34	4.21E-02	5.30E-03	261	1.00
P2&P3	2026	0.1449	289.72	261	1.11	1.39E-01	1.75E-02	261	1.00
P2&P3	2027	0.2628	525.68	261	2.01	2.52E-01	3.17E-02	261	1.00
P3	2028	0.0992	198.40	260	0.76	9.54E-02	1.20E-02	260	1.00
P3	2029	0.0698	139.50	261	0.53	6.68E-02	8.42E-03	261	1.00
P3	2030	0.0092	18.36	109	0.17	2.11E-02	2.65E-03	261	0.42
				<b>1,784</b>					<b>6.84</b>

### Offsite Construction PM10 Exhaust Emissions<sup>1</sup>

Phases	Year	Annual PM10 Exhaust Emissions (Tons/Year)	Annual PM10 Exhaust Emissions (lbs/Year)	# of Construction Days/Year	Average Daily Emissions (lbs/day)	Hauling Emissions w/in 1,000 ft (lbs/day) <sup>3</sup>	Emission Rate (lbs/hr)	Emission Rate (g/s)
WM & P1	2023	0.0035	7.00	109	6.42E-02	5.38E-03	6.72E-04	8.47E-05
P1, EM, & P2	2024	0.0057	11.42	262	4.36E-02	9.37E-03	1.17E-03	1.48E-04
P1&P2	2025	0.0024	4.76	261	1.82E-02	9.52E-03	1.19E-03	1.50E-04
P2&P3	2026	0.0090	18.00	261	6.90E-02	3.60E-02	4.50E-03	5.67E-04
P2&P3	2027	0.0061	12.10	261	4.64E-02	2.42E-02	3.03E-03	3.81E-04
P3	2028	0.0006	1.24	260	4.77E-03	2.49E-03	3.11E-04	3.92E-05
P3	2029	0.0006	1.22	261	4.67E-03	2.44E-03	3.05E-04	3.84E-05
P3	2030	0.0003	0.52	109	4.77E-03	2.49E-03	3.11E-04	3.92E-05

Note: Emissions evenly distributed over 246 modeled volume sources.

	2023	2024	2025	2026	2027	2028	2029	2030
Total Haul Trips	2,270	2,187	0	0	0	0	0	0
Total Vendor Trips	2,009	12,907	12,928	47,304	31,504	3,736	3,654	1,526
Total Trips	4,279	15,094	12,928	47,304	31,504	3,736	3,654	1,526
Average Distance Per Haul Trip (mile/trip)	75	75						
Average Distance Per Vendor Trip (mile/trip)	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
Total Haul Trip Miles	170,250.0	164,025.0						
Total Vendor Trip Miles	13,864	89,056	89,203	326,398	217,378	25,778	25,213	10,529
Total Haul and Vendor Trip Miles	184,114	253,081	89,203	326,398	217,378	25,778	25,213	10,529
Haul Length within 1,000 ft of Site (mile) <sup>4</sup>	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
Total Miles Traveled within 1,000 ft of Site	15,420	54,389	46,585	170,455	113,521	13,462	13,167	5,499
Hours per work day (7:00 AM to 4:00 PM, 1-hour of breaks) <sup>5</sup>	8	8	8	8	8	8	8	8

<sup>1</sup> DPM emissions taken as PM<sub>10</sub> exhaust emissions from CalEEMod annual emissions.

<sup>2</sup> Construction durations determined for each year to adjust receptor exposures to the exposure durations for each construction year (see App C - Risk Calculations).

<sup>3</sup> Offsite trip length is based on the CalEEMod default vendor trip length of 6.9 miles per trip for Phases 1 through 3. The Western Remediation and Eastern Remediation haul length of 75 miles per trip is based on the haul truck distance between the project site and the assumed receiving facility at 12328 Hibiscus Road, Adelanto, CA 92301.

<sup>4</sup> Emissions from CalEEMod offsite average daily emissions, which is based on proportioned haul truck trip distances, are adjusted to evaluate emissions from the 3.60-mile route within 1,000 of the project site.

<sup>5</sup> Work hours applied in By Hour/Day (HRDOW) variable emissions module in air dispersion model (see App B - Air Dispersion Model Output Files).

## Annual Construction Emissions

Mitigated emissions are highlighted.

### Western Remediation Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2023</b>					
	Fugitive Dust	0	0.0252	1.30E-02	0	1.30E-02
	Off-Road	1.90E-04	1.90E-04		1.90E-04	1.90E-04
	Total	<b>1.90E-04</b>	<b>2.54E-02</b>	<b>1.30E-02</b>	<b>1.90E-04</b>	<b>1.32E-02</b>
Offsite						
	Hauling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Vendor	1.00E-05	2.90E-04	8.00E-05	1.00E-05	9.00E-05
	Worker	0.00E+00	5.50E-04	1.50E-04	0.00E+00	1.50E-04
	Total	<b>1.00E-05</b>	<b>8.40E-04</b>	<b>2.30E-04</b>	<b>1.00E-05</b>	<b>2.40E-04</b>
<b>TOTAL</b>		<b>0.0002</b>	<b>0.0262</b>	<b>0.0132</b>	<b>0.0002</b>	<b>0.0134</b>

### Western Remediation Rough Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2023</b>					
	Fugitive Dust	0	0.0339	1.33E-02	0	1.33E-02
	Off-Road	8.60E-04	8.60E-04		8.60E-04	8.60E-04
	Total	<b>8.60E-04</b>	<b>3.47E-02</b>	<b>1.33E-02</b>	<b>8.60E-04</b>	<b>1.42E-02</b>
Offsite						
	Hauling	3.24E-03	7.13E-02	1.88E-02	3.10E-03	2.19E-02
	Vendor	5.00E-05	1.65E-03	4.70E-04	5.00E-05	5.10E-04
	Worker	1.00E-05	1.73E-03	4.60E-04	1.00E-05	4.70E-04
	Total	<b>3.30E-03</b>	<b>7.47E-02</b>	<b>1.97E-02</b>	<b>3.16E-03</b>	<b>2.29E-02</b>
<b>TOTAL</b>		<b>0.0042</b>	<b>0.1094</b>	<b>0.0330</b>	<b>0.0040</b>	<b>0.0371</b>

### Phase 1 Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2023</b>					
	Fugitive Dust	0	0.1933	9.93E-02	0	9.93E-02
	Off-Road	1.43E-03	1.43E-03		1.43E-03	1.43E-03
	Total	<b>1.43E-03</b>	<b>1.95E-01</b>	<b>9.93E-02</b>	<b>1.43E-03</b>	<b>1.01E-01</b>

Offsite	Hauling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Vendor	3.00E-05	1.12E-03	3.20E-04	3.00E-05	3.50E-04
	Worker	2.00E-05	4.21E-03	1.12E-03	2.00E-05	1.14E-03
	Total	<b>5.00E-05</b>	<b>5.33E-03</b>	<b>1.44E-03</b>	<b>5.00E-05</b>	<b>1.49E-03</b>
<b>TOTAL</b>		<b>0.0015</b>	<b>0.2000</b>	<b>0.1007</b>	<b>0.0015</b>	<b>0.1023</b>

### Phase 1 Rough Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2023</b>					
	Fugitive Dust	0	0.143	5.13E-02	0	5.13E-02
	Off-Road	3.20E-03	3.20E-03		3.20E-03	3.20E-03
	Total	<b>3.20E-03</b>	<b>1.46E-01</b>	<b>5.13E-02</b>	<b>3.20E-03</b>	<b>5.45E-02</b>
Offsite	Hauling	0	0	0	0	0
	Vendor	9.00E-05	3.06E-03	8.70E-04	9.00E-05	9.50E-04
	Worker	4.00E-05	6.41E-03	1.70E-03	3.00E-05	1.74E-03
	Total	<b>1.30E-04</b>	<b>9.47E-03</b>	<b>2.57E-03</b>	<b>1.20E-04</b>	<b>2.69E-03</b>
<b>TOTAL</b>		<b>0.0033</b>	<b>0.1557</b>	<b>0.0539</b>	<b>0.0033</b>	<b>0.0572</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2024</b>					
	Fugitive Dust	0	0.0979	2.65E-02	0	2.65E-02
	Off-Road	1.42E-03	1.42E-03		1.42E-03	1.42E-03
	Total	<b>1.42E-03</b>	<b>9.94E-02</b>	<b>0.0265</b>	<b>1.42E-03</b>	<b>2.79E-02</b>
Offsite	Hauling	0	0	0	0	0
	Vendor	4.00E-05	1.36E-03	3.80E-04	4.00E-05	4.30E-04
	Worker	2.00E-05	2.85E-03	7.60E-04	1.00E-05	7.70E-04
	Total	<b>6.00E-05</b>	<b>4.21E-03</b>	<b>1.14E-03</b>	<b>5.00E-05</b>	<b>1.20E-03</b>
<b>TOTAL</b>		<b>0.0015</b>	<b>0.1036</b>	<b>0.0276</b>	<b>0.0015</b>	<b>0.0291</b>

### Phase 1 Utility Trenching

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2023</b>					
	Off-Road	2.40E-04	2.40E-04		2.40E-04	2.40E-04
	Total	<b>2.40E-04</b>	<b>2.40E-04</b>		<b>2.40E-04</b>	<b>2.40E-04</b>
Offsite	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	1.00E-05	1.22E-03	3.20E-04	1.00E-05	3.30E-04
	Total	<b>1.00E-05</b>	<b>1.22E-03</b>	<b>3.20E-04</b>	<b>1.00E-05</b>	<b>3.30E-04</b>
<b>TOTAL</b>		<b>0.0003</b>	<b>0.0015</b>	<b>0.0003</b>	<b>0.0003</b>	<b>0.0006</b>



		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2024</b>				
	Off-Road	4.00E-04	4.00E-04		4.00E-04	4.00E-04
	Total	<b>4.00E-04</b>	<b>4.00E-04</b>		<b>4.00E-04</b>	<b>4.00E-04</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	1.00E-05	2.04E-03	5.40E-04	1.00E-05	5.50E-04
	Total	<b>1.00E-05</b>	<b>2.04E-03</b>	<b>5.40E-04</b>	<b>1.00E-05</b>	<b>5.50E-04</b>
<b>TOTAL</b>		<b>0.0004</b>	<b>0.0024</b>	<b>0.0005</b>	<b>0.0004</b>	<b>0.0010</b>

### Phase 1 Fine Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2024</b>				
	Fugitive Dust	0	0.1771	7.03E-02	0	7.03E-02
	Off-Road	4.57E-03	4.57E-03		4.57E-03	4.57E-03
	Total	<b>4.57E-03</b>	<b>1.82E-01</b>	<b>7.03E-02</b>	<b>4.57E-03</b>	<b>7.49E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.40E-04	4.38E-03	1.24E-03	1.30E-04	1.37E-03
	Worker	5.00E-05	9.16E-03	2.43E-03	5.00E-05	2.48E-03
	Total	<b>1.90E-04</b>	<b>1.35E-02</b>	<b>3.67E-03</b>	<b>1.80E-04</b>	<b>3.85E-03</b>
<b>TOTAL</b>		<b>0.0048</b>	<b>0.1951</b>	<b>0.0740</b>	<b>0.0048</b>	<b>0.0788</b>

### Phase 1 - Paving

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2024</b>				
	Off-Road	2.16E-02	2.16E-02		1.98E-02	1.98E-02
	Paving	0.00E+00	0.00E+00		0.00E+00	0.00E+00
	Total	<b>2.16E-02</b>	<b>2.16E-02</b>		<b>1.98E-02</b>	<b>1.98E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	4.00E-05	7.02E-03	1.87E-03	3.00E-05	1.90E-03
	Total	<b>4.00E-05</b>	<b>7.02E-03</b>	<b>1.87E-03</b>	<b>3.00E-05</b>	<b>1.90E-03</b>
<b>TOTAL</b>		<b>0.0216</b>	<b>0.0286</b>	<b>0.0019</b>	<b>0.0198</b>	<b>0.0217</b>

<b>Phase 1 Finishing/Landscaping</b>		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2024</b>					
	Off-Road	3.01E-03	3.01E-03		2.77E-03	2.77E-03
	Total	<b>3.01E-03</b>	<b>3.01E-03</b>		<b>2.77E-03</b>	<b>2.77E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	1.00E-05	1.39E-03	3.70E-04	1.00E-05	3.80E-04
	Total	<b>1.00E-05</b>	<b>1.39E-03</b>	<b>3.70E-04</b>	<b>1.00E-05</b>	<b>3.80E-04</b>
<b>TOTAL</b>		<b>0.0030</b>	<b>0.0044</b>	<b>0.0004</b>	<b>0.0028</b>	<b>0.0032</b>

<b>Phase 1 - Building Construction</b>		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2024</b>					
	Off-Road	7.06E-03	7.06E-03		7.06E-03	7.06E-03
	Total	<b>7.06E-03</b>	<b>7.06E-03</b>		<b>7.06E-03</b>	<b>7.06E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	9.40E-04	3.05E-02	8.61E-03	9.00E-04	9.51E-03
	Worker	1.07E-03	0.2005	5.33E-02	9.90E-04	5.43E-02
	Total	<b>2.01E-03</b>	<b>0.231</b>	<b>6.19E-02</b>	<b>1.89E-03</b>	<b>6.38E-02</b>
<b>TOTAL</b>		<b>0.0091</b>	<b>0.2381</b>	<b>0.0619</b>	<b>0.0090</b>	<b>0.0709</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2025</b>					
	Off-Road	4.57E-03	4.57E-03		4.57E-03	4.57E-03
	Total	<b>4.57E-03</b>	<b>4.57E-03</b>		<b>4.57E-03</b>	<b>4.57E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	6.10E-04	1.97E-02	5.57E-03	5.90E-04	6.16E-03
	Worker	6.60E-04	0.1297	3.45E-02	6.10E-04	3.51E-02
	Total	<b>1.27E-03</b>	<b>0.1494</b>	<b>4.00E-02</b>	<b>1.20E-03</b>	<b>4.12E-02</b>
<b>TOTAL</b>		<b>0.0058</b>	<b>0.1540</b>	<b>0.0400</b>	<b>0.0058</b>	<b>0.0458</b>

<b>Phase 1 - Architectural Coating</b>		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2025</b>					
	Archit. Coating	0	0		0	0
	Off-Road	2.32E-03	2.32E-03		2.32E-03	2.32E-03
	Total	<b>2.32E-03</b>	<b>2.32E-03</b>		<b>2.32E-03</b>	<b>2.32E-03</b>

Offsite	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	1.10E-04	2.15E-02	5.72E-03	1.00E-04	5.82E-03
	Total	<b>1.10E-04</b>	<b>2.15E-02</b>	<b>5.72E-03</b>	<b>1.00E-04</b>	<b>5.82E-03</b>
<b>TOTAL</b>		<b>0.0024</b>	<b>0.0238</b>	<b>0.0057</b>	<b>0.0024</b>	<b>0.0081</b>

### Eastern Remediation Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2024</b>					
	Fugitive Dust	0	0.0252	1.30E-02	0	1.30E-02
	Off-Road	1.90E-04	1.90E-04		1.90E-04	1.90E-04
	Total	<b>1.90E-04</b>	<b>2.54E-02</b>	<b>1.30E-02</b>	<b>1.90E-04</b>	<b>1.32E-02</b>
Offsite	Hauling	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Vendor	2.00E-05	5.80E-04	1.60E-04	2.00E-05	1.80E-04
	Worker	0.00E+00	5.50E-04	1.50E-04	0.00E+00	1.50E-04
	Total	<b>2.00E-05</b>	<b>1.13E-03</b>	<b>3.10E-04</b>	<b>2.00E-05</b>	<b>3.30E-04</b>
<b>TOTAL</b>		<b>0.0002</b>	<b>0.0265</b>	<b>0.0133</b>	<b>0.0002</b>	<b>0.0135</b>

### Eastern Remediation Rough Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2024</b>					
	Fugitive Dust	0	0.0339	1.33E-02	0	1.33E-02
	Off-Road	8.60E-04	8.60E-04		8.60E-04	8.60E-04
	Total	<b>8.60E-04</b>	<b>3.47E-02</b>	<b>1.33E-02</b>	<b>8.60E-04</b>	<b>1.42E-02</b>
Offsite	Hauling	3.25E-03	6.88E-02	1.81E-02	3.11E-03	2.12E-02
	Vendor	3.00E-05	8.30E-04	2.30E-04	2.00E-05	2.60E-04
	Worker	1.00E-05	1.73E-03	4.60E-04	1.00E-05	4.70E-04
	Total	<b>3.29E-03</b>	<b>7.14E-02</b>	<b>1.88E-02</b>	<b>3.14E-03</b>	<b>2.20E-02</b>
<b>TOTAL</b>		<b>0.0042</b>	<b>0.1061</b>	<b>0.0321</b>	<b>0.0040</b>	<b>0.0362</b>

**Phase 2 - Site Preparation**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2024</b>					
	Fugitive Dust	0	2.79E-01	1.43E-01	0	1.43E-01
	Off-Road	2.05E-03	2.05E-03		2.05E-03	2.05E-03
	Total	<b>2.05E-03</b>	<b>2.81E-01</b>	<b>1.43E-01</b>	<b>2.05E-03</b>	<b>1.45E-01</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	5.00E-05	1.61E-03	4.50E-04	5.00E-05	5.00E-04
	Worker	3.00E-05	6.04E-03	1.61E-03	3.00E-05	1.64E-03
	Total	<b>8.00E-05</b>	<b>7.65E-03</b>	<b>2.06E-03</b>	<b>8.00E-05</b>	<b>2.14E-03</b>
<b>TOTAL</b>		<b>0.0021</b>	<b>0.2884</b>	<b>0.1448</b>	<b>0.0021</b>	<b>0.1468</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2025</b>					
	Fugitive Dust	0	3.93E-02	1.11E-02	0	1.11E-02
	Off-Road	1.20E-04	1.20E-04		1.20E-04	1.20E-04
	Total	<b>1.20E-04</b>	<b>3.94E-02</b>	<b>1.11E-02</b>	<b>1.20E-04</b>	<b>1.12E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	1.00E-04	3.00E-05	0.00E+00	3.00E-05
	Worker	0.00E+00	3.70E-04	1.00E-04	0.00E+00	1.00E-04
	Total	<b>0.00E+00</b>	<b>4.70E-04</b>	<b>1.30E-04</b>	<b>0.00E+00</b>	<b>1.30E-04</b>
<b>TOTAL</b>		<b>0.0001</b>	<b>0.0399</b>	<b>0.0112</b>	<b>0.0001</b>	<b>0.0113</b>

**Phase 2 - Rough Grading**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2025</b>					
	Fugitive Dust	0	2.74E-01	1.09E-01	0	1.09E-01
	Off-Road	7.06E-03	7.06E-03		7.06E-03	7.06E-03
	Total	<b>7.06E-03</b>	<b>2.81E-01</b>	<b>1.09E-01</b>	<b>7.06E-03</b>	<b>1.16E-01</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.10E-04	6.77E-03	1.91E-03	2.00E-04	2.11E-03
	Worker	7.00E-05	1.41E-02	3.76E-03	7.00E-05	3.83E-03
	Total	<b>2.80E-04</b>	<b>2.09E-02</b>	<b>5.67E-03</b>	<b>2.70E-04</b>	<b>5.94E-03</b>
<b>TOTAL</b>		<b>0.0073</b>	<b>0.3014</b>	<b>0.1143</b>	<b>0.0073</b>	<b>0.1215</b>

**Phase 2 Utility Trenching**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2025</b>				
	Off-Road	1.36E-03	1.36E-03		1.36E-03	1.36E-03
	Total	<b>1.36E-03</b>	<b>1.36E-03</b>		<b>1.36E-03</b>	<b>1.36E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	3.00E-05	4.92E-03	1.31E-03	2.00E-05	1.33E-03
	Total	<b>3.00E-05</b>	<b>4.92E-03</b>	<b>1.31E-03</b>	<b>2.00E-05</b>	<b>1.33E-03</b>
<b>TOTAL</b>		<b>0.0014</b>	<b>0.0063</b>	<b>0.0013</b>	<b>0.0014</b>	<b>0.0027</b>

**Phase 2 - Fine Grading**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2025</b>				
	Fugitive Dust	0	2.77E-01	1.10E-01	0	1.10E-01
	Off-Road	7.16E-03	7.16E-03		7.16E-03	7.16E-03
	Total	<b>7.16E-03</b>	<b>2.85E-01</b>	<b>1.10E-01</b>	<b>7.16E-03</b>	<b>1.17E-01</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.10E-04	6.87E-03	1.94E-03	2.00E-04	2.14E-03
	Worker	7.00E-05	1.43E-02	3.81E-03	7.00E-05	3.88E-03
	Total	<b>2.80E-04</b>	<b>2.12E-02</b>	<b>5.75E-03</b>	<b>2.70E-04</b>	<b>6.02E-03</b>
<b>TOTAL</b>		<b>0.0074</b>	<b>0.3057</b>	<b>0.1159</b>	<b>0.0074</b>	<b>0.1233</b>

**Phase 2 - Paving**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2025</b>				
	Off-Road	1.72E-02	1.72E-02		1.58E-02	1.58E-02
	Paving	0.00E+00	0.00E+00		0.00E+00	0.00E+00
	Total	<b>1.72E-02</b>	<b>1.72E-02</b>		<b>1.58E-02</b>	<b>1.58E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	3.00E-05	6.26E-03	1.66E-03	3.00E-05	1.69E-03
	Total	<b>3.00E-05</b>	<b>6.26E-03</b>	<b>1.66E-03</b>	<b>3.00E-05</b>	<b>1.69E-03</b>
<b>TOTAL</b>		<b>0.0172</b>	<b>0.0235</b>	<b>0.0017</b>	<b>0.0158</b>	<b>0.0175</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2026</b>				
	Off-Road	1.28E-02	1.28E-02		1.17E-02	1.17E-02
	Paving	0.00E+00	0.00E+00		0.00E+00	0.00E+00
	Total	<b>1.28E-02</b>	<b>1.28E-02</b>		<b>1.17E-02</b>	<b>1.17E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	2.00E-05	4.65E-03	1.24E-03	2.00E-05	1.26E-03
	Total	<b>2.00E-05</b>	<b>4.65E-03</b>	<b>1.24E-03</b>	<b>2.00E-05</b>	<b>1.26E-03</b>
<b>TOTAL</b>		<b>0.0128</b>	<b>0.0175</b>	<b>0.0012</b>	<b>0.0117</b>	<b>0.0130</b>

### Phase 2 Finishing/Landscaping

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2025</b>				
	Off-Road	1.24E-03	1.24E-03		1.14E-03	1.14E-03
	Total	<b>1.24E-03</b>	<b>1.24E-03</b>		<b>1.14E-03</b>	<b>1.14E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	0.00E+00	7.00E-04	1.90E-04	0.00E+00	1.90E-04
	Total	<b>0.00E+00</b>	<b>7.00E-04</b>	<b>1.90E-04</b>	<b>0.00E+00</b>	<b>1.90E-04</b>
<b>TOTAL</b>		<b>0.0012</b>	<b>0.0019</b>	<b>0.0002</b>	<b>0.0011</b>	<b>0.0013</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2026</b>				
	Off-Road	2.56E-03	2.56E-03		2.35E-03	2.35E-03
	Total	<b>2.56E-03</b>	<b>2.56E-03</b>		<b>2.35E-03</b>	<b>2.35E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	1.00E-05	1.45E-03	3.90E-04	1.00E-05	3.90E-04
	Total	<b>1.00E-05</b>	<b>1.45E-03</b>	<b>3.90E-04</b>	<b>1.00E-05</b>	<b>3.90E-04</b>
<b>TOTAL</b>		<b>0.0026</b>	<b>0.0040</b>	<b>0.0004</b>	<b>0.0024</b>	<b>0.0027</b>

**Phase 2 - Building Construction**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2025</b>				
	Off-Road	2.90E-03	2.90E-03		2.73E-03	2.73E-03
	Total	<b>2.90E-03</b>	<b>2.90E-03</b>		<b>2.73E-03</b>	<b>2.73E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	1.80E-04	5.89E-03	1.66E-03	1.80E-04	1.84E-03
	Worker	2.00E-04	0.0383	1.02E-02	1.80E-04	1.04E-02
	Total	<b>3.80E-04</b>	<b>0.0442</b>	<b>1.19E-02</b>	<b>3.60E-04</b>	<b>1.22E-02</b>
<b>TOTAL</b>		<b>0.0033</b>	<b>0.0471</b>	<b>0.0119</b>	<b>0.0031</b>	<b>0.0149</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2026</b>				
	Off-Road	6.89E-02	6.89E-02		6.48E-02	6.48E-02
	Total	<b>6.89E-02</b>	<b>6.89E-02</b>		<b>6.48E-02</b>	<b>6.48E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	4.35E-03	1.40E-01	3.95E-02	4.16E-03	4.36E-02
	Worker	4.44E-03	0.9092	2.42E-01	4.08E-03	2.46E-01
	Total	<b>8.79E-03</b>	<b>1.049</b>	<b>2.81E-01</b>	<b>8.24E-03</b>	<b>2.90E-01</b>
<b>TOTAL</b>		<b>0.0777</b>	<b>1.1179</b>	<b>0.2813</b>	<b>0.0730</b>	<b>0.3543</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2027</b>				
	Off-Road	3.98E-02	3.98E-02		3.75E-02	3.75E-02
	Total	<b>3.98E-02</b>	<b>3.98E-02</b>		<b>3.75E-02</b>	<b>3.75E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.51E-03	8.09E-02	2.28E-02	2.40E-03	2.52E-02
	Worker	2.42E-03	0.5259	1.40E-01	2.23E-03	1.42E-01
	Total	<b>4.93E-03</b>	<b>0.6068</b>	<b>1.63E-01</b>	<b>4.63E-03</b>	<b>1.67E-01</b>
<b>TOTAL</b>		<b>0.0447</b>	<b>0.6466</b>	<b>0.1627</b>	<b>0.0421</b>	<b>0.2049</b>

**Phase 2 - Architectural Coating**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2027</b>				
	Archit. Coating	0	0		0	0
	Off-Road	3.66E-03	3.66E-03		3.66E-03	3.66E-03
	Total	<b>3.66E-03</b>	<b>3.66E-03</b>		<b>3.66E-03</b>	<b>3.66E-03</b>

Offsite	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	4.60E-04	9.89E-02	2.63E-02	4.20E-04	2.67E-02
	Total	<b>4.60E-04</b>	<b>9.89E-02</b>	<b>2.63E-02</b>	<b>4.20E-04</b>	<b>2.67E-02</b>
<b>TOTAL</b>		<b>0.0041</b>	<b>0.1026</b>	<b>0.0263</b>	<b>0.0041</b>	<b>0.0304</b>

### Phase 3 - Site Preparation

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2026</b>					
	Fugitive Dust	0	1.98E-01	1.02E-01	0	1.02E-01
	Off-Road	2.55E-02	2.55E-02		2.35E-02	2.35E-02
	Total	<b>2.55E-02</b>	<b>2.23E-01</b>	<b>1.02E-01</b>	<b>2.35E-02</b>	<b>1.25E-01</b>
Offsite	Hauling	0	0	0	0	0
	Vendor	4.00E-05	1.14E-03	3.20E-04	3.00E-05	3.60E-04
	Worker	2.00E-05	4.30E-03	1.14E-03	2.00E-05	1.16E-03
	Total	<b>6.00E-05</b>	<b>5.44E-03</b>	<b>1.46E-03</b>	<b>5.00E-05</b>	<b>1.52E-03</b>
<b>TOTAL</b>		<b>0.0256</b>	<b>0.2284</b>	<b>0.1030</b>	<b>0.0236</b>	<b>0.1265</b>

### Phase 3 - Rough Grading

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2026</b>					
	Fugitive Dust	0	2.40E-01	6.11E-02	0	6.11E-02
	Off-Road	3.51E-02	3.51E-02		3.23E-02	3.23E-02
	Total	<b>3.51E-02</b>	<b>2.75E-01</b>	<b>6.11E-02</b>	<b>3.23E-02</b>	<b>9.34E-02</b>
Offsite	Hauling	0	0	0	0	0
	Vendor	9.00E-05	3.02E-03	8.50E-04	9.00E-05	9.40E-04
	Worker	3.00E-05	6.31E-03	1.68E-03	3.00E-05	1.71E-03
	Total	<b>1.20E-04</b>	<b>9.33E-03</b>	<b>2.53E-03</b>	<b>1.20E-04</b>	<b>2.65E-03</b>
<b>TOTAL</b>		<b>0.0352</b>	<b>0.2840</b>	<b>0.0636</b>	<b>0.0324</b>	<b>0.0961</b>



		2027	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	3.83E-01	1.40E-01	0	1.40E-01
	Off-Road		9.78E-02	9.78E-02		9.00E-02	9.00E-02
	Total		<b>9.78E-02</b>	<b>4.80E-01</b>	<b>1.40E-01</b>	<b>9.00E-02</b>	<b>2.30E-01</b>
Offsite							
	Hauling		0	0	0	0	0
	Vendor		2.60E-04	8.42E-03	2.38E-03	2.50E-04	2.63E-03
	Worker		8.00E-05	1.76E-02	4.68E-03	7.00E-05	4.75E-03
	Total		<b>3.40E-04</b>	<b>2.60E-02</b>	<b>7.06E-03</b>	<b>3.20E-04</b>	<b>7.38E-03</b>
<b>TOTAL</b>			<b>0.0981</b>	<b>0.5063</b>	<b>0.1468</b>	<b>0.0903</b>	<b>0.2371</b>

### Phase 3 Utility Trenching

		2027	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		2.62E-02	2.62E-02		2.41E-02	2.41E-02
	Total		<b>2.62E-02</b>	<b>2.62E-02</b>		<b>2.41E-02</b>	<b>2.41E-02</b>
Offsite							
	Hauling		0	0	0	0	0
	Vendor		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker		3.00E-05	6.71E-03	1.79E-03	3.00E-05	1.81E-03
	Total		<b>3.00E-05</b>	<b>6.71E-03</b>	<b>1.79E-03</b>	<b>3.00E-05</b>	<b>1.81E-03</b>
<b>TOTAL</b>			<b>0.0262</b>	<b>0.0329</b>	<b>0.0018</b>	<b>0.0241</b>	<b>0.0259</b>

### Phase 3 - Fine Grading

		2027	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	3.03E-01	1.10E-01	0	1.10E-01
	Off-Road		7.63E-02	7.63E-02		7.02E-02	7.02E-02
	Total		<b>7.63E-02</b>	<b>3.79E-01</b>	<b>1.10E-01</b>	<b>7.02E-02</b>	<b>1.80E-01</b>
Offsite							
	Hauling		0	0	0	0	0
	Vendor		2.00E-04	6.57E-03	1.86E-03	2.00E-04	2.05E-03
	Worker		6.00E-05	1.37E-02	3.65E-03	6.00E-05	3.71E-03
	Total		<b>2.60E-04</b>	<b>2.03E-02</b>	<b>5.51E-03</b>	<b>2.60E-04</b>	<b>5.76E-03</b>
<b>TOTAL</b>			<b>0.0766</b>	<b>0.3996</b>	<b>0.1150</b>	<b>0.0705</b>	<b>0.1855</b>

		2028	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Fugitive Dust		0	2.00E-01	5.29E-02	0	5.29E-02
	Off-Road		3.11E-02	3.11E-02		2.86E-02	2.86E-02
	Total		<b>3.11E-02</b>	<b>2.31E-01</b>	<b>5.29E-02</b>	<b>2.86E-02</b>	<b>8.15E-02</b>
Offsite							
	Hauling		0	0	0	0	0
	Vendor		8.00E-05	2.68E-03	7.60E-04	8.00E-05	8.40E-04
	Worker		2.00E-05	5.59E-03	1.49E-03	2.00E-05	1.51E-03
	Total		<b>1.00E-04</b>	<b>8.27E-03</b>	<b>2.25E-03</b>	<b>1.00E-04</b>	<b>2.35E-03</b>
<b>TOTAL</b>			<b>0.0312</b>	<b>0.2394</b>	<b>0.0552</b>	<b>0.0287</b>	<b>0.0839</b>

### Phase 3 - Paving

		2027	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		1.80E-02	1.80E-02		1.66E-02	1.66E-02
	Paving		0.00E+00	0.00E+00		0.00E+00	0.00E+00
	Total		<b>1.80E-02</b>	<b>1.80E-02</b>		<b>1.66E-02</b>	<b>1.66E-02</b>
Offsite							
	Hauling		0	0	0	0	0
	Vendor		0.00E+00	0	0	0.00E+00	0
	Worker		3.00E-05	6.56E-03	1.74E-03	3.00E-05	1.77E-03
	Total		<b>3.00E-05</b>	<b>6.56E-03</b>	<b>1.74E-03</b>	<b>3.00E-05</b>	<b>1.77E-03</b>
<b>TOTAL</b>			<b>0.0180</b>	<b>0.0246</b>	<b>0.0017</b>	<b>0.0166</b>	<b>0.0184</b>

		2028	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite							
	Off-Road		1.15E-02	1.15E-02		1.06E-02	1.06E-02
	Paving		0.00E+00	0.00E+00		0.00E+00	0.00E+00
	Total		<b>1.15E-02</b>	<b>1.15E-02</b>		<b>1.06E-02</b>	<b>1.06E-02</b>
Offsite							
	Hauling		0	0	0	0	0
	Vendor		0.00E+00	0	0	0.00E+00	0
	Worker		2.00E-05	4.19E-03	1.12E-03	2.00E-05	1.13E-03
	Total		<b>2.00E-05</b>	<b>4.19E-03</b>	<b>1.12E-03</b>	<b>2.00E-05</b>	<b>1.13E-03</b>
<b>TOTAL</b>			<b>0.0115</b>	<b>0.0157</b>	<b>0.0011</b>	<b>0.0106</b>	<b>0.0117</b>

**Phase 3 Finishing/Landscaping**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2027</b>				
	Off-Road	1.08E-03	1.08E-03		9.90E-04	9.90E-04
	Total	<b>1.08E-03</b>	<b>1.08E-03</b>		<b>9.90E-04</b>	<b>9.90E-04</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	0.00E+00	6.10E-04	1.60E-04	0.00E+00	1.60E-04
	Total	<b>0.00E+00</b>	<b>6.10E-04</b>	<b>1.60E-04</b>	<b>0.00E+00</b>	<b>1.60E-04</b>
<b>TOTAL</b>		<b>0.0011</b>	<b>0.0017</b>	<b>0.0002</b>	<b>0.0010</b>	<b>0.0012</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2028</b>				
	Off-Road	2.80E-03	2.80E-03		2.58E-03	2.58E-03
	Total	<b>2.80E-03</b>	<b>2.80E-03</b>		<b>2.58E-03</b>	<b>2.58E-03</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Worker	1.00E-05	1.59E-03	4.20E-04	1.00E-05	4.30E-04
	Total	<b>1.00E-05</b>	<b>1.59E-03</b>	<b>4.20E-04</b>	<b>1.00E-05</b>	<b>4.30E-04</b>
<b>TOTAL</b>		<b>0.0028</b>	<b>0.0044</b>	<b>0.0004</b>	<b>0.0026</b>	<b>0.0030</b>

**Phase 3 - Building Construction**

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2028</b>				
	Off-Road	5.38E-02	5.38E-02		5.06E-02	5.06E-02
	Total	<b>5.38E-02</b>	<b>5.38E-02</b>		<b>5.06E-02</b>	<b>5.06E-02</b>
Offsite						
	Hauling	0	0	0	0	0
	Vendor	2.70E-04	8.69E-03	2.45E-03	2.60E-04	2.71E-03
	Worker	2.20E-04	0.0508	1.35E-02	2.00E-04	1.37E-02
	Total	<b>4.90E-04</b>	<b>0.0595</b>	<b>1.60E-02</b>	<b>4.60E-04</b>	<b>1.64E-02</b>
<b>TOTAL</b>		<b>0.0543</b>	<b>0.1133</b>	<b>0.0160</b>	<b>0.0511</b>	<b>0.0670</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite		<b>2029</b>				
	Off-Road	6.89E-02	6.89E-02		6.48E-02	6.48E-02
	Total	<b>6.89E-02</b>	<b>6.89E-02</b>		<b>6.48E-02</b>	<b>6.48E-02</b>

Offsite	Hauling	0	0	0	0	0
	Vendor	3.40E-04	1.11E-02	3.14E-03	3.30E-04	3.47E-03
	Worker	2.60E-04	0.065	1.73E-02	2.40E-04	1.75E-02
	Total	<b>6.00E-04</b>	<b>0.0761</b>	<b>2.04E-02</b>	<b>5.70E-04</b>	<b>2.10E-02</b>
<b>TOTAL</b>		<b>0.0695</b>	<b>0.1450</b>	<b>0.0204</b>	<b>0.0654</b>	<b>0.0858</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2030</b>					
	Off-Road	8.07E-03	8.07E-03		8.07E-03	8.07E-03
	Total	<b>8.07E-03</b>	<b>8.07E-03</b>		<b>8.07E-03</b>	<b>8.07E-03</b>
Offsite	Hauling	0	0	0	0	0
	Vendor	1.40E-04	4.64E-03	1.31E-03	1.40E-04	1.45E-03
	Worker	1.00E-04	0.0271	7.22E-03	9.00E-05	7.32E-03
	Total	<b>2.40E-04</b>	<b>0.0318</b>	<b>8.53E-03</b>	<b>2.30E-04</b>	<b>8.77E-03</b>
<b>TOTAL</b>		<b>0.0083</b>	<b>0.0399</b>	<b>0.0085</b>	<b>0.0083</b>	<b>0.0168</b>

### Phase 3 - Architectural Coating

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2029</b>					
	Archit. Coating	0.00E+00	0.00E+00		0.00E+00	0.00E+00
	Off-Road	8.50E-04	8.50E-04		8.50E-04	8.50E-04
	Total	<b>8.50E-04</b>	<b>8.50E-04</b>		<b>8.50E-04</b>	<b>8.50E-04</b>
Offsite	Hauling	0	0	0	0	0
	Vendor	0	0	0	0	0
	Worker	1.00E-05	1.68E-03	4.50E-04	1.00E-05	4.50E-04
	Total	<b>1.00E-05</b>	<b>1.68E-03</b>	<b>4.50E-04</b>	<b>1.00E-05</b>	<b>4.50E-04</b>
<b>TOTAL</b>		<b>0.0009</b>	<b>0.0025</b>	<b>0.0005</b>	<b>0.0009</b>	<b>0.0013</b>

		Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Onsite	<b>2030</b>					
	Archit. Coating	0	0		0	0
	Off-Road	1.11E-03	1.11E-03		1.11E-03	1.11E-03
	Total	<b>1.11E-03</b>	<b>1.11E-03</b>		<b>1.11E-03</b>	<b>1.11E-03</b>
Offsite	Hauling	0	0	0	0	0
	Vendor	0.00E+00	0	0	0.00E+00	0
	Worker	2.00E-05	5.54E-03	1.47E-03	2.00E-05	1.49E-03
	Total	<b>2.00E-05</b>	<b>5.54E-03</b>	<b>1.47E-03</b>	<b>2.00E-05</b>	<b>1.49E-03</b>
<b>TOTAL</b>		<b>0.0011</b>	<b>0.0067</b>	<b>0.0015</b>	<b>0.0011</b>	<b>0.0026</b>

# Appendix B. Air Dispersion Model Output



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor  
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)  
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 29.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 4.9 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: BRE265a.err

\*\*File for Summary of Results: BRE265a.sum





## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

L0000740	0	0.42766E-02	421601.5	3753282.4	133.6	4.15	11.63	1.93	YES	HRDOW
L0000741	0	0.42766E-02	421598.0	3753257.7	132.8	4.15	11.63	1.93	YES	HRDOW



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

L0000652	0	0.48272E-02	421986.2	3754041.2	151.8	4.15	13.02	1.93	YES	HRDOW
L0000653	0	0.48272E-02	421958.4	3754044.5	152.8	4.15	13.02	1.93	YES	HRDOW



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

L0000692	0	0.48272E-02	420874.0	3754008.4	145.6	4.15	13.02	1.93	YES	HRDOW
L0000693	0	0.48272E-02	420847.1	3754000.7	145.3	4.15	13.02	1.93	YES	HRDOW



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

L0000779	0	0.34576E-02	421977.1	3752760.3	123.9	4.15	9.30	1.93	YES	HRDOW
L0000780	0	0.34576E-02	421963.5	3752774.9	124.0	4.15	9.30	1.93	YES	HRDOW

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

```

*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:20:16
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 6
  
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### \*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000781	0	0.34576E-02	421949.9	3752789.6	124.0	4.15	9.30	1.93	YES	HRDOW
L0000782	0	0.34576E-02	421936.3	3752804.3	124.1	4.15	9.30	1.93	YES	HRDOW
L0000783	0	0.34576E-02	421922.8	3752819.0	124.1	4.15	9.30	1.93	YES	HRDOW
L0000784	0	0.34576E-02	421909.2	3752833.6	124.2	4.15	9.30	1.93	YES	HRDOW
L0000785	0	0.34576E-02	421895.6	3752848.3	124.2	4.15	9.30	1.93	YES	HRDOW
L0000786	0	0.34576E-02	421882.0	3752863.0	124.3	4.15	9.30	1.93	YES	HRDOW
L0000787	0	0.34576E-02	421868.4	3752877.7	124.3	4.15	9.30	1.93	YES	HRDOW
L0000788	0	0.34576E-02	421854.8	3752892.3	124.4	4.15	9.30	1.93	YES	HRDOW
L0000789	0	0.34576E-02	421844.1	3752909.1	124.3	4.15	9.30	1.93	YES	HRDOW
L0000790	0	0.34576E-02	421834.4	3752926.6	124.1	4.15	9.30	1.93	YES	HRDOW
L0000791	0	0.34576E-02	421824.6	3752944.0	124.0	4.15	9.30	1.93	YES	HRDOW
L0000792	0	0.34576E-02	421816.4	3752962.2	123.9	4.15	9.30	1.93	YES	HRDOW
L0000793	0	0.34576E-02	421810.0	3752981.1	123.9	4.15	9.30	1.93	YES	HRDOW
L0000794	0	0.34576E-02	421803.6	3753000.1	123.9	4.15	9.30	1.93	YES	HRDOW
L0000795	0	0.34576E-02	421797.2	3753019.0	123.8	4.15	9.30	1.93	YES	HRDOW
L0000796	0	0.34576E-02	421792.8	3753038.5	123.9	4.15	9.30	1.93	YES	HRDOW
L0000797	0	0.34576E-02	421789.8	3753058.2	124.0	4.15	9.30	1.93	YES	HRDOW
L0000798	0	0.34576E-02	421786.9	3753078.0	124.2	4.15	9.30	1.93	YES	HRDOW
L0000799	0	0.34576E-02	421785.5	3753098.0	124.5	4.15	9.30	1.93	YES	HRDOW
L0000800	0	0.34576E-02	421784.4	3753117.9	124.9	4.15	9.30	1.93	YES	HRDOW
L0000801	0	0.34576E-02	421783.3	3753137.9	125.3	4.15	9.30	1.93	YES	HRDOW
L0000802	0	0.34576E-02	421782.1	3753157.9	125.7	4.15	9.30	1.93	YES	HRDOW
L0000803	0	0.34576E-02	421781.0	3753177.8	126.1	4.15	9.30	1.93	YES	HRDOW
L0000804	0	0.34576E-02	421779.9	3753197.8	126.4	4.15	9.30	1.93	YES	HRDOW
L0000805	0	0.34576E-02	421778.8	3753217.8	126.8	4.15	9.30	1.93	YES	HRDOW
L0000806	0	0.34576E-02	421777.7	3753237.7	127.2	4.15	9.30	1.93	YES	HRDOW
L0000807	0	0.34576E-02	421776.6	3753257.7	127.6	4.15	9.30	1.93	YES	HRDOW
L0000808	0	0.34576E-02	421775.5	3753277.7	128.0	4.15	9.30	1.93	YES	HRDOW
L0000809	0	0.34576E-02	421774.4	3753297.6	128.4	4.15	9.30	1.93	YES	HRDOW
L0000810	0	0.34576E-02	421770.6	3753317.1	129.1	4.15	9.30	1.93	YES	HRDOW
L0000811	0	0.34576E-02	421764.3	3753336.1	130.3	4.15	9.30	1.93	YES	HRDOW
L0000812	0	0.34576E-02	421755.2	3753353.8	131.7	4.15	9.30	1.93	YES	HRDOW
L0000813	0	0.34576E-02	421745.6	3753371.4	133.0	4.15	9.30	1.93	YES	HRDOW
L0000814	0	0.34576E-02	421732.3	3753386.1	134.2	4.15	9.30	1.93	YES	HRDOW
L0000815	0	0.34576E-02	421717.6	3753399.6	135.2	4.15	9.30	1.93	YES	HRDOW
L0000816	0	0.34576E-02	421701.5	3753411.2	136.1	4.15	9.30	1.93	YES	HRDOW
L0000817	0	0.34576E-02	421683.6	3753420.0	137.0	4.15	9.30	1.93	YES	HRDOW
L0000818	0	0.34576E-02	421664.8	3753426.1	137.8	4.15	9.30	1.93	YES	HRDOW



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

L0000819	0	0.34576E-02	421645.0	3753429.4	138.5	4.15	9.30	1.93	YES	HRDOW
L0000820	0	0.34576E-02	421625.3	3753432.6	139.1	4.15	9.30	1.93	YES	HRDOW



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

L0000859	0	0.34576E-02	420845.7	3753430.9	134.6	4.15	9.30	1.93	YES	HRDOW
L0000860	0	0.34576E-02	420825.7	3753430.7	134.5	4.15	9.30	1.93	YES	HRDOW

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265  
 \*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

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\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000861	0	0.34576E-02	420805.7	3753430.5	134.3	4.15	9.30	1.93	YES	HRDOW
L0000862	0	0.34576E-02	420785.7	3753430.3	134.2	4.15	9.30	1.93	YES	HRDOW
L0000863	0	0.34576E-02	420765.7	3753430.2	134.1	4.15	9.30	1.93	YES	HRDOW
L0000864	0	0.34576E-02	420745.7	3753430.0	133.9	4.15	9.30	1.93	YES	HRDOW
L0000865	0	0.34576E-02	420725.7	3753429.8	133.8	4.15	9.30	1.93	YES	HRDOW
L0000866	0	0.34576E-02	420705.7	3753429.6	133.6	4.15	9.30	1.93	YES	HRDOW

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265  
 \*\*\* MODELOPTs:    NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

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\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE	
			X (METERS)	Y (METERS)						SCALAR	VARY BY
PHASE1	0	0.36292E-05	421688.1	3753497.1	135.7	4.15	32	1.93	YES	HRDOW	
PHASE2	0	0.25300E-05	420938.2	3754232.9	159.8	4.15	5	1.93	YES	HRDOW	
PHASE3	0	0.24952E-05	421670.9	3754038.8	159.2	4.15	43	1.93	YES	HRDOW	

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265

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\*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

### \*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs																
-----	-----																
YR2023	PHASE1	,	PHASE2	,													
YR2024	PHASE1	,	PHASE2	,	PHASE3	,											
YR2025	PHASE1	,	PHASE2	,													
HAULROUT	L0000702	,	L0000703	,	L0000704	,	L0000705	,	L0000706	,	L0000707	,	L0000708	,	L0000709	,	
	L0000710	,	L0000711	,	L0000712	,	L0000713	,	L0000714	,	L0000715	,	L0000716	,	L0000717	,	
	L0000718	,	L0000719	,	L0000720	,	L0000721	,	L0000722	,	L0000723	,	L0000724	,	L0000725	,	
	L0000726	,	L0000727	,	L0000728	,	L0000729	,	L0000730	,	L0000731	,	L0000732	,	L0000733	,	
	L0000734	,	L0000735	,	L0000736	,	L0000737	,	L0000738	,	L0000739	,	L0000740	,	L0000741	,	
	L0000742	,	L0000743	,	L0000744	,	L0000745	,	L0000746	,	L0000747	,	L0000748	,	L0000621	,	
	L0000622	,	L0000623	,	L0000624	,	L0000625	,	L0000626	,	L0000627	,	L0000628	,	L0000629	,	
	L0000630	,	L0000631	,	L0000632	,	L0000633	,	L0000634	,	L0000635	,	L0000636	,	L0000637	,	
	L0000638	,	L0000639	,	L0000640	,	L0000641	,	L0000642	,	L0000643	,	L0000644	,	L0000645	,	
	L0000646	,	L0000647	,	L0000648	,	L0000649	,	L0000650	,	L0000651	,	L0000652	,	L0000653	,	
	L0000654	,	L0000655	,	L0000656	,	L0000657	,	L0000658	,	L0000659	,	L0000660	,	L0000661	,	
	L0000662	,	L0000663	,	L0000664	,	L0000665	,	L0000666	,	L0000667	,	L0000668	,	L0000669	,	
	L0000670	,	L0000671	,	L0000672	,	L0000673	,	L0000674	,	L0000675	,	L0000676	,	L0000677	,	
	L0000678	,	L0000679	,	L0000680	,	L0000681	,	L0000682	,	L0000683	,	L0000684	,	L0000685	,	
	L0000686	,	L0000687	,	L0000688	,	L0000689	,	L0000690	,	L0000691	,	L0000692	,	L0000693	,	
	L0000694	,	L0000695	,	L0000696	,	L0000697	,	L0000698	,	L0000699	,	L0000700	,	L0000701	,	
	L0000749	,	L0000750	,	L0000751	,	L0000752	,	L0000753	,	L0000754	,	L0000755	,	L0000756	,	

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265  
 \*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

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\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs															
	L0000757	,	L0000758	,	L0000759	,	L0000760	,	L0000761	,	L0000762	,	L0000763	,	L0000764	,
	L0000765	,	L0000766	,	L0000767	,	L0000768	,	L0000769	,	L0000770	,	L0000771	,	L0000772	,
	L0000773	,	L0000774	,	L0000775	,	L0000776	,	L0000777	,	L0000778	,	L0000779	,	L0000780	,
	L0000781	,	L0000782	,	L0000783	,	L0000784	,	L0000785	,	L0000786	,	L0000787	,	L0000788	,
	L0000789	,	L0000790	,	L0000791	,	L0000792	,	L0000793	,	L0000794	,	L0000795	,	L0000796	,
	L0000797	,	L0000798	,	L0000799	,	L0000800	,	L0000801	,	L0000802	,	L0000803	,	L0000804	,
	L0000805	,	L0000806	,	L0000807	,	L0000808	,	L0000809	,	L0000810	,	L0000811	,	L0000812	,
	L0000813	,	L0000814	,	L0000815	,	L0000816	,	L0000817	,	L0000818	,	L0000819	,	L0000820	,
	L0000821	,	L0000822	,	L0000823	,	L0000824	,	L0000825	,	L0000826	,	L0000827	,	L0000828	,
	L0000829	,	L0000830	,	L0000831	,	L0000832	,	L0000833	,	L0000834	,	L0000835	,	L0000836	,
	L0000837	,	L0000838	,	L0000839	,	L0000840	,	L0000841	,	L0000842	,	L0000843	,	L0000844	,
	L0000845	,	L0000846	,	L0000847	,	L0000848	,	L0000849	,	L0000850	,	L0000851	,	L0000852	,
	L0000853	,	L0000854	,	L0000855	,	L0000856	,	L0000857	,	L0000858	,	L0000859	,	L0000860	,
	L0000861	,	L0000862	,	L0000863	,	L0000864	,	L0000865	,	L0000866	,				
ALLPHASE	PHASE1	,	PHASE2	,	PHASE3	,										
YR2026	PHASE2	,	PHASE3	,												
YR2027	PHASE2	,	PHASE3	,												
YR2028	PHASE3	,														
YR2030	PHASE3	,														
YR2029	PHASE3	,														

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265  
 \*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

\*\*\*                    02/08/22  
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\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
L0000706	3186989.	PHASE1	, PHASE2	, PHASE3	, L0000702	, L0000703	, L0000704	, L0000705	,
	,								
	L0000707	, L0000708	, L0000709	, L0000710	, L0000711	, L0000712	, L0000713	, L0000714	,
	L0000715	, L0000716	, L0000717	, L0000718	, L0000719	, L0000720	, L0000721	, L0000722	,
	L0000723	, L0000724	, L0000725	, L0000726	, L0000727	, L0000728	, L0000729	, L0000730	,
	L0000731	, L0000732	, L0000733	, L0000734	, L0000735	, L0000736	, L0000737	, L0000738	,
	L0000739	, L0000740	, L0000741	, L0000742	, L0000743	, L0000744	, L0000745	, L0000746	,
	L0000747	, L0000748	, L0000621	, L0000622	, L0000623	, L0000624	, L0000625	, L0000626	,
	L0000627	, L0000628	, L0000629	, L0000630	, L0000631	, L0000632	, L0000633	, L0000634	,
	L0000635	, L0000636	, L0000637	, L0000638	, L0000639	, L0000640	, L0000641	, L0000642	,
	L0000643	, L0000644	, L0000645	, L0000646	, L0000647	, L0000648	, L0000649	, L0000650	,
	L0000651	, L0000652	, L0000653	, L0000654	, L0000655	, L0000656	, L0000657	, L0000658	,
	L0000659	, L0000660	, L0000661	, L0000662	, L0000663	, L0000664	, L0000665	, L0000666	,
	L0000667	, L0000668	, L0000669	, L0000670	, L0000671	, L0000672	, L0000673	, L0000674	,
	L0000675	, L0000676	, L0000677	, L0000678	, L0000679	, L0000680	, L0000681	, L0000682	,
	L0000683	, L0000684	, L0000685	, L0000686	, L0000687	, L0000688	, L0000689	, L0000690	,
	L0000691	, L0000692	, L0000693	, L0000694	, L0000695	, L0000696	, L0000697	, L0000698	,
	L0000699	, L0000700	, L0000701	, L0000749	, L0000750	, L0000751	, L0000752	, L0000753	,
	L0000754	, L0000755	, L0000756	, L0000757	, L0000758	, L0000759	, L0000760	, L0000761	,
	L0000762	, L0000763	, L0000764	, L0000765	, L0000766	, L0000767	, L0000768	, L0000769	,



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

L0000770 , L0000771 , L0000772 , L0000773 , L0000774 , L0000775 , L0000776 , L0000777 ,

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265  
 \*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

\*\*\*                    02/08/22  
 \*\*\*                    10:20:16  
 PAGE    13

\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID -----	URBAN POP -----	SOURCE IDs -----
L0000778	,	L0000779 , L0000780 , L0000781 , L0000782 , L0000783 , L0000784 , L0000785 ,
L0000786	,	L0000787 , L0000788 , L0000789 , L0000790 , L0000791 , L0000792 , L0000793 ,
L0000794	,	L0000795 , L0000796 , L0000797 , L0000798 , L0000799 , L0000800 , L0000801 ,
L0000802	,	L0000803 , L0000804 , L0000805 , L0000806 , L0000807 , L0000808 , L0000809 ,
L0000810	,	L0000811 , L0000812 , L0000813 , L0000814 , L0000815 , L0000816 , L0000817 ,
L0000818	,	L0000819 , L0000820 , L0000821 , L0000822 , L0000823 , L0000824 , L0000825 ,
L0000826	,	L0000827 , L0000828 , L0000829 , L0000830 , L0000831 , L0000832 , L0000833 ,
L0000834	,	L0000835 , L0000836 , L0000837 , L0000838 , L0000839 , L0000840 , L0000841 ,
L0000842	,	L0000843 , L0000844 , L0000845 , L0000846 , L0000847 , L0000848 , L0000849 ,
L0000850	,	L0000851 , L0000852 , L0000853 , L0000854 , L0000855 , L0000856 , L0000857 ,
L0000858	,	L0000859 , L0000860 , L0000861 , L0000862 , L0000863 , L0000864 , L0000865 ,
L0000866	,	

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:20:16
                                                                    ***   PAGE 14
  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = PHASE1 - PHASE3 ; SOURCE TYPE = AREAPOLY :

HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:20:16
                                                                    ***   PAGE 17
  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000702 - L0000866 ; SOURCE TYPE = VOLUME :

HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:20:16
                                                                    ***   PAGE 287

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

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Surface file:  ..\KFUL_V9_ADJU\KFUL_v9.SFC           Met Version: 16216
Profile file:  ..\KFUL_V9_ADJU\KFUL_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3166           Upper air station no.: 3190
                          Name: UNKNOWN           Name: UNKNOWN
                          Year: 2012             Year: 2012

```

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
12	01	01	1	01	-4.8	0.098	-9.000	-9.000	-999.	74.	18.0	0.26	2.61	1.00	0.96	322.	10.1	283.8	2.0			
12	01	01	1	02	-1.9	0.072	-9.000	-9.000	-999.	47.	18.0	0.26	2.61	1.00	0.52	13.	10.1	283.1	2.0			
12	01	01	1	03	-3.1	0.083	-9.000	-9.000	-999.	57.	16.3	0.26	2.61	1.00	0.75	73.	10.1	282.0	2.0			
12	01	01	1	04	-4.3	0.094	-9.000	-9.000	-999.	69.	17.3	0.26	2.61	1.00	0.91	98.	10.1	281.4	2.0			
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-999999.0	0.26	2.61	1.00	0.00	0.	10.1	280.9	2.0			
12	01	01	1	06	-2.1	0.074	-9.000	-9.000	-999.	48.	17.6	0.26	2.61	1.00	0.55	80.	10.1	280.4	2.0			
12	01	01	1	07	-2.8	0.080	-9.000	-9.000	-999.	54.	16.3	0.26	2.61	1.00	0.69	201.	10.1	280.4	2.0			
12	01	01	1	08	-1.5	0.066	-9.000	-9.000	-999.	41.	17.0	0.26	2.61	0.54	0.52	72.	10.1	280.9	2.0			
12	01	01	1	09	37.4	-9.000	-9.000	-9.000	38.	-999.	-999999.0	0.26	2.61	0.31	0.00	0.	10.1	285.9	2.0			
12	01	01	1	10	109.1	0.151	0.713	0.008	121.	141.	-2.9	0.26	2.61	0.24	0.79	268.	10.1	289.9	2.0			
12	01	01	1	11	160.5	0.148	1.143	0.005	338.	136.	-1.8	0.26	2.61	0.21	0.70	273.	10.1	294.2	2.0			
12	01	01	1	12	186.9	0.156	1.483	0.005	634.	148.	-1.8	0.26	2.61	0.20	0.74	230.	10.1	297.5	2.0			
12	01	01	1	13	187.4	0.210	1.777	0.005	1088.	231.	-4.5	0.26	2.61	0.20	1.20	227.	10.1	300.4	2.0			
12	01	01	1	14	160.3	0.235	1.833	0.005	1395.	274.	-7.4	0.26	2.61	0.21	1.47	233.	10.1	300.9	2.0			
12	01	01	1	15	109.1	0.197	1.662	0.005	1527.	210.	-6.3	0.26	2.61	0.25	1.20	233.	10.1	302.0	2.0			
12	01	01	1	16	33.3	0.243	1.125	0.005	1548.	288.	-39.2	0.26	2.61	0.33	1.91	229.	10.1	298.1	2.0			
12	01	01	1	17	-9.1	0.141	-9.000	-9.000	-999.	132.	28.3	0.26	2.61	0.60	1.37	212.	10.1	294.2	2.0			
12	01	01	1	18	-4.3	0.094	-9.000	-9.000	-999.	69.	17.5	0.26	2.61	1.00	0.91	190.	10.1	292.0	2.0			
12	01	01	1	19	-2.8	0.079	-9.000	-9.000	-999.	54.	16.3	0.26	2.61	1.00	0.70	302.	10.1	289.2	2.0			
12	01	01	1	20	-4.0	0.091	-9.000	-9.000	-999.	65.	17.0	0.26	2.61	1.00	0.87	338.	10.1	288.1	2.0			
12	01	01	1	21	-6.3	0.113	-9.000	-9.000	-999.	91.	20.5	0.26	2.61	1.00	1.11	304.	10.1	287.0	2.0			
12	01	01	1	22	-3.1	0.082	-9.000	-9.000	-999.	57.	16.3	0.26	2.61	1.00	0.75	76.	10.1	285.4	2.0			
12	01	01	1	23	-2.4	0.076	-9.000	-9.000	-999.	50.	16.7	0.26	2.61	1.00	0.62	306.	10.1	284.9	2.0			
12	01	01	1	24	-3.6	0.087	-9.000	-9.000	-999.	62.	16.6	0.26	2.61	1.00	0.82	318.	10.1	283.8	2.0			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB	TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.1	1	322.	0.96	283.8	99.0	-99.00	-99.00	

F indicates top of profile (=1) or below (=0)

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   10:20:16
*** MODELOPTs:   NonDEFAULT   CONC   FLAT and   ELEV   URBAN   ADJ_U*   ***   PAGE 311
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2023   ***
    INCLUDING SOURCE(S):   PHASE1   ,   PHASE2   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
422241.06	3752501.02	0.81235	422261.06	3752501.02	0.83228
422281.06	3752501.02	0.84794	422301.06	3752501.02	0.85437
422321.06	3752501.02	0.85654	422341.06	3752501.02	0.85388
422361.06	3752501.02	0.84622	422381.06	3752501.02	0.83221
422401.06	3752501.02	0.81194	422421.06	3752501.02	0.78654
422441.06	3752501.02	0.74811	422661.06	3752501.02	0.15952
422681.06	3752501.02	0.14870	422701.06	3752501.02	0.13892
422721.06	3752501.02	0.12992	422741.06	3752501.02	0.12202
422761.06	3752501.02	0.11492	422701.06	3752561.02	0.14801
422721.06	3752561.02	0.13716	422741.06	3752561.02	0.12829
422761.06	3752561.02	0.12060	422781.06	3752561.02	0.11388
422701.06	3752581.02	0.15041	422721.06	3752581.02	0.13907
422781.06	3752581.02	0.11519	422701.06	3752601.02	0.15341
422721.06	3752601.02	0.14130	422741.06	3752601.02	0.13197
422761.06	3752601.02	0.12365	422781.06	3752601.02	0.11628
422721.06	3752621.02	0.14323	422761.06	3752621.02	0.12489
422781.06	3752621.02	0.11730	422721.06	3752641.02	0.14515
422761.06	3752641.02	0.12615	422781.06	3752641.02	0.11842
422721.06	3752661.02	0.14709	422761.06	3752661.02	0.12744
422781.06	3752661.02	0.11962	422721.06	3752681.02	0.14942
422741.06	3752681.02	0.13781	422741.06	3752701.02	0.13913
422741.06	3752721.02	0.14046	422290.39	3753829.08	0.24218 Resident MEIR

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   10:20:16
*** MODELPTS:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 335
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2024   ***
    INCLUDING SOURCE(S):   PHASE1   , PHASE2   , PHASE3   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
422241.06	3752501.02	0.83452	422261.06	3752501.02	0.85459
422281.06	3752501.02	0.87041	422301.06	3752501.02	0.87696
422321.06	3752501.02	0.87926	422341.06	3752501.02	0.87673
422361.06	3752501.02	0.86920	422381.06	3752501.02	0.85530
422401.06	3752501.02	0.83516	422421.06	3752501.02	0.80993
422441.06	3752501.02	0.77166	422661.06	3752501.02	0.18432
422681.06	3752501.02	0.17348	422701.06	3752501.02	0.16368
422721.06	3752501.02	0.15467	422741.06	3752501.02	0.14675
422761.06	3752501.02	0.13963	422701.06	3752561.02	0.17490
422721.06	3752561.02	0.16402	422741.06	3752561.02	0.15509
422761.06	3752561.02	0.14733	422781.06	3752561.02	0.14052
422701.06	3752581.02	0.17806	422721.06	3752581.02	0.16667
422781.06	3752581.02	0.14254	422701.06	3752601.02	0.18182
422721.06	3752601.02	0.16966	422741.06	3752601.02	0.16025
422761.06	3752601.02	0.15184	422781.06	3752601.02	0.14437
422721.06	3752621.02	0.17239	422761.06	3752621.02	0.15385
422781.06	3752621.02	0.14615	422721.06	3752641.02	0.17513
422761.06	3752641.02	0.15591	422781.06	3752641.02	0.14805
422721.06	3752661.02	0.17792	422761.06	3752661.02	0.15802
422781.06	3752661.02	0.15006	422721.06	3752681.02	0.18113
422741.06	3752681.02	0.16941	422741.06	3752701.02	0.17166
422741.06	3752721.02	0.17395	422290.39	3753829.08	2.68189 Resident MEIR

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA           ***           02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265              ***           10:20:16
*** MODELPTS:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*           ***           PAGE 359
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2025 ***
    INCLUDING SOURCE(S):   PHASE1           , PHASE2           ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
422241.06	3752501.02	0.81235	422261.06	3752501.02	0.83228
422281.06	3752501.02	0.84794	422301.06	3752501.02	0.85437
422321.06	3752501.02	0.85654	422341.06	3752501.02	0.85388
422361.06	3752501.02	0.84622	422381.06	3752501.02	0.83221
422401.06	3752501.02	0.81194	422421.06	3752501.02	0.78654
422441.06	3752501.02	0.74811	422661.06	3752501.02	0.15952
422681.06	3752501.02	0.14870	422701.06	3752501.02	0.13892
422721.06	3752501.02	0.12992	422741.06	3752501.02	0.12202
422761.06	3752501.02	0.11492	422701.06	3752561.02	0.14801
422721.06	3752561.02	0.13716	422741.06	3752561.02	0.12829
422761.06	3752561.02	0.12060	422781.06	3752561.02	0.11388
422701.06	3752581.02	0.15041	422721.06	3752581.02	0.13907
422781.06	3752581.02	0.11519	422701.06	3752601.02	0.15341
422721.06	3752601.02	0.14130	422741.06	3752601.02	0.13197
422761.06	3752601.02	0.12365	422781.06	3752601.02	0.11628
422721.06	3752621.02	0.14323	422761.06	3752621.02	0.12489
422781.06	3752621.02	0.11730	422721.06	3752641.02	0.14515
422761.06	3752641.02	0.12615	422781.06	3752641.02	0.11842
422721.06	3752661.02	0.14709	422761.06	3752661.02	0.12744
422781.06	3752661.02	0.11962	422721.06	3752681.02	0.14942
422741.06	3752681.02	0.13781	422741.06	3752701.02	0.13913
422741.06	3752721.02	0.14046	422290.39	3753829.08	0.24218

Resident MEIR



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265         ***   10:20:16
***                                     ***                                     ***   PAGE 383

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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAULROUT ***
      INCLUDING SOURCE(S):  L0000702 , L0000703 , L0000704 , L0000705 , L0000706 ,
L0000707 , L0000708 , L0000709 , L0000710 , L0000711 , L0000712 , L0000713 , L0000714 ,
L0000715 , L0000716 , L0000717 , L0000718 , L0000719 , L0000720 , L0000721 , L0000722 ,
L0000723 , L0000724 , L0000725 , L0000726 , L0000727 , L0000728 , L0000729 , . . .

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

** CONC OF OTHER			IN MICROGRAMS/M**3			**		
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC			
422241.06	3752501.02	0.30692	422261.06	3752501.02	0.25066			
422281.06	3752501.02	0.20893	422301.06	3752501.02	0.17771			
422321.06	3752501.02	0.15317	422341.06	3752501.02	0.13356			
422361.06	3752501.02	0.11768	422381.06	3752501.02	0.10469			
422401.06	3752501.02	0.09383	422421.06	3752501.02	0.08445			
422441.06	3752501.02	0.07599	422661.06	3752501.02	0.03572			
422681.06	3752501.02	0.03456	422701.06	3752501.02	0.03342			
422721.06	3752501.02	0.03227	422741.06	3752501.02	0.03121			
422761.06	3752501.02	0.03020	422701.06	3752561.02	0.03400			
422721.06	3752561.02	0.03276	422741.06	3752561.02	0.03171			
422761.06	3752561.02	0.03075	422781.06	3752561.02	0.02986			
422701.06	3752581.02	0.03427	422721.06	3752581.02	0.03300			
422781.06	3752581.02	0.03009	422701.06	3752601.02	0.03471			
422721.06	3752601.02	0.03335	422741.06	3752601.02	0.03230			
422761.06	3752601.02	0.03127	422781.06	3752601.02	0.03031			
422721.06	3752621.02	0.03370	422761.06	3752621.02	0.03154			
422781.06	3752621.02	0.03055	422721.06	3752641.02	0.03407			
422761.06	3752641.02	0.03184	422781.06	3752641.02	0.03084			
422721.06	3752661.02	0.03448	422761.06	3752661.02	0.03217			
422781.06	3752661.02	0.03116	422721.06	3752681.02	0.03496			
422741.06	3752681.02	0.03360	422741.06	3752701.02	0.03394			
422741.06	3752721.02	0.03428	422290.39	3753829.08	0.20937	Resident MEIR		

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265         ***   10:20:16
*** MODELPTS:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 407
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALLPHASE ***
INCLUDING SOURCE(S):   PHASE1   , PHASE2   , PHASE3   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
422241.06	3752501.02	0.83452	422261.06	3752501.02	0.85459
422281.06	3752501.02	0.87041	422301.06	3752501.02	0.87696
422321.06	3752501.02	0.87926	422341.06	3752501.02	0.87673
422361.06	3752501.02	0.86920	422381.06	3752501.02	0.85530
422401.06	3752501.02	0.83516	422421.06	3752501.02	0.80993
422441.06	3752501.02	0.77166	422661.06	3752501.02	0.18432
422681.06	3752501.02	0.17348	422701.06	3752501.02	0.16368
422721.06	3752501.02	0.15467	422741.06	3752501.02	0.14675
422761.06	3752501.02	0.13963	422701.06	3752561.02	0.17490
422721.06	3752561.02	0.16402	422741.06	3752561.02	0.15509
422761.06	3752561.02	0.14733	422781.06	3752561.02	0.14052
422701.06	3752581.02	0.17806	422721.06	3752581.02	0.16667
422781.06	3752581.02	0.14254	422701.06	3752601.02	0.18182
422721.06	3752601.02	0.16966	422741.06	3752601.02	0.16025
422761.06	3752601.02	0.15184	422781.06	3752601.02	0.14437
422721.06	3752621.02	0.17239	422761.06	3752621.02	0.15385
422781.06	3752621.02	0.14615	422721.06	3752641.02	0.17513
422761.06	3752641.02	0.15591	422781.06	3752641.02	0.14805
422721.06	3752661.02	0.17792	422761.06	3752661.02	0.15802
422781.06	3752661.02	0.15006	422721.06	3752681.02	0.18113
422741.06	3752681.02	0.16941	422741.06	3752701.02	0.17166
422741.06	3752721.02	0.17395	422290.39	3753829.08	2.68189 Resident MEIR

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265         ***   10:20:16
                                     *** PAGE 431

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*** MODELOPTs:   NonDEFAULT   CONC   FLAT and   ELEV   URBAN   ADJ_U*

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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2026   ***
    INCLUDING SOURCE(S):   PHASE2   ,   PHASE3   ,

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
422241.06	3752501.02	0.04039	422261.06	3752501.02	0.04050
422281.06	3752501.02	0.04062	422301.06	3752501.02	0.04069
422321.06	3752501.02	0.04077	422341.06	3752501.02	0.04084
422361.06	3752501.02	0.04090	422381.06	3752501.02	0.04096
422401.06	3752501.02	0.04103	422421.06	3752501.02	0.04114
422441.06	3752501.02	0.04127	422661.06	3752501.02	0.04184
422681.06	3752501.02	0.04171	422701.06	3752501.02	0.04158
422721.06	3752501.02	0.04148	422741.06	3752501.02	0.04136
422761.06	3752501.02	0.04124	422701.06	3752561.02	0.04448
422721.06	3752561.02	0.04434	422741.06	3752561.02	0.04417
422761.06	3752561.02	0.04398	422781.06	3752561.02	0.04379
422701.06	3752581.02	0.04549	422721.06	3752581.02	0.04534
422781.06	3752581.02	0.04473	422701.06	3752601.02	0.04650
422721.06	3752601.02	0.04635	422741.06	3752601.02	0.04614
422761.06	3752601.02	0.04593	422781.06	3752601.02	0.04571
422721.06	3752621.02	0.04740	422761.06	3752621.02	0.04695
422781.06	3752621.02	0.04671	422721.06	3752641.02	0.04848
422761.06	3752641.02	0.04799	422781.06	3752641.02	0.04774
422721.06	3752661.02	0.04959	422761.06	3752661.02	0.04907
422781.06	3752661.02	0.04879	422721.06	3752681.02	0.05072
422741.06	3752681.02	0.05048	422741.06	3752701.02	0.05166
422741.06	3752721.02	0.05289	422290.39	3753829.08	2.50122

Resident MEIR



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   10:20:16
*** MODELOPTs:   NonDEFAULT   CONC   FLAT and   ELEV   URBAN   ADJ_U*   ***   PAGE 479
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2028   ***
    INCLUDING SOURCE(S):   PHASE3   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
422241.06	3752501.02	0.02217	422261.06	3752501.02	0.02231
422281.06	3752501.02	0.02247	422301.06	3752501.02	0.02259
422321.06	3752501.02	0.02272	422341.06	3752501.02	0.02285
422361.06	3752501.02	0.02298	422381.06	3752501.02	0.02310
422401.06	3752501.02	0.02323	422421.06	3752501.02	0.02338
422441.06	3752501.02	0.02356	422661.06	3752501.02	0.02481
422681.06	3752501.02	0.02478	422701.06	3752501.02	0.02476
422721.06	3752501.02	0.02475	422741.06	3752501.02	0.02473
422761.06	3752501.02	0.02471	422701.06	3752561.02	0.02689
422721.06	3752561.02	0.02686	422741.06	3752561.02	0.02680
422761.06	3752561.02	0.02673	422781.06	3752561.02	0.02664
422701.06	3752581.02	0.02765	422721.06	3752581.02	0.02761
422781.06	3752581.02	0.02735	422701.06	3752601.02	0.02841
422721.06	3752601.02	0.02837	422741.06	3752601.02	0.02828
422761.06	3752601.02	0.02819	422781.06	3752601.02	0.02809
422721.06	3752621.02	0.02916	422761.06	3752621.02	0.02896
422781.06	3752621.02	0.02885	422721.06	3752641.02	0.02998
422761.06	3752641.02	0.02976	422781.06	3752641.02	0.02963
422721.06	3752661.02	0.03084	422761.06	3752661.02	0.03059
422781.06	3752661.02	0.03044	422721.06	3752681.02	0.03172
422741.06	3752681.02	0.03161	422741.06	3752701.02	0.03253
422741.06	3752721.02	0.03349	422290.39	3753829.08	2.43970

Resident MEIR

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***           02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265         ***           10:20:16
*** MODELPTS:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***           PAGE 503
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2030 ***
INCLUDING SOURCE(S):   PHASE3
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
422241.06	3752501.02	0.02217	422261.06	3752501.02	0.02231
422281.06	3752501.02	0.02247	422301.06	3752501.02	0.02259
422321.06	3752501.02	0.02272	422341.06	3752501.02	0.02285
422361.06	3752501.02	0.02298	422381.06	3752501.02	0.02310
422401.06	3752501.02	0.02323	422421.06	3752501.02	0.02338
422441.06	3752501.02	0.02356	422661.06	3752501.02	0.02481
422681.06	3752501.02	0.02478	422701.06	3752501.02	0.02476
422721.06	3752501.02	0.02475	422741.06	3752501.02	0.02473
422761.06	3752501.02	0.02471	422701.06	3752561.02	0.02689
422721.06	3752561.02	0.02686	422741.06	3752561.02	0.02680
422761.06	3752561.02	0.02673	422781.06	3752561.02	0.02664
422701.06	3752581.02	0.02765	422721.06	3752581.02	0.02761
422781.06	3752581.02	0.02735	422701.06	3752601.02	0.02841
422721.06	3752601.02	0.02837	422741.06	3752601.02	0.02828
422761.06	3752601.02	0.02819	422781.06	3752601.02	0.02809
422721.06	3752621.02	0.02916	422761.06	3752621.02	0.02896
422781.06	3752621.02	0.02885	422721.06	3752641.02	0.02998
422761.06	3752641.02	0.02976	422781.06	3752641.02	0.02963
422721.06	3752661.02	0.03084	422761.06	3752661.02	0.03059
422781.06	3752661.02	0.03044	422721.06	3752681.02	0.03172
422741.06	3752681.02	0.03161	422741.06	3752701.02	0.03253
422741.06	3752721.02	0.03349	422290.39	3753829.08	2.43970 Resident MEIR

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   10:20:16
*** MODELOPTs:   NonDEFAULT   CONC   FLAT and   ELEV   URBAN   ADJ_U*   ***   PAGE 527
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2029   ***
INCLUDING SOURCE(S):   PHASE3   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
422241.06	3752501.02	0.02217	422261.06	3752501.02	0.02231
422281.06	3752501.02	0.02247	422301.06	3752501.02	0.02259
422321.06	3752501.02	0.02272	422341.06	3752501.02	0.02285
422361.06	3752501.02	0.02298	422381.06	3752501.02	0.02310
422401.06	3752501.02	0.02323	422421.06	3752501.02	0.02338
422441.06	3752501.02	0.02356	422661.06	3752501.02	0.02481
422681.06	3752501.02	0.02478	422701.06	3752501.02	0.02476
422721.06	3752501.02	0.02475	422741.06	3752501.02	0.02473
422761.06	3752501.02	0.02471	422701.06	3752561.02	0.02689
422721.06	3752561.02	0.02686	422741.06	3752561.02	0.02680
422761.06	3752561.02	0.02673	422781.06	3752561.02	0.02664
422701.06	3752581.02	0.02765	422721.06	3752581.02	0.02761
422781.06	3752581.02	0.02735	422701.06	3752601.02	0.02841
422721.06	3752601.02	0.02837	422741.06	3752601.02	0.02828
422761.06	3752601.02	0.02819	422781.06	3752601.02	0.02809
422721.06	3752621.02	0.02916	422761.06	3752621.02	0.02896
422781.06	3752621.02	0.02885	422721.06	3752641.02	0.02998
422761.06	3752641.02	0.02976	422781.06	3752641.02	0.02963
422721.06	3752661.02	0.03084	422761.06	3752661.02	0.03059
422781.06	3752661.02	0.03044	422721.06	3752681.02	0.03172
422741.06	3752681.02	0.03161	422741.06	3752701.02	0.03253
422741.06	3752721.02	0.03349	422290.39	3753829.08	2.43970

Resident MEIR

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:20:16
*** MODELPTS:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 551
  
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2023 ***
    INCLUDING SOURCE(S):   PHASE1   , PHASE2   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)		X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
422241.06	3752501.02	9.17176c (12011724)		422261.06	3752501.02	9.37714c (12011724)
422281.06	3752501.02	9.52372c (12011724)		422301.06	3752501.02	9.58811c (12011724)
422321.06	3752501.02	9.59924c (12011724)	Resident MEIR	422341.06	3752501.02	9.54834c (12011724)
422361.06	3752501.02	9.48123c (12011724)		422381.06	3752501.02	9.41557c (14011524)
422401.06	3752501.02	9.31174c (14011524)		422421.06	3752501.02	9.20856c (12120424)
422441.06	3752501.02	9.20224c (12120424)		422661.06	3752501.02	3.19030c (12112024)
422681.06	3752501.02	3.00625c (12112024)		422701.06	3752501.02	2.84105c (12112024)
422721.06	3752501.02	2.69232c (12112024)		422741.06	3752501.02	2.55987c (12112024)
422761.06	3752501.02	2.44028c (12112024)		422701.06	3752561.02	2.64199c (12112024)
422721.06	3752561.02	2.50500c (12112024)		422741.06	3752561.02	2.39118c (12112024)
422761.06	3752561.02	2.29150c (12112024)		422781.06	3752561.02	2.20300c (12112024)
422701.06	3752581.02	2.56111c (12112024)		422721.06	3752581.02	2.43435c (12112024)
422781.06	3752581.02	2.15928c (12112024)		422701.06	3752601.02	2.49237c (12112024)
422721.06	3752601.02	2.37383c (12112024)		422741.06	3752601.02	2.28119c (12112024)
422761.06	3752601.02	2.19555c (12112024)		422781.06	3752601.02	2.11739c (12112024)
422721.06	3752621.02	2.31547c (12112024)		422761.06	3752621.02	2.15149c (12112024)
422781.06	3752621.02	2.07908c (12112024)		422721.06	3752641.02	2.26287c (12112024)
422761.06	3752641.02	2.11200c (12112024)		422781.06	3752641.02	2.04551c (12112024)
422721.06	3752661.02	2.21551c (12112024)		422761.06	3752661.02	2.07630c (12112024)
422781.06	3752661.02	2.01489c (12112024)		422721.06	3752681.02	2.17479c (12112024)
422741.06	3752681.02	2.10390c (12112024)		422741.06	3752701.02	2.06814c (12112024)
422741.06	3752721.02	2.03522c (12112024)		422290.39	3753829.08	1.51489 (12021724)



## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA           ***           02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265                 ***           10:20:16
*** MODELPTS:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*           ***           PAGE 575
  
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2024 ***
    INCLUDING SOURCE(S):   PHASE1           , PHASE2           , PHASE3           ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)		X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
422241.06	3752501.02	9.72792c (12011724)		422261.06	3752501.02	9.95698c (12011724)
422281.06	3752501.02	10.12719c (12011724)		422301.06	3752501.02	10.21418c (12011724)
422321.06	3752501.02	10.24743c (12011724)	Resident MEIR	422341.06	3752501.02	10.21799c (12011724)
422361.06	3752501.02	10.17155c (12011724)		422381.06	3752501.02	10.06799c (12011724)
422401.06	3752501.02	9.90571c (12011724)		422421.06	3752501.02	9.78699c (14011524)
422441.06	3752501.02	9.64175c (14011524)		422661.06	3752501.02	3.35694c (12112024)
422681.06	3752501.02	3.18245c (12112024)		422701.06	3752501.02	3.02721c (12112024)
422721.06	3752501.02	2.88895c (12112024)		422741.06	3752501.02	2.76730c (12112024)
422761.06	3752501.02	2.65885c (12112024)		422701.06	3752561.02	2.86891c (12112024)
422721.06	3752561.02	2.74464c (12112024)		422741.06	3752561.02	2.64368c (12112024)
422761.06	3752561.02	2.55712c (12112024)		422781.06	3752561.02	2.48910b (12020824)
422701.06	3752581.02	2.80387c (12112024)		422721.06	3752581.02	2.69064c (12112024)
422781.06	3752581.02	2.47850b (12020824)		422701.06	3752601.02	2.75201c (12112024)
422721.06	3752601.02	2.64849b (12020824)		422741.06	3752601.02	2.58554b (12020824)
422761.06	3752601.02	2.52663b (12020824)		422781.06	3752601.02	2.47141b (12020824)
422721.06	3752621.02	2.63749b (12020824)		422761.06	3752621.02	2.52028b (12020824)
422781.06	3752621.02	2.46615b (12020824)		422721.06	3752641.02	2.62914b (12020824)
422761.06	3752641.02	2.51463b (12020824)		422781.06	3752641.02	2.46097b (12020824)
422721.06	3752661.02	2.62155b (12020824)		422761.06	3752661.02	2.50906b (12020824)
422781.06	3752661.02	2.45514b (12020824)		422721.06	3752681.02	2.61380b (12020824)
422741.06	3752681.02	2.55816b (12020824)		422741.06	3752701.02	2.55118b (12020824)
422741.06	3752721.02	2.54357b (12020824)		422290.39	3753829.08	8.20134c (13020524)

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265         ***   10:20:16
*** MODELPTS:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 599
  
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2025 ***
    INCLUDING SOURCE(S):   PHASE1   , PHASE2   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)		X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
422241.06	3752501.02	9.17176c (12011724)		422261.06	3752501.02	9.37714c (12011724)
422281.06	3752501.02	9.52372c (12011724)		422301.06	3752501.02	9.58811c (12011724)
422321.06	3752501.02	9.59924c (12011724)	Resident MEIR	22341.06	3752501.02	9.54834c (12011724)
422361.06	3752501.02	9.48123c (12011724)		422381.06	3752501.02	9.41557c (14011524)
422401.06	3752501.02	9.31174c (14011524)		422421.06	3752501.02	9.20856c (12120424)
422441.06	3752501.02	9.20224c (12120424)		422661.06	3752501.02	3.19030c (12112024)
422681.06	3752501.02	3.00625c (12112024)		422701.06	3752501.02	2.84105c (12112024)
422721.06	3752501.02	2.69232c (12112024)		422741.06	3752501.02	2.55987c (12112024)
422761.06	3752501.02	2.44028c (12112024)		422701.06	3752561.02	2.64199c (12112024)
422721.06	3752561.02	2.50500c (12112024)		422741.06	3752561.02	2.39118c (12112024)
422761.06	3752561.02	2.29150c (12112024)		422781.06	3752561.02	2.20300c (12112024)
422701.06	3752581.02	2.56111c (12112024)		422721.06	3752581.02	2.43435c (12112024)
422781.06	3752581.02	2.15928c (12112024)		422701.06	3752601.02	2.49237c (12112024)
422721.06	3752601.02	2.37383c (12112024)		422741.06	3752601.02	2.28119c (12112024)
422761.06	3752601.02	2.19555c (12112024)		422781.06	3752601.02	2.11739c (12112024)
422721.06	3752621.02	2.31547c (12112024)		422761.06	3752621.02	2.15149c (12112024)
422781.06	3752621.02	2.07908c (12112024)		422721.06	3752641.02	2.26287c (12112024)
422761.06	3752641.02	2.11200c (12112024)		422781.06	3752641.02	2.04551c (12112024)
422721.06	3752661.02	2.21551c (12112024)		422761.06	3752661.02	2.07630c (12112024)
422781.06	3752661.02	2.01489c (12112024)		422721.06	3752681.02	2.17479c (12112024)
422741.06	3752681.02	2.10390c (12112024)		422741.06	3752701.02	2.06814c (12112024)
422741.06	3752721.02	2.03522c (12112024)		422290.39	3753829.08	1.51489 (12021724)

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265         ***   10:20:16
*** MODELPTS:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 647
  
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\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALLPHASE \*\*\*  
 INCLUDING SOURCE(S): PHASE1 , PHASE2 , PHASE3 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)		X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
422241.06	3752501.02	9.72792c (12011724)		422261.06	3752501.02	9.95698c (12011724)
422281.06	3752501.02	10.12719c (12011724)		422301.06	3752501.02	10.21418c (12011724)
422321.06	3752501.02	10.24743c (12011724)	Resident MEIR	422341.06	3752501.02	10.21799c (12011724)
422361.06	3752501.02	10.17155c (12011724)		422381.06	3752501.02	10.06799c (12011724)
422401.06	3752501.02	9.90571c (12011724)		422421.06	3752501.02	9.78699c (14011524)
422441.06	3752501.02	9.64175c (14011524)		422661.06	3752501.02	3.35694c (12112024)
422681.06	3752501.02	3.18245c (12112024)		422701.06	3752501.02	3.02721c (12112024)
422721.06	3752501.02	2.88895c (12112024)		422741.06	3752501.02	2.76730c (12112024)
422761.06	3752501.02	2.65885c (12112024)		422701.06	3752561.02	2.86891c (12112024)
422721.06	3752561.02	2.74464c (12112024)		422741.06	3752561.02	2.64368c (12112024)
422761.06	3752561.02	2.55712c (12112024)		422781.06	3752561.02	2.48910b (12020824)
422701.06	3752581.02	2.80387c (12112024)		422721.06	3752581.02	2.69064c (12112024)
422781.06	3752581.02	2.47850b (12020824)		422701.06	3752601.02	2.75201c (12112024)
422721.06	3752601.02	2.64849b (12020824)		422741.06	3752601.02	2.58554b (12020824)
422761.06	3752601.02	2.52663b (12020824)		422781.06	3752601.02	2.47141b (12020824)
422721.06	3752621.02	2.63749b (12020824)		422761.06	3752621.02	2.52028b (12020824)
422781.06	3752621.02	2.46615b (12020824)		422721.06	3752641.02	2.62914b (12020824)
422761.06	3752641.02	2.51463b (12020824)		422781.06	3752641.02	2.46097b (12020824)
422721.06	3752661.02	2.62155b (12020824)		422761.06	3752661.02	2.50906b (12020824)
422781.06	3752661.02	2.45514b (12020824)		422721.06	3752681.02	2.61380b (12020824)
422741.06	3752681.02	2.55816b (12020824)		422741.06	3752701.02	2.55118b (12020824)
422741.06	3752721.02	2.54357b (12020824)		422290.39	3753829.08	8.20134c (13020524)

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***           02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265         ***           10:20:16
*** MODELPTS:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***           PAGE 695
  
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2027 ***
    INCLUDING SOURCE(S):   PHASE2           , PHASE3           ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)		X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
422241.06	3752501.02	1.17122c (16121324)		422261.06	3752501.02	1.17580c (16121324)
422281.06	3752501.02	1.17918c (16121324)		422301.06	3752501.02	1.18044c (16121324)
422321.06	3752501.02	1.18480c (12011724)	Resident MEIR	422341.06	3752501.02	1.19441c (12011724)
422361.06	3752501.02	1.20298c (12011724)		422381.06	3752501.02	1.21034c (12011724)
422401.06	3752501.02	1.21693c (12011724)		422421.06	3752501.02	1.22352c (12011724)
422441.06	3752501.02	1.22956c (12011724)		422661.06	3752501.02	1.27710c (14011524)
422681.06	3752501.02	1.26976c (14011524)		422701.06	3752501.02	1.26149c (14011524)
422721.06	3752501.02	1.25264c (14011524)		422741.06	3752501.02	1.24235c (14011524)
422761.06	3752501.02	1.23087c (14011524)		422701.06	3752561.02	1.32021c (14011524)
422721.06	3752561.02	1.30824c (14011524)		422741.06	3752561.02	1.29368c (14011524)
422761.06	3752561.02	1.27759c (14011524)		422781.06	3752561.02	1.25986c (14011524)
422701.06	3752581.02	1.33928c (14011524)		422721.06	3752581.02	1.32607c (14011524)
422781.06	3752581.02	1.27343c (14011524)		422701.06	3752601.02	1.35704c (14011524)
422721.06	3752601.02	1.34291c (14011524)		422741.06	3752601.02	1.32544c (14011524)
422761.06	3752601.02	1.30676c (14011524)		422781.06	3752601.02	1.30446b (12020824)
422721.06	3752621.02	1.35982c (14011524)		422761.06	3752621.02	1.32818b (12020824)
422781.06	3752621.02	1.34342b (12020824)		422721.06	3752641.02	1.37642c (14011524)
422761.06	3752641.02	1.36846b (12020824)		422781.06	3752641.02	1.38289b (12020824)
422721.06	3752661.02	1.39265c (14011524)		422761.06	3752661.02	1.40937b (12020824)
422781.06	3752661.02	1.42271b (12020824)		422721.06	3752681.02	1.42045b (12020824)
422741.06	3752681.02	1.43693b (12020824)		422741.06	3752701.02	1.48021b (12020824)
422741.06	3752721.02	1.52429b (12020824)		422290.39	3753829.08	7.20500c (13020524)

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* Construction HRA      \*\*\*      02/08/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* Brea 265      \*\*\*      10:20:16  
 \*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*      \*\*\*      PAGE 769

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS \*\*\*

\*\* CONC OF OTHER      IN MICROGRAMS/M\*\*3      \*\*

GROUP ID	AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
	MEIR Location					
ALLPHASE	1ST HIGHEST VALUE IS	2.68189	AT (	422290.39, 3753829.08,	155.42, 425.72,	0.00) DC
	2ND HIGHEST VALUE IS	1.45653	AT (	421760.24, 3753323.17,	129.50, 391.99,	0.00) DC
	3RD HIGHEST VALUE IS	1.44184	AT (	421688.50, 3754120.28,	162.48, 410.79,	0.00) DC
	4TH HIGHEST VALUE IS	1.43533	AT (	421728.50, 3754100.28,	161.99, 410.79,	0.00) DC
	5TH HIGHEST VALUE IS	1.43475	AT (	421668.50, 3754180.28,	162.51, 410.79,	0.00) DC
	6TH HIGHEST VALUE IS	1.40945	AT (	421748.50, 3754100.28,	161.87, 410.79,	0.00) DC
	7TH HIGHEST VALUE IS	1.36446	AT (	421760.24, 3753303.17,	128.45, 391.99,	0.00) DC
	8TH HIGHEST VALUE IS	1.35437	AT (	421668.50, 3754200.28,	162.73, 410.79,	0.00) DC
	9TH HIGHEST VALUE IS	1.35155	AT (	421688.50, 3754140.28,	162.63, 410.79,	0.00) DC
	10TH HIGHEST VALUE IS	1.33102	AT (	421868.50, 3754100.28,	160.65, 413.40,	0.00) DC
YR2026	1ST HIGHEST VALUE IS	2.50122	AT (	422290.39, 3753829.08,	155.42, 425.72,	0.00) DC
	2ND HIGHEST VALUE IS	1.40565	AT (	421688.50, 3754120.28,	162.48, 410.79,	0.00) DC
	3RD HIGHEST VALUE IS	1.40326	AT (	421668.50, 3754180.28,	162.51, 410.79,	0.00) DC
	4TH HIGHEST VALUE IS	1.39413	AT (	421728.50, 3754100.28,	161.99, 410.79,	0.00) DC
	5TH HIGHEST VALUE IS	1.36619	AT (	421748.50, 3754100.28,	161.87, 410.79,	0.00) DC
	6TH HIGHEST VALUE IS	1.32384	AT (	421668.50, 3754200.28,	162.73, 410.79,	0.00) DC
	7TH HIGHEST VALUE IS	1.31661	AT (	421688.50, 3754140.28,	162.63, 410.79,	0.00) DC
	8TH HIGHEST VALUE IS	1.28733	AT (	421167.01, 3754273.15,	167.37, 391.99,	0.00) DC
	9TH HIGHEST VALUE IS	1.27182	AT (	421868.50, 3754100.28,	160.65, 413.40,	0.00) DC
	10TH HIGHEST VALUE IS	1.26149	AT (	421147.01, 3754273.15,	167.30, 391.99,	0.00) DC
YR2027	1ST HIGHEST VALUE IS	2.50122	AT (	422290.39, 3753829.08,	155.42, 425.72,	0.00) DC
	2ND HIGHEST VALUE IS	1.40565	AT (	421688.50, 3754120.28,	162.48, 410.79,	0.00) DC
	3RD HIGHEST VALUE IS	1.40326	AT (	421668.50, 3754180.28,	162.51, 410.79,	0.00) DC
	4TH HIGHEST VALUE IS	1.39413	AT (	421728.50, 3754100.28,	161.99, 410.79,	0.00) DC
	5TH HIGHEST VALUE IS	1.36619	AT (	421748.50, 3754100.28,	161.87, 410.79,	0.00) DC
	6TH HIGHEST VALUE IS	1.32384	AT (	421668.50, 3754200.28,	162.73, 410.79,	0.00) DC
	7TH HIGHEST VALUE IS	1.31661	AT (	421688.50, 3754140.28,	162.63, 410.79,	0.00) DC
	8TH HIGHEST VALUE IS	1.28733	AT (	421167.01, 3754273.15,	167.37, 391.99,	0.00) DC
	9TH HIGHEST VALUE IS	1.27182	AT (	421868.50, 3754100.28,	160.65, 413.40,	0.00) DC
	10TH HIGHEST VALUE IS	1.26149	AT (	421147.01, 3754273.15,	167.30, 391.99,	0.00) DC
YR2028	1ST HIGHEST VALUE IS	2.43970	AT (	422290.39, 3753829.08,	155.42, 425.72,	0.00) DC
	2ND HIGHEST VALUE IS	1.01152	AT (	421948.50, 3754100.28,	159.95, 420.67,	0.00) DC
	3RD HIGHEST VALUE IS	1.01132	AT (	421928.50, 3754100.28,	160.23, 420.67,	0.00) DC
	4TH HIGHEST VALUE IS	1.00710	AT (	421968.50, 3754100.28,	159.51, 425.30,	0.00) DC

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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5TH HIGHEST VALUE IS      1.00648 AT ( 421908.50, 3754100.28, 160.46, 420.67, 0.00) DC
6TH HIGHEST VALUE IS      0.99723 AT ( 421888.50, 3754100.28, 160.61, 420.18, 0.00) DC
7TH HIGHEST VALUE IS      0.98447 AT ( 421868.50, 3754100.28, 160.65, 413.40, 0.00) DC
8TH HIGHEST VALUE IS      0.84062 AT ( 421968.50, 3754120.28, 160.00, 425.30, 0.00) DC
9TH HIGHEST VALUE IS      0.83731 AT ( 421948.50, 3754120.28, 160.40, 420.67, 0.00) DC
10TH HIGHEST VALUE IS     0.83119 AT ( 421928.50, 3754120.28, 160.73, 420.67, 0.00) DC

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***
*** AERMET - VERSION 16216 ***   *** Brea 265           ***

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02/08/22
10:20:16
PAGE 770

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*** MODELOPTs:   NonDEFAULT  CONC  FLAT and  ELEV  URBAN  ADJ_U*

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\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS \*\*\*

\*\* CONC OF OTHER        IN MICROGRAMS/M\*\*3                    \*\*

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
YR2030	1ST HIGHEST VALUE IS	2.43970 AT ( 422290.39, 3753829.08, 155.42, 425.72, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.01152 AT ( 421948.50, 3754100.28, 159.95, 420.67, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.01132 AT ( 421928.50, 3754100.28, 160.23, 420.67, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.00710 AT ( 421968.50, 3754100.28, 159.51, 425.30, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.00648 AT ( 421908.50, 3754100.28, 160.46, 420.67, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.99723 AT ( 421888.50, 3754100.28, 160.61, 420.18, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.98447 AT ( 421868.50, 3754100.28, 160.65, 413.40, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.84062 AT ( 421968.50, 3754120.28, 160.00, 425.30, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.83731 AT ( 421948.50, 3754120.28, 160.40, 420.67, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.83119 AT ( 421928.50, 3754120.28, 160.73, 420.67, 0.00)	DC	
YR2029	1ST HIGHEST VALUE IS	2.43970 AT ( 422290.39, 3753829.08, 155.42, 425.72, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.01152 AT ( 421948.50, 3754100.28, 159.95, 420.67, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.01132 AT ( 421928.50, 3754100.28, 160.23, 420.67, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.00710 AT ( 421968.50, 3754100.28, 159.51, 425.30, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.00648 AT ( 421908.50, 3754100.28, 160.46, 420.67, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.99723 AT ( 421888.50, 3754100.28, 160.61, 420.18, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.98447 AT ( 421868.50, 3754100.28, 160.65, 413.40, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.84062 AT ( 421968.50, 3754120.28, 160.00, 425.30, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.83731 AT ( 421948.50, 3754120.28, 160.40, 420.67, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.83119 AT ( 421928.50, 3754120.28, 160.73, 420.67, 0.00)	DC	

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*** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR

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## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA           ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265             ***   10:20:16
                                     ***                           ***   PAGE 771
  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

GROUP ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
YR2023	HIGH	1ST HIGH VALUE IS	9.59924c	ON 12011724: AT (	422321.06, 3752501.02, 124.19, 266.65, 0.00)	DC	
YR2024	HIGH	1ST HIGH VALUE IS	10.24743c	ON 12011724: AT (	422321.06, 3752501.02, 124.19, 266.65, 0.00)	DC	
YR2025	HIGH	1ST HIGH VALUE IS	9.59924c	ON 12011724: AT (	422321.06, 3752501.02, 124.19, 266.65, 0.00)	DC	
HAULROUT	HIGH	1ST HIGH VALUE IS	5.60349c	ON 14120524: AT (	421720.24, 3753363.17, 132.29, 391.99, 0.00)	DC	
ALLPHASE	HIGH	1ST HIGH VALUE IS	10.24743c	ON 12011724: AT (	422321.06, 3752501.02, 124.19, 266.65, 0.00)	DC	
YR2026	HIGH	1ST HIGH VALUE IS	7.83384c	ON 14120524: AT (	420931.39, 3753715.80, 141.63, 391.99, 0.00)	DC	
YR2027	HIGH	1ST HIGH VALUE IS	7.83384c	ON 14120524: AT (	420931.39, 3753715.80, 141.63, 391.99, 0.00)	DC	
YR2028	HIGH	1ST HIGH VALUE IS	7.16186c	ON 13020524: AT (	422290.39, 3753829.08, 155.42, 425.72, 0.00)	DC	
YR2030	HIGH	1ST HIGH VALUE IS	7.16186c	ON 13020524: AT (	422290.39, 3753829.08, 155.42, 425.72, 0.00)	DC	
YR2029	HIGH	1ST HIGH VALUE IS	7.16186c	ON 13020524: AT (	422290.39, 3753829.08, 155.42, 425.72, 0.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

## Model Output - Residential Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* Construction HRA  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\* Brea 265  
\*\*\* MODELOPTs: NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

\*\*\* 02/08/22  
\*\*\* 10:20:16  
PAGE 772

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 2285 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 1588 Calm Hours Identified  
  
A Total of 697 Missing Hours Identified ( 1.59 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 5627 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 5627 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*



## Model Output - School Receptors Unit Emission Rates (1 g/s)

```
*** AERMOD - VERSION 21112 ***   *** Construction HRA           ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265                 ***   10:02:13
                                     ***                           ***   PAGE 1
```

```
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*
```

```
-----
***           MODEL SETUP OPTIONS SUMMARY           ***
-----
```

\*\*Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 249 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 3186989.0 ; Urban Roughness Length = 1.000 m

\*\*Model Allows User-Specified Options:

1. Stack-tip Downwash.
2. Allow FLAT/ELEV Terrain Option by Source,  
with 0 FLAT and 249 ELEV Source(s).
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
CCVR\_Sub - Meteorological data includes CCVR substitutions  
TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: OTHER

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR  
and Calculates PERIOD Averages

\*\*This Run Includes: 249 Source(s); 10 Source Group(s); and 93 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 246 VOLUME source(s)  
and: 3 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

## Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 29.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 4.0 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Brea265\_School.err

\*\*File for Summary of Results: Brea265\_School.sum



## Model Output - School Receptors Unit Emission Rates (1 g/s)

L0000413	0	0.42766E-02	421601.5	3753282.4	133.6	4.15	11.63	1.93	YES	HRDOW
L0000414	0	0.42766E-02	421598.0	3753257.7	132.8	4.15	11.63	1.93	YES	HRDOW



## Model Output - School Receptors Unit Emission Rates (1 g/s)

L0000453	0	0.48272E-02	421986.2	3754041.2	151.8	4.15	13.02	1.93	YES	HRDOW
L0000454	0	0.48272E-02	421958.4	3754044.5	152.8	4.15	13.02	1.93	YES	HRDOW

## Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265

\*\*\*                    02/08/22  
 \*\*\*                    10:02:13  
 PAGE                4

\*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000455	0	0.48272E-02	421930.5	3754047.8	153.9	4.15	13.02	1.93	YES	HRDOW
L0000456	0	0.48272E-02	421902.7	3754051.0	155.0	4.15	13.02	1.93	YES	HRDOW
L0000457	0	0.48272E-02	421874.9	3754054.3	156.0	4.15	13.02	1.93	YES	HRDOW
L0000458	0	0.48272E-02	421847.1	3754057.6	157.1	4.15	13.02	1.93	YES	HRDOW
L0000459	0	0.48272E-02	421819.3	3754060.9	158.2	4.15	13.02	1.93	YES	HRDOW
L0000460	0	0.48272E-02	421791.5	3754064.1	159.2	4.15	13.02	1.93	YES	HRDOW
L0000461	0	0.48272E-02	421763.5	3754064.8	159.2	4.15	13.02	1.93	YES	HRDOW
L0000462	0	0.48272E-02	421735.5	3754065.1	158.9	4.15	13.02	1.93	YES	HRDOW
L0000463	0	0.48272E-02	421707.5	3754065.3	158.7	4.15	13.02	1.93	YES	HRDOW
L0000464	0	0.48272E-02	421679.5	3754065.5	158.4	4.15	13.02	1.93	YES	HRDOW
L0000465	0	0.48272E-02	421651.5	3754065.8	158.1	4.15	13.02	1.93	YES	HRDOW
L0000466	0	0.48272E-02	421623.5	3754066.0	157.8	4.15	13.02	1.93	YES	HRDOW
L0000467	0	0.48272E-02	421595.5	3754066.2	157.6	4.15	13.02	1.93	YES	HRDOW
L0000468	0	0.48272E-02	421567.5	3754066.4	157.3	4.15	13.02	1.93	YES	HRDOW
L0000469	0	0.48272E-02	421539.5	3754066.7	157.0	4.15	13.02	1.93	YES	HRDOW
L0000470	0	0.48272E-02	421511.5	3754066.9	156.8	4.15	13.02	1.93	YES	HRDOW
L0000471	0	0.48272E-02	421483.5	3754067.1	156.5	4.15	13.02	1.93	YES	HRDOW
L0000472	0	0.48272E-02	421455.6	3754066.6	156.0	4.15	13.02	1.93	YES	HRDOW
L0000473	0	0.48272E-02	421427.6	3754066.2	155.6	4.15	13.02	1.93	YES	HRDOW
L0000474	0	0.48272E-02	421399.6	3754065.7	155.1	4.15	13.02	1.93	YES	HRDOW
L0000475	0	0.48272E-02	421371.6	3754065.3	154.7	4.15	13.02	1.93	YES	HRDOW
L0000476	0	0.48272E-02	421343.6	3754064.8	154.2	4.15	13.02	1.93	YES	HRDOW
L0000477	0	0.48272E-02	421315.6	3754064.4	153.7	4.15	13.02	1.93	YES	HRDOW
L0000478	0	0.48272E-02	421287.6	3754063.9	153.3	4.15	13.02	1.93	YES	HRDOW
L0000479	0	0.48272E-02	421259.6	3754063.5	152.8	4.15	13.02	1.93	YES	HRDOW
L0000480	0	0.48272E-02	421231.6	3754063.0	152.4	4.15	13.02	1.93	YES	HRDOW
L0000481	0	0.48272E-02	421203.6	3754062.4	151.9	4.15	13.02	1.93	YES	HRDOW
L0000482	0	0.48272E-02	421175.6	3754061.5	151.4	4.15	13.02	1.93	YES	HRDOW
L0000483	0	0.48272E-02	421147.6	3754060.5	150.9	4.15	13.02	1.93	YES	HRDOW
L0000484	0	0.48272E-02	421119.6	3754059.6	150.4	4.15	13.02	1.93	YES	HRDOW
L0000485	0	0.48272E-02	421091.7	3754058.6	149.9	4.15	13.02	1.93	YES	HRDOW
L0000486	0	0.48272E-02	421063.7	3754057.6	149.4	4.15	13.02	1.93	YES	HRDOW
L0000487	0	0.48272E-02	421036.5	3754050.8	148.8	4.15	13.02	1.93	YES	HRDOW
L0000488	0	0.48272E-02	421009.4	3754044.0	148.2	4.15	13.02	1.93	YES	HRDOW
L0000489	0	0.48272E-02	420982.2	3754037.1	147.6	4.15	13.02	1.93	YES	HRDOW
L0000490	0	0.48272E-02	420955.1	3754030.3	146.9	4.15	13.02	1.93	YES	HRDOW
L0000491	0	0.48272E-02	420927.9	3754023.5	146.3	4.15	13.02	1.93	YES	HRDOW
L0000492	0	0.48272E-02	420900.9	3754016.0	145.9	4.15	13.02	1.93	YES	HRDOW

## Model Output - School Receptors Unit Emission Rates (1 g/s)

L0000493	0	0.48272E-02	420874.0	3754008.4	145.6	4.15	13.02	1.93	YES	HRDOW
L0000494	0	0.48272E-02	420847.1	3754000.7	145.3	4.15	13.02	1.93	YES	HRDOW





## Model Output - School Receptors Unit Emission Rates (1 g/s)

L0000533	0	0.34576E-02	421977.1	3752760.3	123.9	4.15	9.30	1.93	YES	HRDOW
L0000534	0	0.34576E-02	421963.5	3752774.9	124.0	4.15	9.30	1.93	YES	HRDOW

## Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265

\*\*\*                    02/08/22  
 \*\*\*                    10:02:13  
 \*\*\*                    PAGE    6

\*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000535	0	0.34576E-02	421949.9	3752789.6	124.0	4.15	9.30	1.93	YES	HRDOW
L0000536	0	0.34576E-02	421936.3	3752804.3	124.1	4.15	9.30	1.93	YES	HRDOW
L0000537	0	0.34576E-02	421922.8	3752819.0	124.1	4.15	9.30	1.93	YES	HRDOW
L0000538	0	0.34576E-02	421909.2	3752833.6	124.2	4.15	9.30	1.93	YES	HRDOW
L0000539	0	0.34576E-02	421895.6	3752848.3	124.2	4.15	9.30	1.93	YES	HRDOW
L0000540	0	0.34576E-02	421882.0	3752863.0	124.3	4.15	9.30	1.93	YES	HRDOW
L0000541	0	0.34576E-02	421868.4	3752877.7	124.3	4.15	9.30	1.93	YES	HRDOW
L0000542	0	0.34576E-02	421854.8	3752892.3	124.4	4.15	9.30	1.93	YES	HRDOW
L0000543	0	0.34576E-02	421844.1	3752909.1	124.3	4.15	9.30	1.93	YES	HRDOW
L0000544	0	0.34576E-02	421834.4	3752926.6	124.1	4.15	9.30	1.93	YES	HRDOW
L0000545	0	0.34576E-02	421824.6	3752944.0	124.0	4.15	9.30	1.93	YES	HRDOW
L0000546	0	0.34576E-02	421816.4	3752962.2	123.9	4.15	9.30	1.93	YES	HRDOW
L0000547	0	0.34576E-02	421810.0	3752981.1	123.9	4.15	9.30	1.93	YES	HRDOW
L0000548	0	0.34576E-02	421803.6	3753000.1	123.9	4.15	9.30	1.93	YES	HRDOW
L0000549	0	0.34576E-02	421797.2	3753019.0	123.8	4.15	9.30	1.93	YES	HRDOW
L0000550	0	0.34576E-02	421792.8	3753038.5	123.9	4.15	9.30	1.93	YES	HRDOW
L0000551	0	0.34576E-02	421789.8	3753058.2	124.0	4.15	9.30	1.93	YES	HRDOW
L0000552	0	0.34576E-02	421786.9	3753078.0	124.2	4.15	9.30	1.93	YES	HRDOW
L0000553	0	0.34576E-02	421785.5	3753098.0	124.5	4.15	9.30	1.93	YES	HRDOW
L0000554	0	0.34576E-02	421784.4	3753117.9	124.9	4.15	9.30	1.93	YES	HRDOW
L0000555	0	0.34576E-02	421783.3	3753137.9	125.3	4.15	9.30	1.93	YES	HRDOW
L0000556	0	0.34576E-02	421782.1	3753157.9	125.7	4.15	9.30	1.93	YES	HRDOW
L0000557	0	0.34576E-02	421781.0	3753177.8	126.1	4.15	9.30	1.93	YES	HRDOW
L0000558	0	0.34576E-02	421779.9	3753197.8	126.4	4.15	9.30	1.93	YES	HRDOW
L0000559	0	0.34576E-02	421778.8	3753217.8	126.8	4.15	9.30	1.93	YES	HRDOW
L0000560	0	0.34576E-02	421777.7	3753237.7	127.2	4.15	9.30	1.93	YES	HRDOW
L0000561	0	0.34576E-02	421776.6	3753257.7	127.6	4.15	9.30	1.93	YES	HRDOW
L0000562	0	0.34576E-02	421775.5	3753277.7	128.0	4.15	9.30	1.93	YES	HRDOW
L0000563	0	0.34576E-02	421774.4	3753297.6	128.4	4.15	9.30	1.93	YES	HRDOW
L0000564	0	0.34576E-02	421770.6	3753317.1	129.1	4.15	9.30	1.93	YES	HRDOW
L0000565	0	0.34576E-02	421764.3	3753336.1	130.3	4.15	9.30	1.93	YES	HRDOW
L0000566	0	0.34576E-02	421755.2	3753353.8	131.7	4.15	9.30	1.93	YES	HRDOW
L0000567	0	0.34576E-02	421745.6	3753371.4	133.0	4.15	9.30	1.93	YES	HRDOW
L0000568	0	0.34576E-02	421732.3	3753386.1	134.2	4.15	9.30	1.93	YES	HRDOW
L0000569	0	0.34576E-02	421717.6	3753399.6	135.2	4.15	9.30	1.93	YES	HRDOW
L0000570	0	0.34576E-02	421701.5	3753411.2	136.1	4.15	9.30	1.93	YES	HRDOW
L0000571	0	0.34576E-02	421683.6	3753420.0	137.0	4.15	9.30	1.93	YES	HRDOW
L0000572	0	0.34576E-02	421664.8	3753426.1	137.8	4.15	9.30	1.93	YES	HRDOW

## Model Output - School Receptors Unit Emission Rates (1 g/s)

L0000573	0	0.34576E-02	421645.0	3753429.4	138.5	4.15	9.30	1.93	YES	HRDOW
L0000574	0	0.34576E-02	421625.3	3753432.6	139.1	4.15	9.30	1.93	YES	HRDOW

## Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\* Brea 265

\*\*\* 02/08/22  
 \*\*\* 10:02:13  
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\*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000575	0	0.34576E-02	421605.6	3753435.9	139.7	4.15	9.30	1.93	YES	HRDOW
L0000576	0	0.34576E-02	421585.7	3753437.4	140.0	4.15	9.30	1.93	YES	HRDOW
L0000577	0	0.34576E-02	421565.7	3753437.2	139.8	4.15	9.30	1.93	YES	HRDOW
L0000578	0	0.34576E-02	421545.7	3753437.1	139.7	4.15	9.30	1.93	YES	HRDOW
L0000579	0	0.34576E-02	421525.7	3753436.9	139.5	4.15	9.30	1.93	YES	HRDOW
L0000580	0	0.34576E-02	421505.7	3753436.7	139.4	4.15	9.30	1.93	YES	HRDOW
L0000581	0	0.34576E-02	421485.7	3753436.5	139.2	4.15	9.30	1.93	YES	HRDOW
L0000582	0	0.34576E-02	421465.7	3753436.3	139.1	4.15	9.30	1.93	YES	HRDOW
L0000583	0	0.34576E-02	421445.7	3753436.2	139.0	4.15	9.30	1.93	YES	HRDOW
L0000584	0	0.34576E-02	421425.7	3753436.0	138.8	4.15	9.30	1.93	YES	HRDOW
L0000585	0	0.34576E-02	421405.7	3753435.8	138.7	4.15	9.30	1.93	YES	HRDOW
L0000586	0	0.34576E-02	421385.7	3753435.6	138.5	4.15	9.30	1.93	YES	HRDOW
L0000587	0	0.34576E-02	421365.7	3753435.5	138.4	4.15	9.30	1.93	YES	HRDOW
L0000588	0	0.34576E-02	421345.7	3753435.3	138.2	4.15	9.30	1.93	YES	HRDOW
L0000589	0	0.34576E-02	421325.7	3753435.1	138.1	4.15	9.30	1.93	YES	HRDOW
L0000590	0	0.34576E-02	421305.7	3753434.9	138.0	4.15	9.30	1.93	YES	HRDOW
L0000591	0	0.34576E-02	421285.7	3753434.8	137.8	4.15	9.30	1.93	YES	HRDOW
L0000592	0	0.34576E-02	421265.7	3753434.6	137.7	4.15	9.30	1.93	YES	HRDOW
L0000593	0	0.34576E-02	421245.7	3753434.4	137.5	4.15	9.30	1.93	YES	HRDOW
L0000594	0	0.34576E-02	421225.7	3753434.2	137.4	4.15	9.30	1.93	YES	HRDOW
L0000595	0	0.34576E-02	421205.7	3753434.0	137.2	4.15	9.30	1.93	YES	HRDOW
L0000596	0	0.34576E-02	421185.7	3753433.9	137.1	4.15	9.30	1.93	YES	HRDOW
L0000597	0	0.34576E-02	421165.7	3753433.7	136.9	4.15	9.30	1.93	YES	HRDOW
L0000598	0	0.34576E-02	421145.7	3753433.5	136.8	4.15	9.30	1.93	YES	HRDOW
L0000599	0	0.34576E-02	421125.7	3753433.3	136.7	4.15	9.30	1.93	YES	HRDOW
L0000600	0	0.34576E-02	421105.7	3753433.2	136.5	4.15	9.30	1.93	YES	HRDOW
L0000601	0	0.34576E-02	421085.7	3753433.0	136.4	4.15	9.30	1.93	YES	HRDOW
L0000602	0	0.34576E-02	421065.7	3753432.8	136.2	4.15	9.30	1.93	YES	HRDOW
L0000603	0	0.34576E-02	421045.7	3753432.6	136.1	4.15	9.30	1.93	YES	HRDOW
L0000604	0	0.34576E-02	421025.7	3753432.5	135.9	4.15	9.30	1.93	YES	HRDOW
L0000605	0	0.34576E-02	421005.7	3753432.3	135.8	4.15	9.30	1.93	YES	HRDOW
L0000606	0	0.34576E-02	420985.7	3753432.1	135.6	4.15	9.30	1.93	YES	HRDOW
L0000607	0	0.34576E-02	420965.7	3753431.9	135.5	4.15	9.30	1.93	YES	HRDOW
L0000608	0	0.34576E-02	420945.7	3753431.8	135.4	4.15	9.30	1.93	YES	HRDOW
L0000609	0	0.34576E-02	420925.7	3753431.6	135.2	4.15	9.30	1.93	YES	HRDOW
L0000610	0	0.34576E-02	420905.7	3753431.4	135.1	4.15	9.30	1.93	YES	HRDOW
L0000611	0	0.34576E-02	420885.7	3753431.2	134.9	4.15	9.30	1.93	YES	HRDOW
L0000612	0	0.34576E-02	420865.7	3753431.0	134.8	4.15	9.30	1.93	YES	HRDOW

## Model Output - School Receptors Unit Emission Rates (1 g/s)

L0000613	0	0.34576E-02	420845.7	3753430.9	134.6	4.15	9.30	1.93	YES	HRDOW
L0000614	0	0.34576E-02	420825.7	3753430.7	134.5	4.15	9.30	1.93	YES	HRDOW

## Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265  
 \*\*\* MODELOPTs:    NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

\*\*\*                    02/08/22  
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\*\*\* VOLUME SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000615	0	0.34576E-02	420805.7	3753430.5	134.3	4.15	9.30	1.93	YES	HRDOW
L0000616	0	0.34576E-02	420785.7	3753430.3	134.2	4.15	9.30	1.93	YES	HRDOW
L0000617	0	0.34576E-02	420765.7	3753430.2	134.1	4.15	9.30	1.93	YES	HRDOW
L0000618	0	0.34576E-02	420745.7	3753430.0	133.9	4.15	9.30	1.93	YES	HRDOW
L0000619	0	0.34576E-02	420725.7	3753429.8	133.8	4.15	9.30	1.93	YES	HRDOW
L0000620	0	0.34576E-02	420705.7	3753429.6	133.6	4.15	9.30	1.93	YES	HRDOW

## Model Output - School Receptors Unit Emission Rates (1 g/s)

```

*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:02:13
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 9
  
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\*\*\* AREAPOLY SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X Y (METERS) (METERS)		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PHASE1	0	0.36292E-05	421688.1	3753497.1	135.7	4.15	32	1.93	YES	HRDOW
PHASE2	0	0.25300E-05	420938.2	3754232.9	159.8	4.15	5	1.93	YES	HRDOW
PHASE3	0	0.24952E-05	421670.9	3754038.8	159.2	4.15	43	1.93	YES	HRDOW



## Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265

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\*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs																
-----	-----																
YR2023	PHASE1	,	PHASE2	,													
YR2024	PHASE1	,	PHASE2	,	PHASE3	,											
YR2025	PHASE1	,	PHASE2	,													
HAULROUT	L0000375	,	L0000376	,	L0000377	,	L0000378	,	L0000379	,	L0000380	,	L0000381	,	L0000382	,	
	L0000383	,	L0000384	,	L0000385	,	L0000386	,	L0000387	,	L0000388	,	L0000389	,	L0000390	,	
	L0000391	,	L0000392	,	L0000393	,	L0000394	,	L0000395	,	L0000396	,	L0000397	,	L0000398	,	
	L0000399	,	L0000400	,	L0000401	,	L0000402	,	L0000403	,	L0000404	,	L0000405	,	L0000406	,	
	L0000407	,	L0000408	,	L0000409	,	L0000410	,	L0000411	,	L0000412	,	L0000413	,	L0000414	,	
	L0000415	,	L0000416	,	L0000417	,	L0000418	,	L0000419	,	L0000420	,	L0000421	,	L0000422	,	
	L0000423	,	L0000424	,	L0000425	,	L0000426	,	L0000427	,	L0000428	,	L0000429	,	L0000430	,	
	L0000431	,	L0000432	,	L0000433	,	L0000434	,	L0000435	,	L0000436	,	L0000437	,	L0000438	,	
	L0000439	,	L0000440	,	L0000441	,	L0000442	,	L0000443	,	L0000444	,	L0000445	,	L0000446	,	
	L0000447	,	L0000448	,	L0000449	,	L0000450	,	L0000451	,	L0000452	,	L0000453	,	L0000454	,	
	L0000455	,	L0000456	,	L0000457	,	L0000458	,	L0000459	,	L0000460	,	L0000461	,	L0000462	,	
	L0000463	,	L0000464	,	L0000465	,	L0000466	,	L0000467	,	L0000468	,	L0000469	,	L0000470	,	
	L0000471	,	L0000472	,	L0000473	,	L0000474	,	L0000475	,	L0000476	,	L0000477	,	L0000478	,	
	L0000479	,	L0000480	,	L0000481	,	L0000482	,	L0000483	,	L0000484	,	L0000485	,	L0000486	,	
	L0000487	,	L0000488	,	L0000489	,	L0000490	,	L0000491	,	L0000492	,	L0000493	,	L0000494	,	
	L0000495	,	L0000496	,	L0000497	,	L0000498	,	L0000499	,	L0000500	,	L0000501	,	L0000502	,	
	L0000503	,	L0000504	,	L0000505	,	L0000506	,	L0000507	,	L0000508	,	L0000509	,	L0000510	,	

## Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265  
 \*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

\*\*\*                    02/08/22  
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\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID -----	SOURCE IDs -----															
	L0000511	,	L0000512	,	L0000513	,	L0000514	,	L0000515	,	L0000516	,	L0000517	,	L0000518	,
	L0000519	,	L0000520	,	L0000521	,	L0000522	,	L0000523	,	L0000524	,	L0000525	,	L0000526	,
	L0000527	,	L0000528	,	L0000529	,	L0000530	,	L0000531	,	L0000532	,	L0000533	,	L0000534	,
	L0000535	,	L0000536	,	L0000537	,	L0000538	,	L0000539	,	L0000540	,	L0000541	,	L0000542	,
	L0000543	,	L0000544	,	L0000545	,	L0000546	,	L0000547	,	L0000548	,	L0000549	,	L0000550	,
	L0000551	,	L0000552	,	L0000553	,	L0000554	,	L0000555	,	L0000556	,	L0000557	,	L0000558	,
	L0000559	,	L0000560	,	L0000561	,	L0000562	,	L0000563	,	L0000564	,	L0000565	,	L0000566	,
	L0000567	,	L0000568	,	L0000569	,	L0000570	,	L0000571	,	L0000572	,	L0000573	,	L0000574	,
	L0000575	,	L0000576	,	L0000577	,	L0000578	,	L0000579	,	L0000580	,	L0000581	,	L0000582	,
	L0000583	,	L0000584	,	L0000585	,	L0000586	,	L0000587	,	L0000588	,	L0000589	,	L0000590	,
	L0000591	,	L0000592	,	L0000593	,	L0000594	,	L0000595	,	L0000596	,	L0000597	,	L0000598	,
	L0000599	,	L0000600	,	L0000601	,	L0000602	,	L0000603	,	L0000604	,	L0000605	,	L0000606	,
	L0000607	,	L0000608	,	L0000609	,	L0000610	,	L0000611	,	L0000612	,	L0000613	,	L0000614	,
	L0000615	,	L0000616	,	L0000617	,	L0000618	,	L0000619	,	L0000620	,				
ALLPHASE	PHASE1	,	PHASE2	,	PHASE3	,										
YR2026	PHASE2	,	PHASE3	,												
YR2027	PHASE2	,	PHASE3	,												
YR2028	PHASE3	,														
YR2030	PHASE3	,														
YR2029	PHASE3	,														

## Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265  
 \*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

\*\*\*                    02/08/22  
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\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
L0000379	3186989.	PHASE1	, PHASE2	, PHASE3	, L0000375	, L0000376	, L0000377	, L0000378	,
	,								
	L0000380	, L0000381	, L0000382	, L0000383	, L0000384	, L0000385	, L0000386	, L0000387	,
	L0000388	, L0000389	, L0000390	, L0000391	, L0000392	, L0000393	, L0000394	, L0000395	,
	L0000396	, L0000397	, L0000398	, L0000399	, L0000400	, L0000401	, L0000402	, L0000403	,
	L0000404	, L0000405	, L0000406	, L0000407	, L0000408	, L0000409	, L0000410	, L0000411	,
	L0000412	, L0000413	, L0000414	, L0000415	, L0000416	, L0000417	, L0000418	, L0000419	,
	L0000420	, L0000421	, L0000422	, L0000423	, L0000424	, L0000425	, L0000426	, L0000427	,
	L0000428	, L0000429	, L0000430	, L0000431	, L0000432	, L0000433	, L0000434	, L0000435	,
	L0000436	, L0000437	, L0000438	, L0000439	, L0000440	, L0000441	, L0000442	, L0000443	,
	L0000444	, L0000445	, L0000446	, L0000447	, L0000448	, L0000449	, L0000450	, L0000451	,
	L0000452	, L0000453	, L0000454	, L0000455	, L0000456	, L0000457	, L0000458	, L0000459	,
	L0000460	, L0000461	, L0000462	, L0000463	, L0000464	, L0000465	, L0000466	, L0000467	,
	L0000468	, L0000469	, L0000470	, L0000471	, L0000472	, L0000473	, L0000474	, L0000475	,
	L0000476	, L0000477	, L0000478	, L0000479	, L0000480	, L0000481	, L0000482	, L0000483	,
	L0000484	, L0000485	, L0000486	, L0000487	, L0000488	, L0000489	, L0000490	, L0000491	,
	L0000492	, L0000493	, L0000494	, L0000495	, L0000496	, L0000497	, L0000498	, L0000499	,
	L0000500	, L0000501	, L0000502	, L0000503	, L0000504	, L0000505	, L0000506	, L0000507	,
	L0000508	, L0000509	, L0000510	, L0000511	, L0000512	, L0000513	, L0000514	, L0000515	,
	L0000516	, L0000517	, L0000518	, L0000519	, L0000520	, L0000521	, L0000522	, L0000523	,

## Model Output - School Receptors Unit Emission Rates (1 g/s)

L0000524 , L0000525 , L0000526 , L0000527 , L0000528 , L0000529 , L0000530 , L0000531 ,

## Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265  
 \*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

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\*\*\* SOURCE IDs DEFINED AS URBAN SOURCES \*\*\*

URBAN ID -----	URBAN POP -----	SOURCE IDs -----
L0000532	,	L0000533 , L0000534 , L0000535 , L0000536 , L0000537 , L0000538 , L0000539 ,
L0000540	,	L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 ,
L0000548	,	L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 ,
L0000556	,	L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 ,
L0000564	,	L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 ,
L0000572	,	L0000573 , L0000574 , L0000575 , L0000576 , L0000577 , L0000578 , L0000579 ,
L0000580	,	L0000581 , L0000582 , L0000583 , L0000584 , L0000585 , L0000586 , L0000587 ,
L0000588	,	L0000589 , L0000590 , L0000591 , L0000592 , L0000593 , L0000594 , L0000595 ,
L0000596	,	L0000597 , L0000598 , L0000599 , L0000600 , L0000601 , L0000602 , L0000603 ,
L0000604	,	L0000605 , L0000606 , L0000607 , L0000608 , L0000609 , L0000610 , L0000611 ,
L0000612	,	L0000613 , L0000614 , L0000615 , L0000616 , L0000617 , L0000618 , L0000619 ,
L0000620	,	

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:02:13
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = PHASE1 - PHASE3 ; SOURCE TYPE = AREAPOLY :													
HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:02:13
                                                                 ***   PAGE 17
  
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = L0000375-L0000620 ; SOURCE TYPE = VOLUME :													
HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR	HR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								



## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:02:13
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\*\*\* MODELOPTs: NonDEFAULT CONC FLAT and ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA \*\*\*

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Surface file:  ..\KFUL_V9_ADJU\KFUL_v9.SFC           Met Version: 16216
Profile file:  ..\KFUL_V9_ADJU\KFUL_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3166           Upper air station no.: 3190
                        Name: UNKNOWN           Name: UNKNOWN
                        Year: 2012             Year: 2012

```

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
12	01	01	1	01	-4.8	0.098	-9.000	-9.000	-999.	74.	18.0	0.26	2.61	1.00	0.96	322.	10.1	283.8	2.0			
12	01	01	1	02	-1.9	0.072	-9.000	-9.000	-999.	47.	18.0	0.26	2.61	1.00	0.52	13.	10.1	283.1	2.0			
12	01	01	1	03	-3.1	0.083	-9.000	-9.000	-999.	57.	16.3	0.26	2.61	1.00	0.75	73.	10.1	282.0	2.0			
12	01	01	1	04	-4.3	0.094	-9.000	-9.000	-999.	69.	17.3	0.26	2.61	1.00	0.91	98.	10.1	281.4	2.0			
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.26	2.61	1.00	0.00	0.	10.1	280.9	2.0			
12	01	01	1	06	-2.1	0.074	-9.000	-9.000	-999.	48.	17.6	0.26	2.61	1.00	0.55	80.	10.1	280.4	2.0			
12	01	01	1	07	-2.8	0.080	-9.000	-9.000	-999.	54.	16.3	0.26	2.61	1.00	0.69	201.	10.1	280.4	2.0			
12	01	01	1	08	-1.5	0.066	-9.000	-9.000	-999.	41.	17.0	0.26	2.61	0.54	0.52	72.	10.1	280.9	2.0			
12	01	01	1	09	37.4	-9.000	-9.000	-9.000	38.	-999.	-99999.0	0.26	2.61	0.31	0.00	0.	10.1	285.9	2.0			
12	01	01	1	10	109.1	0.151	0.713	0.008	121.	141.	-2.9	0.26	2.61	0.24	0.79	268.	10.1	289.9	2.0			
12	01	01	1	11	160.5	0.148	1.143	0.005	338.	136.	-1.8	0.26	2.61	0.21	0.70	273.	10.1	294.2	2.0			
12	01	01	1	12	186.9	0.156	1.483	0.005	634.	148.	-1.8	0.26	2.61	0.20	0.74	230.	10.1	297.5	2.0			
12	01	01	1	13	187.4	0.210	1.777	0.005	1088.	231.	-4.5	0.26	2.61	0.20	1.20	227.	10.1	300.4	2.0			
12	01	01	1	14	160.3	0.235	1.833	0.005	1395.	274.	-7.4	0.26	2.61	0.21	1.47	233.	10.1	300.9	2.0			
12	01	01	1	15	109.1	0.197	1.662	0.005	1527.	210.	-6.3	0.26	2.61	0.25	1.20	233.	10.1	302.0	2.0			
12	01	01	1	16	33.3	0.243	1.125	0.005	1548.	288.	-39.2	0.26	2.61	0.33	1.91	229.	10.1	298.1	2.0			
12	01	01	1	17	-9.1	0.141	-9.000	-9.000	-999.	132.	28.3	0.26	2.61	0.60	1.37	212.	10.1	294.2	2.0			
12	01	01	1	18	-4.3	0.094	-9.000	-9.000	-999.	69.	17.5	0.26	2.61	1.00	0.91	190.	10.1	292.0	2.0			
12	01	01	1	19	-2.8	0.079	-9.000	-9.000	-999.	54.	16.3	0.26	2.61	1.00	0.70	302.	10.1	289.2	2.0			
12	01	01	1	20	-4.0	0.091	-9.000	-9.000	-999.	65.	17.0	0.26	2.61	1.00	0.87	338.	10.1	288.1	2.0			
12	01	01	1	21	-6.3	0.113	-9.000	-9.000	-999.	91.	20.5	0.26	2.61	1.00	1.11	304.	10.1	287.0	2.0			
12	01	01	1	22	-3.1	0.082	-9.000	-9.000	-999.	57.	16.3	0.26	2.61	1.00	0.75	76.	10.1	285.4	2.0			
12	01	01	1	23	-2.4	0.076	-9.000	-9.000	-999.	50.	16.7	0.26	2.61	1.00	0.62	306.	10.1	284.9	2.0			
12	01	01	1	24	-3.6	0.087	-9.000	-9.000	-999.	62.	16.6	0.26	2.61	1.00	0.82	318.	10.1	283.8	2.0			

First hour of profile data

```

YR MO DY HR HEIGHT F WDIR      WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01 10.1 1 322.    0.96 283.8 99.0 -99.00 -99.00

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F indicates top of profile (=1) or below (=0)



## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:02:13
*** MODELPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 268
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2023   ***
    INCLUDING SOURCE(S):   PHASE1   , PHASE2   ,
  
```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
420975.66	3753651.65	0.48997	420995.66	3753651.65	0.53446
421015.66	3753651.65	0.56894	421035.66	3753651.65	0.59608
421055.66	3753651.65	0.61887	421075.66	3753651.65	0.63692
421095.66	3753651.65	0.65201	421115.66	3753651.65	0.66493
421135.66	3753651.65	0.67641	421155.66	3753651.65	0.68703
421175.66	3753651.65	0.69620	421195.66	3753651.65	0.70377
420945.89	3753399.73	0.12901	North Hills	MER	



## Model Output - School Receptors Unit Emission Rates (1 g/s)

```

*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265         ***   10:02:13
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 272
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2025 ***
    INCLUDING SOURCE(S):   PHASE1   , PHASE2   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
420975.66	3753651.65	0.48997	420995.66	3753651.65	0.53446
421015.66	3753651.65	0.56894	421035.66	3753651.65	0.59608
421055.66	3753651.65	0.61887	421075.66	3753651.65	0.63692
421095.66	3753651.65	0.65201	421115.66	3753651.65	0.66493
421135.66	3753651.65	0.67641	421155.66	3753651.65	0.68703
421175.66	3753651.65	0.69620	421195.66	3753651.65	0.70377
420945.89	3753399.73	0.12901	North Hills	MER	

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265         ***   10:02:13
                                     *** PAGE 274
  
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*** MODELOPTs:   NonDEFAULT   CONC   FLAT and   ELEV   URBAN   ADJ_U*
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HAULROUT ***
      INCLUDING SOURCE(S):   L0000375   ,   L0000376   ,   L0000377   ,   L0000378   ,   L0000379   ,
L0000380   ,   L0000381   ,   L0000382   ,   L0000383   ,   L0000384   ,   L0000385   ,   L0000386   ,   L0000387   ,
L0000388   ,   L0000389   ,   L0000390   ,   L0000391   ,   L0000392   ,   L0000393   ,   L0000394   ,   L0000395   ,
L0000396   ,   L0000397   ,   L0000398   ,   L0000399   ,   L0000400   ,   L0000401   ,   L0000402   ,   . . .
  
```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER      IN MICROGRAMS/M\*\*3      \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
420975.66	3753651.65	0.20110	420995.66	3753651.65	0.20479
421015.66	3753651.65	0.20843	421035.66	3753651.65	0.21208
421055.66	3753651.65	0.21587	421075.66	3753651.65	0.21927
421095.66	3753651.65	0.22244	421115.66	3753651.65	0.22539
421135.66	3753651.65	0.22806	421155.66	3753651.65	0.23073
421175.66	3753651.65	0.23352	421195.66	3753651.65	0.23639
420945.89	3753399.73	1.01737			Olinda ES MER

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   ***   10:02:13
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 276
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALLPHASE ***
INCLUDING SOURCE(S):   PHASE1   , PHASE2   , PHASE3   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
420975.66	3753651.65	0.57274	420995.66	3753651.65	0.61960
421015.66	3753651.65	0.65655	421035.66	3753651.65	0.68627
421055.66	3753651.65	0.71173	421075.66	3753651.65	0.73264
421095.66	3753651.65	0.75077	421115.66	3753651.65	0.76695
421135.66	3753651.65	0.78193	421155.66	3753651.65	0.79629
421175.66	3753651.65	0.80946	421195.66	3753651.65	0.82128
420945.89	3753399.73	0.18679			Olinda ES MER
					North Hills MER

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   10:02:13
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 278
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2026   ***
    INCLUDING SOURCE(S):   PHASE2   , PHASE3   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
420975.66	3753651.65	0.53324	420995.66	3753651.65	0.57938
421015.66	3753651.65	0.61555	421035.66	3753651.65	0.64441
421055.66	3753651.65	0.66747	421075.66	3753651.65	0.68742
421095.66	3753651.65	0.70455	421115.66	3753651.65	0.71969
421135.66	3753651.65	0.73360	421155.66	3753651.65	0.74683
421175.66	3753651.65	0.75881	421195.66	3753651.65	0.76937
420945.89	3753399.73	0.12516	North Hills	MER	

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   10:02:13
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 280
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2027   ***
    INCLUDING SOURCE(S):   PHASE2   , PHASE3   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
420975.66	3753651.65	0.53324	420995.66	3753651.65	0.57938
421015.66	3753651.65	0.61555	421035.66	3753651.65	0.64441
421055.66	3753651.65	0.66747	421075.66	3753651.65	0.68742
421095.66	3753651.65	0.70455	421115.66	3753651.65	0.71969
421135.66	3753651.65	0.73360	421155.66	3753651.65	0.74683
421175.66	3753651.65	0.75881	421195.66	3753651.65	0.76937
420945.89	3753399.73	0.12516			Olinda ES MER

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA           ***           02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265                 ***           10:02:13
                                           PAGE 282

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*** MODELOPTs:   NonDEFAULT  CONC  FLAT and  ELEV  URBAN  ADJ_U*

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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2028 ***
    INCLUDING SOURCE(S):      PHASE3

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
420975.66	3753651.65	0.08277	420995.66	3753651.65	0.08515
421015.66	3753651.65	0.08762	421035.66	3753651.65	0.09019
421055.66	3753651.65	0.09286	421075.66	3753651.65	0.09571
421095.66	3753651.65	0.09876	421115.66	3753651.65	0.10201
421135.66	3753651.65	0.10552	421155.66	3753651.65	0.10926
421175.66	3753651.65	0.11326	421195.66	3753651.65	0.11751 Olinda ES MER
420945.89	3753399.73	0.05777 North Hills MER			



## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   10:02:13
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 284
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2030   ***
    INCLUDING SOURCE(S):   PHASE3   ,
  
```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
420975.66	3753651.65	0.08277	420995.66	3753651.65	0.08515
421015.66	3753651.65	0.08762	421035.66	3753651.65	0.09019
421055.66	3753651.65	0.09286	421075.66	3753651.65	0.09571
421095.66	3753651.65	0.09876	421115.66	3753651.65	0.10201
421135.66	3753651.65	0.10552	421155.66	3753651.65	0.10926
421175.66	3753651.65	0.11326	421195.66	3753651.65	0.11751
420945.89	3753399.73	0.05777			Olinda ES MER
					North Hills MER

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:02:13
*** MODELPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 286
  
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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: YR2029   ***
    INCLUDING SOURCE(S):   PHASE3   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER      IN MICROGRAMS/M\*\*3      \*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
420975.66	3753651.65	0.08277	420995.66	3753651.65	0.08515
421015.66	3753651.65	0.08762	421035.66	3753651.65	0.09019
421055.66	3753651.65	0.09286	421075.66	3753651.65	0.09571
421095.66	3753651.65	0.09876	421115.66	3753651.65	0.10201
421135.66	3753651.65	0.10552	421155.66	3753651.65	0.10926
421175.66	3753651.65	0.11326	421195.66	3753651.65	0.11751
420945.89	3753399.73	0.05777			Olinda ES MER
					North Hills MER

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   10:02:13
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 288
  
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2023 ***
    INCLUDING SOURCE(S):   PHASE1   , PHASE2   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
420975.66	3753651.65	4.84964c (12011124)	420995.66	3753651.65	4.97040c (12011124)
421015.66	3753651.65	5.03345c (12011124)	421035.66	3753651.65	5.06394c (12011124)
421055.66	3753651.65	5.07456c (12011124)	421075.66	3753651.65	5.14320c (12011124)
421095.66	3753651.65	5.29993c (16020424)	421115.66	3753651.65	5.47490c (16020424)
421135.66	3753651.65	5.63413c (16020424)	421155.66	3753651.65	5.77242c (16020424)
421175.66	3753651.65	5.89537c (16020424)	421195.66	3753651.65	6.00126c (16020424) Olinda ES MER
420945.89	3753399.73	2.22884c (12011124) North Hills MER			

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:02:13
*** MODELPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 290
  
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2024 ***
    INCLUDING SOURCE(S):   PHASE1   , PHASE2   , PHASE3   ,
  
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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
420975.66	3753651.65	5.16298c (14120524)	420995.66	3753651.65	5.29054 (16120124)
421015.66	3753651.65	5.43087 (16120124)	421035.66	3753651.65	5.44444 (16120124)
421055.66	3753651.65	5.59111 (16120124)	421075.66	3753651.65	5.62058 (16120124)
421095.66	3753651.65	5.64276 (16120124)	421115.66	3753651.65	5.59724c (16020424)
421135.66	3753651.65	5.76294c (16020424)	421155.66	3753651.65	5.90820c (16020424)
421175.66	3753651.65	6.03866c (16020424)	421195.66	3753651.65	6.15266c (16020424) Olinda ES MER
420945.89	3753399.73	2.37211c (12011124) North Hills MER			

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   10:02:13
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 292
  
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2025 ***
    INCLUDING SOURCE(S):   PHASE1   , PHASE2   ,
  
```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
420975.66	3753651.65	4.84964c (12011124)	420995.66	3753651.65	4.97040c (12011124)
421015.66	3753651.65	5.03345c (12011124)	421035.66	3753651.65	5.06394c (12011124)
421055.66	3753651.65	5.07456c (12011124)	421075.66	3753651.65	5.14320c (12011124)
421095.66	3753651.65	5.29993c (16020424)	421115.66	3753651.65	5.47490c (16020424)
421135.66	3753651.65	5.63413c (16020424)	421155.66	3753651.65	5.77242c (16020424)
421175.66	3753651.65	5.89537c (16020424)	421195.66	3753651.65	6.00126c (16020424) Olinda ES MER
420945.89	3753399.73	2.22884c (12011124) North Hills MER			

## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265   ***   10:02:13
*** MODELOPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 300
  
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: YR2027 ***
    INCLUDING SOURCE(S):   PHASE2   , PHASE3   ,
  
```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS \*\*\*

\*\* CONC OF OTHER IN MICROGRAMS/M\*\*3 \*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
420975.66	3753651.65	5.10049	(16120124)	420995.66	3753651.65	5.24033	(16120124)
421015.66	3753651.65	5.37955	(16120124)	421035.66	3753651.65	5.39193	(16120124)
421055.66	3753651.65	5.53346	(16120124)	421075.66	3753651.65	5.56156	(16120124)
421095.66	3753651.65	5.58232	(16120124)	421115.66	3753651.65	5.59491c	(16020424)
421135.66	3753651.65	5.76060c	(16020424)	421155.66	3753651.65	5.90585c	(16020424)
421175.66	3753651.65	6.03631c	(16020424)	421195.66	3753651.65	6.15031c	(16020424) Olinda ES MER
420945.89	3753399.73	2.18648c	(12011124) North Hills MER				

## Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265

\*\*\*            02/08/22  
 \*\*\*            10:02:13  
 \*\*\*            PAGE 307

\*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS \*\*\*

\*\* CONC OF OTHER            IN MICROGRAMS/M\*\*3            \*\*

GROUP ID	AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
YR2023	1ST HIGHEST VALUE IS	0.70377	AT (	421195.66,	3753651.65,	140.25,	391.99,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.69620	AT (	421175.66,	3753651.65,	140.18,	391.99,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.68703	AT (	421155.66,	3753651.65,	140.07,	391.99,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.67641	AT (	421135.66,	3753651.65,	139.98,	391.99,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.66493	AT (	421115.66,	3753651.65,	139.92,	391.99,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.65201	AT (	421095.66,	3753651.65,	140.02,	391.99,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.63692	AT (	421075.66,	3753651.65,	140.23,	391.99,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.61887	AT (	421055.66,	3753651.65,	140.53,	391.99,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.59608	AT (	421035.66,	3753651.65,	140.97,	391.99,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.56894	AT (	421015.66,	3753651.65,	141.24,	391.99,	0.00)	DC	
YR2024	1ST HIGHEST VALUE IS	0.82128	AT (	421195.66,	3753651.65,	140.25,	391.99,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.80946	AT (	421175.66,	3753651.65,	140.18,	391.99,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.79629	AT (	421155.66,	3753651.65,	140.07,	391.99,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.78193	AT (	421135.66,	3753651.65,	139.98,	391.99,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.76695	AT (	421115.66,	3753651.65,	139.92,	391.99,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.75077	AT (	421095.66,	3753651.65,	140.02,	391.99,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.73264	AT (	421075.66,	3753651.65,	140.23,	391.99,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.71173	AT (	421055.66,	3753651.65,	140.53,	391.99,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.68627	AT (	421035.66,	3753651.65,	140.97,	391.99,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.65655	AT (	421015.66,	3753651.65,	141.24,	391.99,	0.00)	DC	
YR2025	1ST HIGHEST VALUE IS	0.70377	AT (	421195.66,	3753651.65,	140.25,	391.99,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.69620	AT (	421175.66,	3753651.65,	140.18,	391.99,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.68703	AT (	421155.66,	3753651.65,	140.07,	391.99,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.67641	AT (	421135.66,	3753651.65,	139.98,	391.99,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.66493	AT (	421115.66,	3753651.65,	139.92,	391.99,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.65201	AT (	421095.66,	3753651.65,	140.02,	391.99,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.63692	AT (	421075.66,	3753651.65,	140.23,	391.99,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.61887	AT (	421055.66,	3753651.65,	140.53,	391.99,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.59608	AT (	421035.66,	3753651.65,	140.97,	391.99,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.56894	AT (	421015.66,	3753651.65,	141.24,	391.99,	0.00)	DC	
HAULROUT	1ST HIGHEST VALUE IS	1.01737	AT (	420945.89,	3753399.73,	134.00,	134.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.60784	AT (	421175.66,	3753511.65,	137.70,	391.99,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.60447	AT (	421155.66,	3753511.65,	137.88,	391.99,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.60045	AT (	421135.66,	3753511.65,	137.78,	391.99,	0.00)	DC	

## Model Output - School Receptors Unit Emission Rates (1 g/s)

5TH HIGHEST VALUE IS	0.59647	AT (	421115.66,	3753511.65,	137.62,	391.99,	0.00)	DC
6TH HIGHEST VALUE IS	0.58014	AT (	421035.66,	3753511.65,	137.29,	137.29,	0.00)	DC
7TH HIGHEST VALUE IS	0.57539	AT (	421015.66,	3753511.65,	137.34,	137.34,	0.00)	DC
8TH HIGHEST VALUE IS	0.57037	AT (	420995.66,	3753511.65,	137.36,	137.36,	0.00)	DC
9TH HIGHEST VALUE IS	0.56508	AT (	420975.66,	3753511.65,	137.35,	137.35,	0.00)	DC
10TH HIGHEST VALUE IS	0.55945	AT (	420955.66,	3753511.65,	137.32,	137.32,	0.00)	DC



## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:02:13
*** MODELPTS:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 308
  
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\*\*\* THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS \*\*\*

\*\* CONC OF OTHER      IN MICROGRAMS/M\*\*3      \*\*

GROUP ID	AVERAGE CONC			RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
-----						
ALLPHASE	1ST HIGHEST VALUE IS	0.82128	AT (	Olinda ES MER Location 421195.66, 3753651.65,	140.25,	391.99, 0.00) DC
	2ND HIGHEST VALUE IS	0.80946	AT (	421175.66, 3753651.65,	140.18,	391.99, 0.00) DC
	3RD HIGHEST VALUE IS	0.79629	AT (	421155.66, 3753651.65,	140.07,	391.99, 0.00) DC
	4TH HIGHEST VALUE IS	0.78193	AT (	421135.66, 3753651.65,	139.98,	391.99, 0.00) DC
	5TH HIGHEST VALUE IS	0.76695	AT (	421115.66, 3753651.65,	139.92,	391.99, 0.00) DC
	6TH HIGHEST VALUE IS	0.75077	AT (	421095.66, 3753651.65,	140.02,	391.99, 0.00) DC
	7TH HIGHEST VALUE IS	0.73264	AT (	421075.66, 3753651.65,	140.23,	391.99, 0.00) DC
	8TH HIGHEST VALUE IS	0.71173	AT (	421055.66, 3753651.65,	140.53,	391.99, 0.00) DC
	9TH HIGHEST VALUE IS	0.68627	AT (	421035.66, 3753651.65,	140.97,	391.99, 0.00) DC
	10TH HIGHEST VALUE IS	0.65655	AT (	421015.66, 3753651.65,	141.24,	391.99, 0.00) DC
YR2026	1ST HIGHEST VALUE IS	0.76937	AT (	421195.66, 3753651.65,	140.25,	391.99, 0.00) DC
	2ND HIGHEST VALUE IS	0.75881	AT (	421175.66, 3753651.65,	140.18,	391.99, 0.00) DC
	3RD HIGHEST VALUE IS	0.74683	AT (	421155.66, 3753651.65,	140.07,	391.99, 0.00) DC
	4TH HIGHEST VALUE IS	0.73360	AT (	421135.66, 3753651.65,	139.98,	391.99, 0.00) DC
	5TH HIGHEST VALUE IS	0.71969	AT (	421115.66, 3753651.65,	139.92,	391.99, 0.00) DC
	6TH HIGHEST VALUE IS	0.70455	AT (	421095.66, 3753651.65,	140.02,	391.99, 0.00) DC
	7TH HIGHEST VALUE IS	0.68742	AT (	421075.66, 3753651.65,	140.23,	391.99, 0.00) DC
	8TH HIGHEST VALUE IS	0.66747	AT (	421055.66, 3753651.65,	140.53,	391.99, 0.00) DC
	9TH HIGHEST VALUE IS	0.64441	AT (	421035.66, 3753651.65,	140.97,	391.99, 0.00) DC
	10TH HIGHEST VALUE IS	0.61555	AT (	421015.66, 3753651.65,	141.24,	391.99, 0.00) DC
YR2027	1ST HIGHEST VALUE IS	0.76937	AT (	421195.66, 3753651.65,	140.25,	391.99, 0.00) DC
	2ND HIGHEST VALUE IS	0.75881	AT (	421175.66, 3753651.65,	140.18,	391.99, 0.00) DC
	3RD HIGHEST VALUE IS	0.74683	AT (	421155.66, 3753651.65,	140.07,	391.99, 0.00) DC
	4TH HIGHEST VALUE IS	0.73360	AT (	421135.66, 3753651.65,	139.98,	391.99, 0.00) DC
	5TH HIGHEST VALUE IS	0.71969	AT (	421115.66, 3753651.65,	139.92,	391.99, 0.00) DC
	6TH HIGHEST VALUE IS	0.70455	AT (	421095.66, 3753651.65,	140.02,	391.99, 0.00) DC
	7TH HIGHEST VALUE IS	0.68742	AT (	421075.66, 3753651.65,	140.23,	391.99, 0.00) DC
	8TH HIGHEST VALUE IS	0.66747	AT (	421055.66, 3753651.65,	140.53,	391.99, 0.00) DC
	9TH HIGHEST VALUE IS	0.64441	AT (	421035.66, 3753651.65,	140.97,	391.99, 0.00) DC
	10TH HIGHEST VALUE IS	0.61555	AT (	421015.66, 3753651.65,	141.24,	391.99, 0.00) DC
YR2028	1ST HIGHEST VALUE IS	0.11751	AT (	421195.66, 3753651.65,	140.25,	391.99, 0.00) DC
	2ND HIGHEST VALUE IS	0.11542	AT (	421195.66, 3753631.65,	139.93,	391.99, 0.00) DC
	3RD HIGHEST VALUE IS	0.11326	AT (	421175.66, 3753651.65,	140.18,	391.99, 0.00) DC
	4TH HIGHEST VALUE IS	0.11301	AT (	421195.66, 3753611.65,	139.64,	391.99, 0.00) DC



## Model Output - School Receptors Unit Emission Rates (1 g/s)

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*** AERMOD - VERSION 21112 ***   *** Construction HRA   ***   02/08/22
*** AERMET - VERSION 16216 ***   *** Brea 265           ***   10:02:13
*** MODELPTs:   NonDEFAULT CONC FLAT and ELEV URBAN ADJ_U*   ***   PAGE 310
  
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\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF OTHER      IN MICROGRAMS/M\*\*3      \*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
YR2023	HIGH	1ST HIGH VALUE IS	6.00126c ON 16020424: AT ( 421195.66, 3753651.65, 140.25, 391.99, 0.00)	DC	
YR2024	HIGH	1ST HIGH VALUE IS	6.15266c ON 16020424: AT ( 421195.66, 3753651.65, 140.25, 391.99, 0.00)	DC	
YR2025	HIGH	1ST HIGH VALUE IS	6.00126c ON 16020424: AT ( 421195.66, 3753651.65, 140.25, 391.99, 0.00)	DC	
HAULROUT	HIGH	1ST HIGH VALUE IS	3.47118c ON 12121024: AT ( 420945.89, 3753399.73, 134.00, 134.00, 0.00)	DC	
ALLPHASE	HIGH	1ST HIGH VALUE IS	6.15266c ON 16020424: AT ( 421195.66, 3753651.65, 140.25, 391.99, 0.00)	DC	
YR2026	HIGH	1ST HIGH VALUE IS	6.15031c ON 16020424: AT ( 421195.66, 3753651.65, 140.25, 391.99, 0.00)	DC	
YR2027	HIGH	1ST HIGH VALUE IS	6.15031c ON 16020424: AT ( 421195.66, 3753651.65, 140.25, 391.99, 0.00)	DC	
YR2028	HIGH	1ST HIGH VALUE IS	1.87216c ON 14120524: AT ( 421195.66, 3753651.65, 140.25, 391.99, 0.00)	DC	
YR2030	HIGH	1ST HIGH VALUE IS	1.87216c ON 14120524: AT ( 421195.66, 3753651.65, 140.25, 391.99, 0.00)	DC	
YR2029	HIGH	1ST HIGH VALUE IS	1.87216c ON 14120524: AT ( 421195.66, 3753651.65, 140.25, 391.99, 0.00)	DC	

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*** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
  
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# Model Output - School Receptors Unit Emission Rates (1 g/s)

\*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* Construction HRA  
\*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\* Brea 265  
  
\*\*\* MODELOPTs:    NonDEFAULT    CONC    FLAT and    ELEV    URBAN    ADJ\_U\*

\*\*\*                    02/08/22  
\*\*\*                    10:02:13  
                      PAGE 311

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of                    0 Fatal Error Message(s)  
A Total of                    2 Warning Message(s)  
A Total of                    2285 Informational Message(s)  
  
A Total of                    43848 Hours Were Processed  
  
A Total of                    1588 Calm Hours Identified  
  
A Total of                    697 Missing Hours Identified ( 1.59 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
                      \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186    3836            MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used            0.50  
ME W187    3836            MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

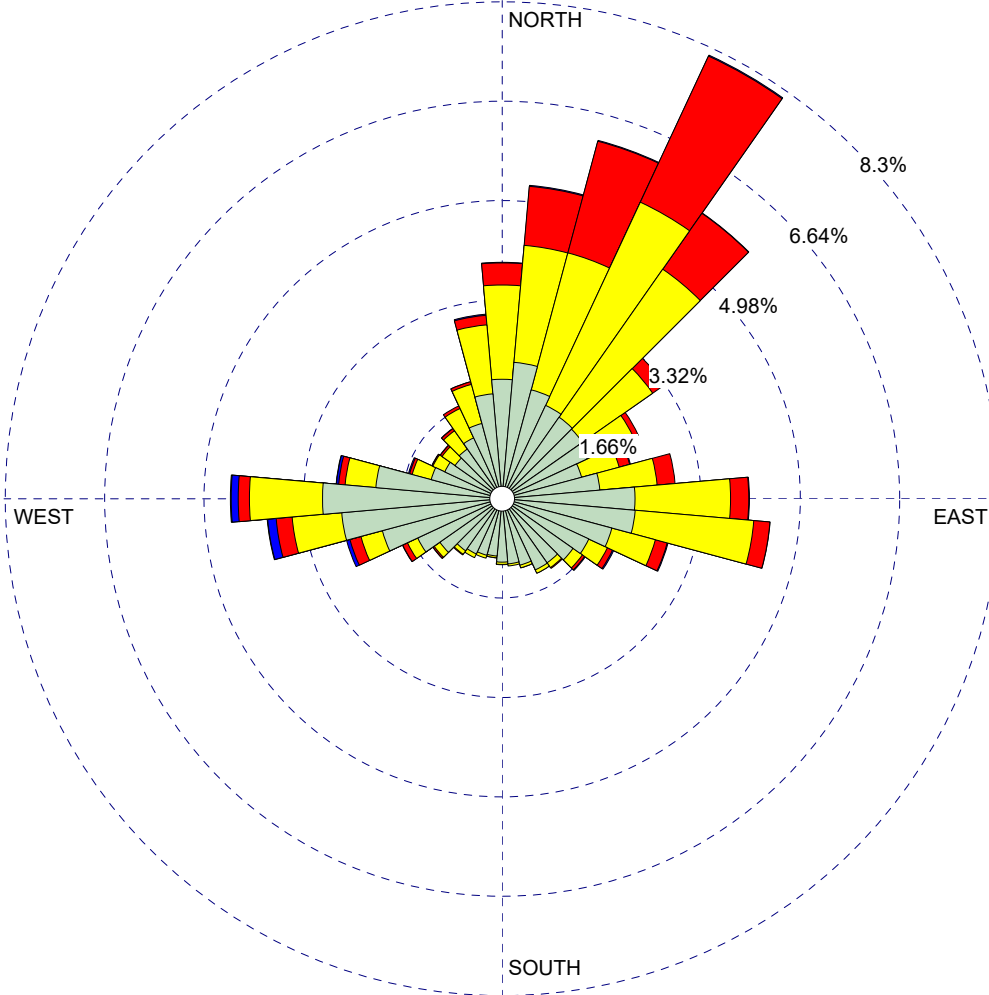
\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

WIND ROSE PLOT:

Station #

DISPLAY:

Wind Speed  
Flow Vector (blowing to)



WIND SPEED  
(Knots)

- >= 21.58
- 17.11 - 21.58
- 11.08 - 17.11
- 7.00 - 11.08
- 4.08 - 7.00
- 0.97 - 4.08
- Calms: 3.62%

COMMENTS:

DATA PERIOD:

**Start Date: 1/1/2012 - 00:00**  
**End Date: 12/31/2016 - 23:59**

COMPANY NAME:

MODELER:

CALM WINDS:

**3.62%**

TOTAL COUNT:

**43471 hrs.**

AVG. WIND SPEED:

**3.93 Knots**

DATE:

**2/17/2022**

PROJECT NO.:

# Appendix C. Construction Risk Calculations

**Table C1**  
**Residential Concentrations for Construction Risk Calculations**

Contaminant (a)	Source (b)	Model Output <sup>1</sup> ( $\mu\text{g}/\text{m}^3$ ) (c)	Emission Rates <sup>2</sup> (g/s) (d)	MEIR Conc. ( $\mu\text{g}/\text{m}^3$ ) (e)	Total MEIR Conc. Annual Average ( $\mu\text{g}/\text{m}^3$ ) (f)	
<b>Residential Receptors</b>						
DPM	2023	On-Site	0.24	2.74E-02	6.63E-03	6.65E-03
		Truck Route	0.21	8.47E-05	1.77E-05	
	2024	On-Site	2.68	2.62E-02	7.03E-02	7.03E-02
		Truck Route	0.21	1.48E-04	3.09E-05	
	2025	On-Site	0.24	2.80E-02	6.78E-03	6.81E-03
		Truck Route	0.21	1.50E-04	3.14E-05	
	2026	On-Site	2.50	1.75E-02	4.37E-02	4.38E-02
		Truck Route	0.21	5.67E-04	1.19E-04	
	2027	On-Site	2.50	3.17E-02	7.93E-02	7.94E-02
		Truck Route	0.21	3.81E-04	7.98E-05	
	2028	On-Site	2.44	1.20E-02	2.93E-02	2.93E-02
		Truck Route	0.21	3.92E-05	8.21E-06	
	2029	On-Site	2.44	8.42E-03	2.05E-02	2.05E-02
		Truck Route	0.21	3.84E-05	8.05E-06	
	2030	On-Site	2.44	2.65E-03	6.47E-03	6.48E-03
		Truck Route	0.21	3.92E-05	8.22E-06	
	Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations					
	<b>Residential Receptors - Mitigated Run: Tier 4 Engines for eq. &gt; 50 HP (Phases 1 &amp; 2) - MM AQ-1 and MM AQ-13<sup>3</sup></b>					
DPM	2023	On-Site	0.24	1.71E-03	4.14E-04	4.32E-04
		Truck Route	0.21	8.47E-05	1.77E-05	
	2024	On-Site	2.68	4.95E-03	1.33E-02	1.33E-02
		Truck Route	0.21	1.48E-04	3.09E-05	
	2025	On-Site	0.24	5.30E-03	1.28E-03	1.32E-03
		Truck Route	0.21	1.50E-04	3.14E-05	
	2026	On-Site	2.50	1.75E-02	4.37E-02	4.38E-02
		Truck Route	0.21	5.67E-04	1.19E-04	
	2027	On-Site	2.50	3.17E-02	7.93E-02	7.94E-02
		Truck Route	0.21	3.81E-04	7.98E-05	
	2028	On-Site	2.44	1.20E-02	2.93E-02	2.93E-02
		Truck Route	0.21	3.92E-05	8.21E-06	
	2029	On-Site	2.44	8.42E-03	2.05E-02	2.05E-02
		Truck Route	0.21	3.84E-05	8.05E-06	
	2030	On-Site	2.44	2.65E-03	6.47E-03	6.48E-03
		Truck Route	0.21	3.92E-05	8.22E-06	
					0.00E+00	0.00E+00
					0.00E+00	0.00E+00
Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations						

Maximum Exposed Individual Resident (MEIR) UTM coordinates: 422290.39E, 3753829.08N

<sup>1</sup> Model Output (Appendix B) at the MEIR based on unit emission rates for sources (1 g/s).

<sup>2</sup> Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions).

**Table C2  
Quantification of Health Risks for Off-site Residents  
Construction Emissions**

Source (a)	MEIR Conc. (µg/m <sup>3</sup> ) (b)	Weight Fraction (c)	Contaminant (d)	URF (µg/m <sup>3</sup> ) <sup>-1</sup> (e)	CPF (mg/kg/day) <sup>-1</sup> (f)	Dose (by age bin)					Carcinogenic Risks (by age bin)					Total Cancer Risk per million (r)	Chronic Hazards <sup>1</sup>										
						3rd Trimester (mg/kg-day) (g)	0 < 2 years (mg/kg-day) (h)	2 < 9 years (mg/kg-day) (i)	2<16 years (mg/kg-day) (j)	16<30 years (mg/kg-day) (k)	3rd Trimester per million (m)	0 < 2 years per million (n)	2 < 9 years per million (o)	2<16 years per million (p)	16<30 years per million (q)		Chronic REL (µg/m <sup>3</sup> ) (s)	RESP (t)									
<b>Residential Receptors</b>																											
2023	6.65E-03	1.00E+00	DPM	3.0E-04	1.1E+00	2.30E-06	6.95E-06					7.33E-02	1.50E-01				2.23E-01	5.0E+00	1.33E-03								
2024	7.03E-02	1.00E+00					7.35E-05				9.37E+00									9.37E+00							
2025	6.81E-03	1.00E+00					7.12E-06	5.62E-06												7.54E-01	3.08E-02						
2026	4.38E-02	1.00E+00						3.62E-05													1.17E+00						
2027	7.94E-02	1.00E+00						6.56E-05													2.12E+00						
2028	2.93E-02	1.00E+00						2.42E-05													7.85E-01						
2029	2.05E-02	1.00E+00						1.70E-05													5.50E-01						
2030	6.48E-03	1.00E+00						5.35E-06													7.24E-02						
<b>Total</b>																<b>15.1</b>		<b>0.053</b>									
<b>Residential Receptors - Mitigated Run: Tier 4 Interim Engines for eq. &gt; 50 HP (Remediation and Phases 1 &amp; 2) - MM AQ-1</b>																											
2023	4.32E-04	1.00E+00	DPM	3.0E-04	1.1E+00	1.50E-07	4.52E-07					4.77E-03	9.74E-03				0.01	5.0E+00	8.64E-05								
2024	1.33E-02	1.00E+00					1.39E-05													1.77E+00							
2025	1.32E-03	1.00E+00					1.37E-06	1.09E-06													1.46E-01	5.95E-03					
2026	4.38E-02	1.00E+00						3.62E-05													0.00E+00	1.17E+00					
2027	7.94E-02	1.00E+00						6.56E-05														2.12E+00					
2028	2.93E-02	1.00E+00						2.42E-05														7.85E-01					
2029	2.05E-02	1.00E+00						1.70E-05														5.50E-01					
2030	6.48E-03	1.00E+00						5.35E-06														7.24E-02					
	0.00E+00	1.00E+00																									
<b>Total</b>																<b>6.6</b>		<b>0.039</b>									

Maximum Exposed Individual Resident (MEIR) UTM coordinates: 422290.39E, 3753829.08N

	OEHHA age bin exposure year(s)	3rd Trimester 2023	0 < 2 years 2023-2025	2 < 9 years 2025-2030	2<16 years	16<30 years	exposure durations (year) <sup>3</sup>																	
							Construction Year	3rd Trimester	0 < 2 years	2 < 9 years	9<16 years		16<30 years											
														2023	2024	2025	2026	2027	2028	2029	2030			
Dose Exposure Factors: requery (days/year)		350	350	350	350	350																		
inhalation rate (L/kg-day) <sup>2</sup>		361	1090	861	745	335																		
inhalation absorption factor		1	1	1	1	1																		
conversion factor (mg/µg; m <sup>3</sup> /L)		1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06																		
Risk Calculation Factors: age sensitivity factor		10	10	3	3	1																		
averaging time (years)		70	70	70	70	70																		
per million		1.0E+06	1.0E+06	1.0E+06	1.0E+06	1.0E+06																		
fraction of time at home		0.85	0.85	0.72	0.72	0.73																		
							<b>6.84</b>	0.25	2.00	4.59	0.00	0.00												6.84

<sup>1</sup> Chronic Hazards for DPM using the chronic reference exposure level (REL) for the Respiratory Toxicological Endpoint.

<sup>2</sup> Inhalation rate taken as the 95th percentile breathing rates (OEHHA, 2015).

<sup>3</sup> Construction durations determined for each year to adjust receptor exposures to the exposure durations for each construction year (see App A - Construction Emissions).



**Table C3**  
**Olinda ES Student MER Concentrations for Construction Risk Calculations**

Contaminant ( a )	Source ( b )		Model Output <sup>1</sup> ( $\mu\text{g}/\text{m}^3$ ) ( c )	Emission Rates <sup>2</sup> (g/s) ( d )	MER Conc. ( $\mu\text{g}/\text{m}^3$ ) ( e )	Total MER Conc. Annual Average ( $\mu\text{g}/\text{m}^3$ ) ( f )
<b>Olinda Elementary School Student</b>						
DPM	2023	On-Site	0.70	2.74E-02	1.93E-02	1.93E-02
		Truck Route	0.24	8.47E-05	2.00E-05	
	2024	On-Site	0.82	2.62E-02	2.15E-02	2.16E-02
		Truck Route	0.24	1.48E-04	3.49E-05	
	2025	On-Site	0.70	2.80E-02	1.97E-02	1.97E-02
		Truck Route	0.24	1.50E-04	3.55E-05	
	2026	On-Site	0.77	1.75E-02	1.35E-02	1.36E-02
		Truck Route	0.24	5.67E-04	1.34E-04	
	2027	On-Site	0.77	3.17E-02	2.44E-02	2.45E-02
		Truck Route	0.24	3.81E-04	9.01E-05	
	2028	On-Site	0.12	1.20E-02	1.41E-03	1.42E-03
		Truck Route	0.24	3.92E-05	9.27E-06	
	2029	On-Site	0.12	8.42E-03	9.89E-04	9.98E-04
		Truck Route	0.24	3.84E-05	9.09E-06	
	2030	On-Site	0.12	2.65E-03	3.12E-04	3.21E-04
		Truck Route	0.24	3.92E-05	9.28E-06	
Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations						

Maximum Exposed Receptor (MER) UTM coordinates: 421195.66E, 3753651.65N

<sup>1</sup> Model Output (Appendix C) at the MER based on unit emission rates for sources (1 g/s).

<sup>2</sup> Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions).

**Table C4**  
**Quantification of Health Risks for Off-site Olinda ES Student**  
**Construction Emissions**

Source (a)	MER Conc. ( $\mu\text{g}/\text{m}^3$ ) (b)	Weight Fraction (c)	Contaminant (d)	URF ( $\mu\text{g}/\text{m}^3$ ) <sup>-1</sup> (e)	CPF ( $\text{mg}/\text{kg}/\text{day}$ ) <sup>-1</sup> (f)	Dose (by age bin)	Carcinogeni c Risks (by age bin)	Total Cancer Risk per million (i)	Chronic Hazards <sup>1</sup>		
	2<16 years ( $\text{mg}/\text{kg}/\text{day}$ ) (g)	2<16 years per million (h)				Chronic REL ( $\mu\text{g}/\text{m}^3$ ) (j)	RESP (k)				
<b>Olinda Elementary School Student</b>											
2023	1.93E-02	1.00E+00	DPM	3.0E-04	1.1E+00	4.94E-06	9.33E-02	9.33E-02	5.0E+00	3.86E-03	
2024	2.16E-02	1.00E+00				5.53E-06	2.49E-01	2.49E-01			4.31E-03
2025	1.97E-02	1.00E+00				5.06E-06	2.28E-01	2.28E-01			3.95E-03
2026	1.36E-02	1.00E+00				3.48E-06	1.57E-01	1.57E-01			2.72E-03
2027	2.45E-02	1.00E+00				6.28E-06	2.83E-01	2.83E-01			4.90E-03
2028	1.42E-03	1.00E+00				3.65E-07	1.64E-02	1.64E-02			2.84E-04
2029	9.98E-04	1.00E+00				2.56E-07	1.15E-02	1.15E-02			2.00E-04
2030	3.21E-04	1.00E+00				8.23E-08	1.55E-03	1.55E-03			6.42E-05
								<b>1.039</b>	<b>0.020</b>		

Maximum Exposed Receptor (MER) UTM coordinates: 421195.66E, 3753651.65N

		2 < 16 years		exposure durations (year) <sup>5</sup>
	OEHHA age bin <sup>2</sup>		Construction Year	2 < 16 years
	exposure year(s)	2023-2030	2023	0.42
Dose Exposure Factors:	exposure frequency (days/year) <sup>3</sup>	180	2024	1.00
	8-hour inhalation rate (L/kg-day) <sup>4</sup>	520	2025	1.00
	inhalation absorption factor	1	2026	1.00
	conversion factor (mg/ $\mu\text{g}$ ; $\text{m}^3/\text{L}$ )	1.0E-06	2027	1.00
			2028	1.00
Risk Calculation Factors:	age sensitivity factor	3	2029	1.00
	averaging time (years)	70	2030	0.42
	per million	1.0E+06		
				6.84

<sup>1</sup> Chronic Hazards for DPM using the chronic reference exposure level (REL) for the Respiratory Toxicological Endpoint.

<sup>2</sup> Olinda Elementary School includes grade levels from preschool to the 6th grade.

<sup>3</sup> Office of Environmental Health Hazard Assessment. 2004, February. Guidance for School Site Risk Assessment Pursuant to Health and Safety Code Section 901(f): Guidance for Assessing Exposures and Health Risks at Existing and Proposed School Sites.

<sup>4</sup> Inhalation rate taken as the 8-hour 95th percentile breathing rates, Moderate Activity (OEHHA, 2015).

<sup>5</sup> Construction durations determined for each year to adjust receptor exposures to the exposure durations for each construction year (see App A - Construction Emission

**Table C5**  
**North Hills Preschool Student MER Concentrations for Construction Risk**  
**Calculations**

Contaminant ( a )	Source ( b )	Model Output <sup>1</sup> ( $\mu\text{g}/\text{m}^3$ ) ( c )	Emission Rates <sup>2</sup> (g/s) ( d )	MER Conc. ( $\mu\text{g}/\text{m}^3$ ) ( e )	Total MER Conc. Annual Average ( $\mu\text{g}/\text{m}^3$ ) ( f )	
<b>Daycare Student</b>						
DPM	2023	On-Site	0.13	2.74E-02	3.53E-03	3.62E-03
		Truck Route	1.02	8.47E-05	8.62E-05	
	2024	On-Site	0.19	2.62E-02	4.89E-03	5.04E-03
		Truck Route	1.02	1.48E-04	1.50E-04	
	2025	On-Site	0.13	2.80E-02	3.61E-03	3.76E-03
		Truck Route	1.02	1.50E-04	1.53E-04	
	2026	On-Site	0.13	1.75E-02	2.19E-03	2.77E-03
		Truck Route	1.02	5.67E-04	5.77E-04	
	2027	On-Site	0.13	3.17E-02	3.97E-03	4.36E-03
		Truck Route	1.02	3.81E-04	3.88E-04	
	2028	On-Site	0.06	1.20E-02	6.94E-04	7.34E-04
		Truck Route	1.02	3.92E-05	3.99E-05	
	2029	On-Site	0.06	8.42E-03	4.86E-04	5.25E-04
		Truck Route	1.02	3.84E-05	3.91E-05	
	2030	On-Site	0.06	2.65E-03	1.53E-04	1.93E-04
		Truck Route	1.02	3.92E-05	3.99E-05	
Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations						

Maximum Exposed Receptor (MER) UTM coordinates: 420945.89E, 3753399.73N

<sup>1</sup> Model Output (Appendix C) at the MER based on unit emission rates for sources (1 g/s).

<sup>2</sup> Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions).

**Table C6**  
**Quantification of Health Risks for Off-site North Hills Preschool Student**  
**Construction Emissions**

Source (a)	MER Conc. ( $\mu\text{g}/\text{m}^3$ ) (b)	Weight Fraction (c)	Contaminant (d)	URF ( $\mu\text{g}/\text{m}^3$ ) <sup>-1</sup> (e)	CPF ( $\text{mg}/\text{kg}/\text{day}$ ) <sup>-1</sup> (f)	Dose (by age bin)		Carcinogenic Risks (by age bin)		Total Cancer Risk per million (r)	Chronic Hazards <sup>1</sup>				
						0 < 2 years ( $\text{mg}/\text{kg}/\text{day}$ ) (j)	2 < 16 years ( $\text{mg}/\text{kg}/\text{day}$ ) (k)	0 < 2 years per million (p)	2 < 16 years per million (q)		Chronic REL ( $\mu\text{g}/\text{m}^3$ ) (s)	RESP (t)			
<b>Daycare Student</b>															
2023	3.62E-03	1.00E+00	DPM	3.0E-04	1.1E+00	2.97E-06		1.87E-01		1.87E-01	5.0E+00	7.23E-04			
2024	5.04E-03	1.00E+00				4.15E-06		6.22E-01		6.22E-01		1.01E-03			
2025	3.76E-03	1.00E+00				1.34E-06	1.34E-06	1.17E-01	2.53E-02	1.42E-01		7.52E-04			
2026	2.77E-03	1.00E+00					9.85E-07		4.43E-02	4.43E-02		5.53E-04			
2027	4.36E-03	1.00E+00					1.55E-06		6.99E-02	6.99E-02		8.72E-04			
2028	7.34E-04	1.00E+00					2.62E-07		1.18E-02	1.18E-02		1.47E-04			
2029	5.25E-04	1.00E+00					1.87E-07		8.42E-03	8.42E-03		1.05E-04			
2030	1.93E-04	1.00E+00					6.88E-08		1.29E-03	1.29E-03		3.86E-05			
<b>Total</b>										<b>1.087</b>		<b>0.004</b>			

Maximum Exposed Receptor (MER) UTM coordinates: 420945.89E, 3753399.73N

	OEHHA age bin <sup>2</sup> exposure year(s)	0 < 2 years 2023-2025	2 < 16 years 2025-2030	exposure durations (year) <sup>5</sup>	
				Construction Year	0 < 2 years 2 < 16 years
Dose Exposure Factors:	exposure frequency (days/year) <sup>3</sup>	250	250	2023	0.42
	8-hour inhalation rate (L/kg-day) <sup>4</sup>	1200	520	2024	1.00
	inhalation absorption factor	1	1	2025	0.58
	conversion factor ( $\text{mg}/\mu\text{g}; \text{m}^3/\text{L}$ )	1.0E-06	1.0E-06	2026	1.00
				2027	1.00
				2028	1.00
				2029	1.00
				2030	0.42
		<b>6.84</b>		2.00	4.84

<sup>1</sup> Chronic Hazards for DPM using the chronic reference exposure level (REL) for the Respiratory Toxicological Endpoint.

<sup>2</sup> North Hills Preschool accommodates children 6 weeks to 5 years old.

<sup>3</sup> Based on worker exposure duration (Office of Environmental Health Hazard Assessment. 2015, February. Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk As:

<sup>4</sup> Inhalation rate taken as the 8-hour 95th percentile breathing rates, Moderate Activity (Office of Environmental Health Hazard Assessment. 2015, February. Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments).

<sup>5</sup> Construction durations determined for each year to adjust receptor exposures to the exposure durations for each construction year (see App A - Construction Emissions).

## 8. Energy Demand Calculations

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## Building Energy Demand Worksheet

Land Use	Electricity (kWh/yr)	Natural Gas		
		Building Envelope (kBtu/yr)	Fireplace (kBtu/yr) <sup>1</sup>	Total (kiloBtu/yr)
LDR-Single Family	3,518,140	10,754,000	2,025,000	12,779,000
MDR-Condo/Townhouse	3,141,010	10,728,500	2,925,000	13,653,500
Surface Parking Lot	22,680	0	0	0
<b>Total</b>	<b>6,681,830</b>	<b>21,482,500</b>	<b>4,950,000</b>	<b>26,432,500</b>

Land Use	Number of DU	Hours Per Day	Days Per Year
LDR - Single Family	450	3	25
MDR - Condo/Townhouse	650	3	25
<b>Total</b>	<b>1,100</b>	<b>n/a</b>	<b>n/a</b>

Source: CalEEMod Version 2020.4.0.

Notes: kWh/yr=kilowatt hour per year; kBtu/yr=kilo-British Thermal Unit per year.

<sup>1</sup> Assumes all units would have a natural gas fireplace. Total natural gas usage based on the number of fireplaces, a rate of 60,000 BTU/hour/fireplace, 25 days of use per year, and 3 hours per day.

Natural Gas Amount from Natural Gas Fireplaces = (# of Natural Gas Fireplaces x # of Hours of Fireplace Operation/Day x # of Days of Fireplace Operation/Year x 60,000 BTU/hr/fireplace) ÷ 1,000 BTU/kBtu

**Number of Natural Gas Fireplaces:** 1,100 DUs

**Number of Hours of Fireplace Operation/Day:** 3 hrs/day (CalEEMod default)

**Number of Days of Operation/Yr:** 25 days/yr (CalEEMod default)

**Average Heating Rate:**\* 60,000 BTU/hr/fireplace

\*Based on CalEEMod methodology

## Construction-Related Fuel/Energy Usage

### CONSTRUCTION WORKER COMMUTE

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2023	39,124	1,484	90	2	1,593	587
2024	624,260	23,294	1,364	38	29,687	10,939
2025	953,274	33,850	1,989	52	67,350	24,900
2026	2,522,104	91,020	5,001	137	149,338	55,070
2027	2,682,760	92,341	4,892	127	218,075	80,614
2028	247,935	8,406	423	11	21,380	7,904
2029	264,748	8,853	423	11	24,102	8,912
2030	129,231	4,267	194	5	12,378	4,578
<b>Total</b>	<b>7,463,437</b>	<b>263,515</b>	<b>14,377</b>	<b>382</b>	<b>523,904</b>	<b>193,504</b>

### CONSTRUCTION VENDOR TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2023	2,479	482	15,671	2,243
2024	5,307	1,028	34,896	4,954
2025	30,718	5,913	204,521	28,571
2026	38,113	7,258	264,963	36,304
2027	24,401	4,646	177,198	24,252
2028	2,701	511	21,311	2,900
2029	2,485	467	20,630	2,776
2030	1,046	195	8,697	1,150
<b>Total</b>	<b>107,249</b>	<b>20,501</b>	<b>747,888</b>	<b>103,149</b>

### CONSTRUCTION TRUCK HAUL TRIPS

Year	Gas		Diesel	
	VMT	Gallons	VMT	Gallons
2023	0	0	170,250	28,505
2024	0	0	164,025	27,183
<b>Total</b>	<b>0</b>	<b>0</b>	<b>334,275</b>	<b>55,688</b>

### CONSTRUCTION OFF-ROAD EQUIPMENT

Year	Gasoline gallons	Diesel gallons
2023	0	34,630
2024	6,932	76,534
2025	6,964	126,954
2026	10,816	58,992
2027	9,454	131,750
2028	8,449	43,575
2029	11,546	23,120
2030	6,964	9,639
<b>Total</b>	<b>61,124</b>	<b>505,194</b>



**CONSTRUCTION TOTAL**

Year	Gas		Diesel		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	kWh
2023	41,603	1,966	186,011	65,381	1,593	587
2024	629,567	31,253	200,286	108,708	29,687	10,939
2025	983,992	46,728	206,510	155,577	67,350	24,900
2026	2,560,217	109,094	269,964	95,433	149,338	55,070
2027	2,707,161	106,441	182,090	156,129	218,075	80,614
2028	250,636	17,366	21,734	46,485	21,380	7,904
2029	267,233	20,865	21,054	25,907	24,102	8,912
2030	130,277	11,427	8,892	10,794	12,378	4,578
<b>Total</b>	<b>7,570,686</b>	<b>345,140</b>	<b>1,096,540</b>	<b>664,413</b>	<b>523,904</b>	<b>193,504</b>

## Operation-Related Vehicle Fuel/Energy Usage

### PROJECT LAND USE COMMUTE

Vehicle Type	Gas		Diesel		CNG		Electricity	
	VMT	Gallons	VMT	Gallons	VMT	Gallons	VMT	kWh
All Vehicles	28,563,135	955,438	541,078	30,213	4,356	380	3,213,615	1,084,548
<b>Total</b>	<b>28,563,135</b>	<b>955,438</b>	<b>541,078</b>	<b>30,213</b>	<b>4,356</b>	<b>380</b>	<b>3,213,615</b>	<b>1,084,548</b>

Off-Road Construction Equipment Fuel Usage Worksheet

Year	Total Gasoline	Total Diesel Gallons	Total Natural Gas
2023	0	34,630	0
2024	6,932	76,534	0
2025	6,964	126,954	0
2026	10,816	58,992	0
2027	9,454	131,750	0
2028	8,449	43,575	0
2029	11,546	23,120	0
2030	6,964	9,639	0
<b>Total</b>	<b>61,124</b>	<b>505,194</b>	<b>0</b>

Equipment Type <sup>1</sup>	Number of Equipment <sup>1</sup>		OFFROAD2017 Horsepower Category	Fuel Type	Working days <sup>1</sup>	Hours Per Day	Total Hours of Operation	Gasoline Gal/Hr <sup>2</sup>	Total Gasoline gallons	Diesel Gal/Hr <sup>2</sup>	Total Diesel gallons	Natural Gas Gal/Hr <sup>2</sup>	Total Natural Gas gallons
	Equipment	Horsepower											
<b>2023</b>													
<b>West Rem Area - Site Preparation</b>													
Rubber Tired Dozers	3	247	300	Diesel	6	8	144	0.00	0	4.47	644	0.00	0
Tractors/Loaders/Backhoes	4	97	100	Diesel	6	8	192	0.00	0	1.59	306	0.00	0
<b>West Rem Area - Rough Grading</b>													
Excavators	2	158	175	Diesel	17	8	272	0.00	0	2.89	785	0.00	0
Graders	1	187	300	Diesel	17	8	136	0.00	0	4.55	618	0.00	0
Rubber Tired Dozers	1	247	300	Diesel	17	8	136	0.00	0	4.47	608	0.00	0
Scrapers	2	367	600	Diesel	17	8	272	0.00	0	10.55	2,871	0.00	0
Tractors/Loaders/Backhoes	2	97	100	Diesel	17	8	272	0.00	0	1.59	433	0.00	0
<b>Phase 1 - Site Preparation</b>													
Rubber Tired Dozers	3	247	300	Diesel	46	8	1,104	0.00	0	4.47	4,935	0.00	0
Tractors/Loaders/Backhoes	4	97	100	Diesel	46	8	1,472	0.00	0	1.59	2,344	0.00	0
<b>Phase 1 - Rough Grading</b>													
Excavators	2	158	175	Diesel	63	8	1,008	0.00	0	2.89	2,909	0.00	0
Graders	1	187	300	Diesel	63	8	504	0.00	0	4.55	2,292	0.00	0
Rubber Tired Dozers	1	247	300	Diesel	63	8	504	0.00	0	4.47	2,253	0.00	0
Scrapers	2	367	600	Diesel	63	8	1,008	0.00	0	10.55	10,639	0.00	0
Tractors/Loaders/Backhoes	2	97	100	Diesel	63	8	1,008	0.00	0	1.59	1,605	0.00	0
<b>Phase 1 - Utility Trenching</b>													
Excavators	2	158	175	Diesel	30	5	300	0.00	0	2.89	866	0.00	0
Trenchers	1	78	100	Diesel	30	8	240	0.00	0	2.18	523	0.00	0
<b>TOTAL</b>								<b>0</b>	<b>0</b>	<b>2.18</b>	<b>523</b>	<b>0.00</b>	<b>0</b>

<b>2024</b>													
<b>Phase 1 - Rough Grading</b>													
Excavators	2	158	175	Diesel	28	8	448	0.00	0	2.89	1,293	0.00	0
Graders	1	187	300	Diesel	28	8	224	0.00	0	4.53	1,016	0.00	0
Rubber Tired Dozers	1	247	300	Diesel	28	8	224	0.00	0	4.63	1,037	0.00	0
Scrapers	2	367	600	Diesel	28	8	448	0.00	0	10.56	4,730	0.00	0
Tractors/Loaders/Backhoes	2	97	100	Diesel	28	8	448	0.00	0	1.59	714	0.00	0
<b>Phase 1 - Utility Trenching</b>													
Excavators	2	306	600	Diesel	50	5	500	0.00	0	6.67	3,333	0.00	0
Trenchers	1	215	300	Diesel	50	8	400	0.00	0	5.87	2,349	0.00	0
<b>Phase 1 - Fine Grading</b>													
Excavators	2	158	175	Diesel	90	8	1,440	0.00	0	2.89	4,157	0.00	0
Graders	1	187	300	Diesel	90	8	720	0.00	0	4.53	3,265	0.00	0
Rubber Tired Dozers	1	247	300	Diesel	90	8	720	0.00	0	4.63	3,334	0.00	0
Scrapers	2	367	600	Diesel	90	8	1,440	0.00	0	10.56	15,202	0.00	0
Tractors/Loaders/Backhoes	2	97	100	Diesel	90	8	1,440	0.00	0	1.59	2,294	0.00	0
<b>Phase 1 - Asphalt Paving</b>													
Pavers	2	130	175	Diesel	92	8	1,472	0.00	0	3.40	4,999	0.00	0
Paving Equipment	2	132	175	Diesel	92	8	1,472	0.00	0	2.67	3,932	0.00	0
Rollers	2	80	100	Diesel	92	8	1,472	0.00	0	1.69	2,494	0.00	0
<b>Phase 1 - Finishing/Landscaping</b>													
Tractors/Loaders/Backhoes	1	97	100	Diesel	91	8	728	0.00	0	1.59	1,160	0.00	0
<b>Phase 1 - Building Construction</b>													
Cranes	1	231	300	Diesel	167	7	1,169	0.00	0	3.27	3,823	0.00	0
Forklifts	3	89	100	Diesel	167	8	4,008	0.00	0	0.98	3,919	0.00	0
Generator Sets	1	84	100	Gasoline	167	8	1,336	5.19	6,932	0.00	0	0.00	0
Tractors/Loaders/Backhoes	3	97	100	Diesel	167	7	3,507	0.00	0	1.59	5,588	0.00	0
Welders	1	46	50	Diesel	167	8	1,336	0.00	0	1.19	1,587	0.00	0
<b>East Rem Area - Site Preparation</b>													
Rubber Tired Dozers	3	247	300	Diesel	6	8	144	0.00	0	4.63	667	0.00	0
Tractors/Loaders/Backhoes	4	97	100	Diesel	6	8	192	0.00	0	1.59	306	0.00	0
<b>East Rem Area - Rough Grading</b>													
Excavators	2	158	175	Diesel	17	8	272	0.00	0	2.89	785	0.00	0
Graders	1	187	300	Diesel	17	8	136	0.00	0	4.53	617	0.00	0
Rubber Tired Dozers	1	247	300	Diesel	17	8	136	0.00	0	4.63	630	0.00	0
Scrapers	2	367	600	Diesel	17	8	272	0.00	0	10.56	2,872	0.00	0
Tractors/Loaders/Backhoes	2	97	100	Diesel	17	8	272	0.00	0	1.59	433	0.00	0
<b>Phase 2 - Site Preparation</b>													
Rubber Tired Dozers	3	247	300	Diesel	17	8	0	0.00	0	4.63	0	0.00	0
Tractors/Loaders/Backhoes	4	97	100	Diesel	17	8	0	0.00	0	1.59	0	0.00	0
<b>TOTAL</b>								<b>6,932</b>	<b>0</b>	<b>2.18</b>	<b>76,534</b>	<b>0.00</b>	<b>0</b>

<b>2025</b>													
<b>Phase 1 - Building Construction</b>													
Cranes	1	231	300	Diesel	108	7	756	0.00	0	3.26	2,465	0.00	0
Forklifts	3	89	100	Diesel	108	8	2,592	0.00	0	0.97	2,518	0.00	0
Generator Sets	1	84	100	Gasoline	108	8	864	5.19	4,481	0.00	0	0.00	0
Tractors/Loaders/Backhoes	3	97	100	Diesel	108	7	2,268	0.00	0	1.59	3,617	0.00	0
Welders	1	46	50	Diesel	108	8	864	0.00	0	1.19	1,026	0.00	0
<b>Phase 1 - Architectural Coating</b>													
Air Compressors	1	78	100	Gasoline	90	6	540	3.75	2,027	0.00	0	0.00	0
<b>Phase 2 - Site Preparation</b>													
Rubber Tired Dozers	3	247	300	Diesel	66	8	1,584	0.00	0	4.47	7,077	0.00	0
Tractors/Loaders/Backhoes	4	97	100	Diesel	66	8	2,112	0.00	0	1.59	3,369	0.00	0
<b>Phase 2 - Rough Grading</b>													
Excavators	2	158	175	Diesel	139	8	2,224	0.00	0	2.89	6,421	0.00	0
Graders	1	187	300	Diesel	139	8	1,112	0.00	0	4.55	5,055	0.00	0
Rubber Tired Dozers	1	247	300	Diesel	139	8	1,112	0.00	0	4.47	4,968	0.00	0
Scrapers	2	367	600	Diesel	139	8	2,224	0.00	0	10.52	23,405	0.00	0
Tractors/Loaders/Backhoes	2	97	100	Diesel	139	8	2,224	0.00	0	1.59	3,547	0.00	0
<b>Phase 2 - Utility Trenching</b>													
Excavators	2	158	175	Diesel	121	8	1,936	0.00	0	2.89	5,590	0.00	0
Trenchers	1	78	100	Diesel	121	8	968	0.00	0	2.18	2,113	0.00	0
<b>Phase 2 - Fine Grading</b>													
Excavators	2	158	175	Diesel	141	8	2,256	0.00	0	2.89	6,514	0.00	0
Graders	1	187	300	Diesel	141	8	1,128	0.00	0	4.55	5,128	0.00	0
Rubber Tired Dozers	1	247	300	Diesel	141	8	1,128	0.00	0	4.47	5,040	0.00	0
Scrapers	2	367	600	Diesel	141	8	2,256	0.00	0	10.52	23,742	0.00	0
Tractors/Loaders/Backhoes	2	97	100	Diesel	141	8	2,256	0.00	0	1.59	3,598	0.00	0
<b>Phase 2 - Asphalt Paving</b>													
Pavers	2	130	175	Diesel	82	8	1,312	0.00	0	3.40	4,457	0.00	0
Paving Equipment	2	132	175	Diesel	82	8	1,312	0.00	0	2.68	3,516	0.00	0
Rollers	2	80	100	Diesel	82	8	1,312	0.00	0	1.69	2,222	0.00	0
<b>Phase 2 - Finishing/Landscaping</b>													
Tractors/Loaders/Backhoes	1	97	100	Diesel	46	8	368	0.00	0	1.59	587	0.00	0
<b>Phase 2 - Building Construction</b>													
Cranes	1	231	300	Diesel	11	7	77	0.00	0	3.26	251	0.00	0
Forklifts	3	89	100	Diesel	11	8	264	0.00	0	0.97	256	0.00	0
Generator Sets	1	84	100	Gasoline	11	8	88	5.19	456	0.00	0	0.00	0
Tractors/Loaders/Backhoes	3	97	100	Diesel	11	7	231	0.00	0	1.59	368	0.00	0
Welders	1	46	50	Diesel	11	8	88	0.00	0	1.19	104	0.00	0
<b>TOTAL</b>								<b>6,964</b>	<b>0</b>	<b>2.18</b>	<b>126,954</b>	<b>0.00</b>	<b>0</b>

<b>2026</b>													
<b>Phase 2 - Asphalt Paving</b>													
Pavers	2	130	175	diesel	61	8	976	0.00	0	3.40	3,314	0.00	0
Paving Equipment	2	132	175	diesel	61	8	976	0.00	0	2.65	2,587	0.00	0
Rollers	2	80	100	diesel	61	8	976	0.00	0	1.69	1,654	0.00	0
<b>Phase 2 - Finishing/Landscaping</b>													
Tractors/Loaders/Backhoes	1	97	100	diesel	95	8	760	0.00	0	1.60	1,213	0.00	0
<b>Phase 2 - Building Construction</b>													
Cranes	1	231	300	diesel									

<b>Phase 3 - Site Preparation</b>													
Rubber Tired Dozers	3	247	300	diesel	47	8	1,128	0.00	0	4.58	5,164	0.00	0
Tractors/Loaders/Backhoes	4	97	100	diesel	47	8	1,504	0.00	0	1.60	2,401	0.00	0
<b>Phase 3 - Rough Grading</b>													
Excavators	2	158	175	diesel	62	8	992	0.00	0	2.89	2,864	0.00	0
Graders	1	187	300	diesel	62	8	496	0.00	0	4.55	2,255	0.00	0
Rubber Tired Dozers	1	247	300	diesel	62	8	496	0.00	0	4.58	2,271	0.00	0
Scrapers	2	367	600	diesel	62	8	992	0.00	0	10.53	10,447	0.00	0
Tractors/Loaders/Backhoes	2	97	100	diesel	62	8	992	0.00	0	1.60	1,584	0.00	0
<b>TOTAL</b>										<b>10,816</b>	<b>58,992</b>	<b>0</b>	<b>0</b>
<b>2027</b>													
<b>Phase 2 - Building Construction</b>													
Cranes	1	231	300	diesel	151	7	1,057	0.00	0	3.26	3,443	0.00	0
Forklifts	3	89	100	diesel	151	8	3,624	0.00	0	0.96	3,489	0.00	0
Generator Sets	1	84	100	gasoline	151	8	1,208	5.18	6,256	0.00	0	0.00	0
Tractors/Loaders/Backhoes	3	97	100	diesel	151	7	3,171	0.00	0	1.60	5,061	0.00	0
Welders	1	46	50	diesel	151	8	1,208	0.00	0	1.19	1,433	0.00	0
<b>Phase 2 - Architectural Coating</b>													
Air Compressors	1	78	100	gasoline	142	6	852	3.75	3,198	0.00	0	0.00	0
<b>Phase 3 - Rough Grading</b>													
Excavators	2	158	175	diesel	173	8	2,768	0.00	0	2.89	7,991	0.00	0
Graders	1	187	300	diesel	173	8	1,384	0.00	0	4.56	6,308	0.00	0
Rubber Tired Dozers	1	247	300	diesel	173	8	1,384	0.00	0	4.58	6,336	0.00	0
Scrapers	2	367	600	diesel	173	8	2,768	0.00	0	10.56	29,241	0.00	0
Tractors/Loaders/Backhoes	2	97	100	diesel	173	8	2,768	0.00	0	1.60	4,418	0.00	0
<b>Phase 3 - Utility Trenching</b>													
Excavators	2	158	175	diesel	165	8	2,640	0.00	0	2.89	7,621	0.00	0
Trenchers	1	78	100	diesel	165	8	1,320	0.00	0	2.18	2,879	0.00	0
<b>Phase 3 - Fine Grading</b>													
Excavators	2	158	175	diesel	135	8	2,160	0.00	0	2.89	6,235	0.00	0
Graders	1	187	300	diesel	135	8	1,080	0.00	0	4.56	4,922	0.00	0
Rubber Tired Dozers	1	247	300	diesel	135	8	1,080	0.00	0	4.58	4,944	0.00	0
Scrapers	2	367	600	diesel	135	8	2,160	0.00	0	10.56	22,818	0.00	0
Tractors/Loaders/Backhoes	2	97	100	diesel	135	8	2,160	0.00	0	1.60	3,448	0.00	0
<b>Phase 3 - Asphalt Paving</b>													
Pavers	2	130	175	diesel	86	8	1,376	0.00	0	3.40	4,672	0.00	0
Paving Equipment	2	132	175	diesel	86	8	1,376	0.00	0	2.65	3,648	0.00	0
Rollers	2	80	100	diesel	86	8	1,376	0.00	0	1.69	2,331	0.00	0
<b>Phase 3 - Finishing/Landscaping</b>													
Tractors/Loaders/Backhoes	1	97	100	diesel	40	8	320	0.00	0	1.60	511	0.00	0
<b>TOTAL</b>										<b>9,454</b>	<b>131,750</b>	<b>0</b>	<b>0</b>
<b>2028</b>													
<b>Phase 3 - Fine Grading</b>													
Excavators	2	158	175	diesel	55	8	880	0.00	0	2.89	2,540	0.00	0
Graders	1	187	300	diesel	55	8	440	0.00	0	4.56	2,007	0.00	0
Rubber Tired Dozers	1	247	300	diesel	55	8	440	0.00	0	4.58	2,014	0.00	0
Scrapers	2	367	600	diesel	55	8	880	0.00	0	10.57	9,306	0.00	0
Tractors/Loaders/Backhoes	2	97	100	diesel	55	8	880	0.00	0	1.60	1,405	0.00	0
<b>Phase 3 - Asphalt Paving</b>													
Pavers	2	130	175	diesel	55	8	880	0.00	0	3.40	2,989	0.00	0
Paving Equipment	2	132	175	diesel	55	8	880	0.00	0	2.70	2,374	0.00	0
Rollers	2	80	100	diesel	55	8	880	0.00	0	1.70	1,492	0.00	0
<b>Phase 3 - Finishing/Landscaping</b>													
Tractors/Loaders/Backhoes	1	97	100	diesel	104	8	832	0.00	0	1.60	1,329	0.00	0
<b>Phase 3 - Building Construction</b>													
Cranes	1	231	300	diesel	204	7	1,428	0.00	0	3.26	4,662	0.00	0
Forklifts	3	89	100	diesel	204	8	4,896	0.00	0	0.96	4,679	0.00	0
Generator Sets	1	84	100	gasoline	204	8	1,632	5.18	8,449	0.00	0	0.00	0
Tractors/Loaders/Backhoes	3	97	100	diesel	204	7	4,284	0.00	0	1.60	6,841	0.00	0
Welders	1	46	50	diesel	204	8	1,632	0.00	0	1.19	1,936	0.00	0
<b>TOTAL</b>										<b>8,449</b>	<b>43,575</b>	<b>0</b>	<b>0</b>
<b>2029</b>													
<b>Phase 3 - Building Construction</b>													
Cranes	1	231	300	diesel	261	7	1,827	0.00	0	3.27	5,971	0.00	0
Forklifts	3	89	100	diesel	261	8	6,264	0.00	0	0.95	5,920	0.00	0
Generator Sets	1	84	100	gasoline	261	8	2,088	5.17	10,803	0.00	0	0.00	0
Tractors/Loaders/Backhoes	3	97	100	diesel	261	7	5,481	0.00	0	1.60	8,752	0.00	0
Welders	1	46	50	diesel	261	8	2,088	0.00	0	1.19	2,476	0.00	0
<b>Phase 3 - Architectural Coating</b>													
Air Compressors	1	78	100	gasoline	33	6	198	3.75	743	0.00	0	0.00	0
<b>TOTAL</b>										<b>11,546</b>	<b>23,120</b>	<b>0</b>	<b>0</b>
<b>2030</b>													
<b>Phase 3 - Building Construction</b>													
Cranes	1	231	300	diesel	109	7	763	0.00	0	3.27	2,494	0.00	0
Forklifts	3	89	100	diesel	109	8	2,616	0.00	0	0.94	2,456	0.00	0
Generator Sets	1	84	100	gasoline	109	8	872	5.17	4,511	0.00	0	0.00	0
Tractors/Loaders/Backhoes	3	97	100	diesel	109	7	2,289	0.00	0	1.60	3,655	0.00	0
Welders	1	46	50	diesel	109	8	872	0.00	0	1.19	1,034	0.00	0
<b>Phase 3 - Architectural Coating</b>													
Air Compressors	1	78	100	gasoline	109	6	654	3.75	2,453	0.00	0	0.00	0
<b>TOTAL</b>										<b>6,964</b>	<b>9,639</b>	<b>0</b>	<b>0</b>

<sup>1</sup> Based on information provided.

<sup>2</sup> OFFROAD2021 v.1.0.1



OFFROAD 2023

Equipment Type	Horsepower HP	Gas				Diesel				Natural Gas								
		Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr					
Air Compressors25	Air Compressors	25	8860.077211	30.32028789	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors50	Air Compressors	50	51490.55	47.8	23093.55	2.229650703	91104	109.62	89235.2	1.020942408	0	0	0	0	0	0	0	0
Air Compressors75	Air Compressors	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors100	Air Compressors	100	281093.8	154.96	74905.3	3.752655587	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors175	Air Compressors	175	34488.85	10.41	5044.3	6.837192475	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors300	Air Compressors	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors600	Air Compressors	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors750	Air Compressors	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors9999	Air Compressors	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts25	Aerial Lifts	25	2578.57121	14.053630245	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts50	Aerial Lifts	50	72518.2	126.64	45749.1	1.585128451	118626.9208	473.9772312	145093.3401	0.817590392	0	0	0	0	0	0	0	0
Aerial Lifts75	Aerial Lifts	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts100	Aerial Lifts	100	130337.85	126.64	45749.1	2.848970799	117836.894	311.3621075	95363.1061	1.235665435	0	0	0	0	0	0	0	0
Aerial Lifts175	Aerial Lifts	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts300	Aerial Lifts	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts600	Aerial Lifts	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs25	Bore/Drill rigs	25	214.232159	2.259412064	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs50	Bore/Drill rigs	50	689.85	2.49	266.45	2.589041096	3070.220791	7.426357912	2674.137144	1.14811843	0	0	0	0	0	0	0	0
Bore/Drill rigs75	Bore/Drill rigs	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs100	Bore/Drill rigs	100	7880.35	11.5	1233.7	6.387573964	14606.3506	17.58874242	6701.014631	2.179722336	0	0	0	0	0	0	0	0
Bore/Drill rigs175	Bore/Drill rigs	175	2748.45	2.85	306.6	8.964285714	22425.0372	17.90143118	5732.345598	3.912017657	0	0	0	0	0	0	0	0
Bore/Drill rigs300	Bore/Drill rigs	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs600	Bore/Drill rigs	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs750	Bore/Drill rigs	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs9999	Bore/Drill rigs	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	113.1709054	1.26484849	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers175	Cement and Mortar Mixers	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers9999	Cement and Mortar Mixers	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws25	Concrete/Industrial Saws	25	3691.963332	16.59212647	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws50	Concrete/Industrial Saws	50	15771.65	9.33	5701.3	2.766325224	4650.1	5.78	3368.95	1.38028169	0	0	0	0	0	0	0	0
Concrete/Industrial Saws75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws100	Concrete/Industrial Saws	100	15388.4	5.33	3266.75	4.710614525	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws175	Concrete/Industrial Saws	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws600	Concrete/Industrial Saws	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws9999	Concrete/Industrial Saws	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes25	Cranes	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes50	Cranes	50	2292.2	2.85	1186.25	1.932307692	957.1814664	3.141689966	1388.20832	0.689508443	0	0	0	0	0	0	0	0
Cranes75	Cranes	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes100	Cranes	100	7821.95	5.67	2361.55	3.122120201	21613.63282	36.81667529	16530.64914	1.307488445	0	0	0	0	0	0	0	0
Cranes175	Cranes	175	496.4	0.22	102.2	4.857142857	66266.15434	65.77913366	30397.53103	2.179984758	0	0	0	0	0	0	0	0
Cranes300	Cranes	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes600	Cranes	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes750	Cranes	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes9999	Cranes	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors25	Crawler Tractors	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors50	Crawler Tractors	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors75	Crawler Tractors	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors100	Crawler Tractors	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors175	Crawler Tractors	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors300	Crawler Tractors	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors600	Crawler Tractors	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors750	Crawler Tractors	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors9999	Crawler Tractors	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment25	Crushing/Proc. Equipment	25	39.7904963	0.18774576	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment50	Crushing/Proc. Equipment	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment75	Crushing/Proc. Equipment	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment100	Crushing/Proc. Equipment	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment175	Crushing/Proc. Equipment	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment300	Crushing/Proc. Equipment	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment600	Crushing/Proc. Equipment	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment750	Crushing/Proc. Equipment	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment9999	Crushing/Proc. Equipment	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dumpers/Tenders25	Dumpers/Tenders	25	14022.47183	274.9994607	40372.65	0.34732602	1.250360548	0.505388251	0	0	0	0	0	0	0	0	0	0
Dumpers/Tenders100	Dumpers/Tenders	100	646.05	2.04	259.15	2.492957746	0	0	0	0	0	0	0	0	0	0	0	0
Excavators25	Excavators	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Excavators50	Excavators	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Excavators75	Excavators	75	0	0	0	0	0											



Region	Calendar Year	Vehicle Category	Model Year	Horsepower B Fuel	HC_tpd	ROG_tpd	TOC_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption Total	Activity Total	Population	Horsepower_Hours	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	100 Gasoline	8.15292E-08	9.85603E-08	1.17402E-07	1.17733E-06	3.14771E-07	3.72812E-05	6.805E-09	2.50151E-09	3.37272E-10	3.03996E-10	1.208245086	6.066181326	0.003649965	32.2448300	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	175 Gasoline	0.0001712	2.04208E-07	2.02321E-07	0.0001464	0.0001211	2.2397272E-07	0.0010963	0.0001001	2.00065E-05	1.82123E-05	7295.08474	2405.23665	37.8991731	258755.159	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	175 Gasoline	0.000638787	0.000772932	0.000919853	0.000615127	0.000843502	1.039544118	0.000309752	0.000084972	9.45022E-06	8.4758E-06	3360.56212	2383.14572	14.0848313	133874.815	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	25 Gasoline	2.69312E-06	3.23868E-06	3.87891E-06	2.93415E-06	7.49688E-07	6.79925E-05	5.44001E-08	5.00408E-08	6.19072E-06	6.26091E-06	2.48875108	76.6854444	0.003481271	66.4181647	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	25 Gasoline	0.000015402	0.000016628	0.000017623	0.000012752	0.000010625	0.000015862	2.55599E-05	2.34399E-05	4.92829E-07	3.92698E-07	160.99808	780.23679	0.545846935	5775.4978	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	300 Diesel	0.00024793	0.000299993	0.000357019	0.001586415	0.000202146	0.1296631	0.000101098	8.30102E-05	6.48888E-05	5.81234E-06	2110.64001	2110.64001	3.29393399	18209.4743	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	50 Gasoline	8.89616E-07	7.13835E-07	8.49543E-07	6.68541E-05	1.63656E-06	0.00334501	2.15631E-08	2.31501E-08	3.80388E-08	2.72722E-08	10.84084426	45.9971822	0.000572419	289.3131677	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	50 Diesel	0.00037753	0.00048611	0.001301792	0.001910056	1.20037595	0.000088986	0.00081487	1.08386E-06	9.97867E-06	38902.95243	2905.52407	51.0633423	139052.667	0.000000000	90008.7666
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	600 Diesel	0.00012761	0.00015106	0.000183939	0.000962836	0.00117021	0.38820086	5.03486E-05	4.63191E-05	3.53497E-06	3.16576E-06	2458.04841	2015.79466	1.07493107	50008.7666	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	75 Gasoline	1.58339E-06	4.65897E-06	7.68671E-06	8.02115E-06	2.4664	2.45114E-04	1.84491E-06	1.69665E-06	2.12836E-06	1.99876E-06	0.70451766	12.1231671	0.003519491	21.20355857	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	75 Diesel	0.00179395	0.00217025	0.002582777	0.008891676	0.01466283	1.22905947	0.000955005	0.000878605	1.11471E-05	1.00022E-05	39830.82631	2598.625225	36.24183666	142391.7802	
Orange (SC)	2023	Agricultural - Agricultural Tractors	Aggregate	750 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2023	Agricultural - ATVs	Aggregate	100 Gasoline	2.26242E-05	2.73752E-05	3.25788E-05	0.000734997	8.10101E-05	0.00562368	3.435E-06	3.16022E-06	4.15488E-07	3.7229E-07	1479.877152	51.3877233	1.884209977	4739.76022	
Orange (SC)	2023	Agricultural - ATVs	Aggregate	175 Gasoline	2.23929E-05	2.69941E-05	3.21235E-05	0.000848704	0.000121778	0.00518864	4.90383E-06	4.51153E-06	5.93422E-07	5.31484E-07	2112.881767	2819325265	1.636071943	67658.19767	
Orange (SC)	2023	Agricultural - ATVs	Aggregate	175 Diesel	5.36374E-08	6.49013E-08	7.72379E-08	9.48069E-07	5.81191E-07	0.000173003	2.25534E-06	2.07478E-06	1.57920E-06	1.41213E-06	6.61321302	69.45376204	0.002037686	267.465173	
Orange (SC)	2023	Agricultural - ATVs	Aggregate	25 Gasoline	0.00147878	0.00178959	0.002129009	0.01757605	0.000636321	0.06407126	5.47545E-05	5.0485E-05	5.39578E-07	5.22378E-07	2076.485187	264.1146466	11.50652787	66499.0081	
Orange (SC)	2023	Agricultural - ATVs	Aggregate	25 Diesel	3.21545E-05	3.88838E-05	4.62725E-05	0.000257313	0.000248086	0.03756375	1.0875E-05	9.93108E-06	3.41384E-07	3.06262E-07	1217.403558	284.2642628	6.62292281	52217.06482	
Orange (SC)	2023	Agricultural - ATVs	Aggregate	25 Electric	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2023	Agricultural - ATVs	Aggregate	50 Gasoline	1.54185E-05	6.21164E-05	7.40427E-05	0.002415883	0.000314278	0.06809572	1.58349E-06	7.46881E-06	6.2645E-07	5.61794E-07	223.134496	154.466559	7.42991714	71516.6467	
Orange (SC)	2023	Agricultural - ATVs	Aggregate	50 Diesel	3.35812E-05	0.00010133	0.000120357	0.000793107	0.000567426	0.11044517	2.54097E-05	2.34851E-05	1.00376E-06	9.00137E-07	3578.097547	503.136171	6.724384892	15342.70022	
Orange (SC)	2023	Agricultural - ATVs	Aggregate	75 Gasoline	1.43857E-05	1.74067E-05	2.07155E-05	0.000354448	3.94625E-05	0.01497678	1.6218E-06	1.48781E-06	1.59494E-07	1.75272E-07	696.717515	97.52339453	1.311648334	22312.24235	
Orange (SC)	2023	Agricultural - ATVs	Aggregate	175 Diesel	9.13114E-08	1.10487E-07	1.31488E-07	8.41972E-07	9.39263E-07	0.000141694	4.6728E-06	3.94018E-08	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2023	Agricultural - Bale Wagons (Self Propelled)	Aggregate	300 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2023	Agricultural - Bale Wagons (Self Propelled)	Aggregate	75 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2023	Agricultural - Combine Harvesters	Aggregate	175 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2023	Agricultural - Combine Harvesters	Aggregate	300 Diesel	3.87387E-07	4.68738E-07	5.57838E-07	2.07754E-06	4.11615E-06	0.00072858	1.85878E-07	1.71008E-07	6.62831E-09	5.93999E-09	23.61183502	40.51133449	0.004891792	1014.95431	
Orange (SC)	2023	Agricultural - Combine Harvesters	Aggregate	600 Diesel	3.16627E-05	3.83119E-05	4.55934E-05	0.000260281	0.00034762	0.00514377	1.43949E-05	1.34833E-05	9.52975E-07	3.11222E-07	2111.24324	675.989329	0.027226107	90750.95086	
Orange (SC)	2023	Agricultural - Combine Harvesters	Aggregate	750 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2023	Agricultural - Construction Equipment	Aggregate	999 Diesel	3.56027E-07	4.30784E-07	5.12669E-07	2.82163E-06	5.09495E-06	0.00066373	1.62828E-07	1.49575E-07	6.03881E-08	5.4118E-09	21.5127197	108.506459	0.0012715	924.694212	
Orange (SC)	2023	Agricultural - Construction Equipment	Aggregate	100 Diesel	7.79616E-06	9.42664E-06	1.12185E-05	6.28191E-05	7.16571E-05	0.01034664	4.6281E-06	4.25785E-06	9.40813E-08	8.4373E-08	335.3876859	87.2263004	0.02279558	14385.50144	
Orange (SC)	2023	Agricultural - Construction Equipment	Aggregate	175 Diesel	6.3544E-05	7.70213E-05	9.16176E-05	0.00044669	0.000738004	0.10684563	3.11587E-06	2.8666E-05	9.71858E-07	8.7119E-07	3462.75242	183.609261	2.25637936	16517.6086	
Orange (SC)	2023	Agricultural - Construction Equipment	Aggregate	300 Diesel	3.96537E-05	4.79925E-05	5.70475E-05	4.20449E-05	9.48222E-05	0.01403274	4.27994E-06	3.93754E-06	1.7634E-07	1.1441E-07	454.787444	111.407936	1.17097359	21686.0821	
Orange (SC)	2023	Agricultural - Construction Equipment	Aggregate	300 Diesel	1.58339E-06	2.61871E-06	3.19205E-06	2.02016E-07	0.000103616	0.000018243	1.83126E-06	1.74805E-06	4.9222E-07	4.0224E-06	15.8715E-06	151.2831661	0.00662844	483.239524	
Orange (SC)	2023	Agricultural - Construction Equipment	Aggregate	600 Diesel	4.63846E-06	5.61524E-06	6.67938E-06	3.84542E-05	4.94398E-05	0.00712431	2.25866E-06	2.07907E-06	6.56107E-08	5.88189E-08	233.808743	44.3842571	0.037041238	1114.81984	
Orange (SC)	2023	Agricultural - Construction Equipment	Aggregate	75 Diesel	1.79651E-07	2.17377E-07	2.56897E-07	1.25683E-06	1.62434E-06	0.000021629	8.54534E-08	7.86171E-08	1.82893E-09	6.52292162	133.6732802	0.000590588	279.7821799		
Orange (SC)	2023	Agricultural - Cotton Pickers	Aggregate	600 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2023	Agricultural - Forage & Silage Harvesters	Aggregate	600 Diesel	1.2938E-06	0.00000000	1.86319E-06	1.15576E-05	1.32616E-05	0.000201283	5.78976E-07	5.32649E-07	1.21085E-06	1.21085E-06	84.3049786	0.018603216	0.006852053	3623.81463	
Orange (SC)	2023	Agricultural - Forage & Silage Harvesters	Aggregate	750 Diesel	4.80464E-06	1.20287E-06	1.22349E-06	1.02465E-05	9.37154E-06	0.01378845	3.88762E-06	4.03661E-06	1.28854E-07	1.07448E-07	427.1125864	191.2046908	0.032241104	18359.26476	
Orange (SC)	2023	Agricultural - Forage & Silage Harvesters	Aggregate	999 Diesel	6.00714E-06	7.88665E-06	8.65029E-06	4.8744E-05	8.20218E-05	0.00890743	2.89472E-06	2.66314E-06	8.09666E-08	7.25292E-08	288.5612109	45.60327239	0.01668362	12403.8889	
Orange (SC)	2023	Agricultural - Forklifts	Aggregate	100 Diesel	2.1453E-05	2.59818E-05	3.08923E-05	0.000161759	0.000177625	0.002581045	1.25212E-05	1.15195E-05	2.36142E-07	2.11825E-07	842.031207	393.237087	0.00834629	36116.01726	
Orange (SC)	2023	Agricultural - Forklifts	Aggregate	175 Diesel	2.16097E-06	2.61477E-06	3.11179E-06	1.99208E-06	2.22727E-05	0.00033308	1.01539E-06	9.32504E-07	3.04965E-07	2.73398E-08	108.677749	40.9234899	0.004606071	5182.158651	
Orange (SC)	2023	Agricultural - Forklifts	Aggregate	300 Diesel	1.51833E-06	1.90257E-06	2.27981E-06	1.42026E-06	1.58216E-06	0.000018243	1.83126E-06	1.74805E-06	4.9222E-07	4.0224E-06	15.8715E-06	151.2831661	0.00662844	483.239524	
Orange (SC)	2023	Agricultural - Forklifts	Aggregate	75 Diesel	8.05495E-05	9.74648E-05	0.000115991	0.00											



Orange (SC)	2023 Airport Ground Support - Misc - Maint. Truck	Aggregate	175 Gasoline	0.000167393	0.000139968	0.000124956	0.014234966	0.001345209	0.009692192	2.9370676	2.2191105	0.4069866	5.7323306	16362.95	2774	6.18	360620
Orange (SC)	2023 Airport Ground Support - Misc - Other	Aggregate	50 Gasoline	0.000138916	0.000127775	0.000152869	0.009838669	0.000287214	0.008627636	6.793936	5.1372506	1.1993136	1.5165226	4328.9	1664.4	9.09	83220
Orange (SC)	2023 Airport Ground Support - Misc - Other	Aggregate	50 Nat Gas	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Orange (SC)	2023 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Gasoline	4.9652515	4.9595805	0	1.8995105	0.000511749	0.000407672	0.8891432	0	0	0	4766.9	1755.65	0.17	99875
Orange (SC)	2023 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Nat Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2023 Airport Ground Support - Misc - Service Truck	Aggregate	300 Gasoline	0.000856331	0.000878654	0.00094234	0.04895215	0.000521386	0.188603973	8.7683936	6.6201051	1.2150336	1.6814705	4797.5	17.72	268844	14938.8
Orange (SC)	2023 Airport Ground Support - Misc - Service Truck	Aggregate	300 Nat Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2023 Airport Ground Support - Misc - Sweeper	Aggregate	75 Diesel	1.796011464	6.188891936	6.910397608	0.000374008	3.4022652	0.0093444	6.49436287	4.9068575	7.6902316	1.3170447	0	0	0	0
Orange (SC)	2023 Airport Ground Support - Misc - Water Truck	Aggregate	175 Gasoline	1.44571105	1.12977105	1.59092105	0.00122388	0.00021546	0.003041885	2.3687506	1.7897256	0.3282377	0.4268837	1321.3	481.8	1.57	2299.5
Orange (SC)	2023 Airport Ground Support - Other	Aggregate	100 Diesel	4.13111105	4.99864105	5.94888105	0.00085429	0.000586445	0.132397657	2.59527105	2.3876505	1.0806116	0.0000000	4295.496181	2828.802263	5.828183938	24761.0759
Orange (SC)	2023 Airport Ground Support - Other	Aggregate	175 Diesel	7.90999605	9.5602105	0.000131774	0.00178947	0.000113592	0.010813988	3.8613936	3.5528905	2.8713116	0.0000000	10084.196131	3625.70372	7.566488937	58127.7409
Orange (SC)	2023 Airport Ground Support - Other	Aggregate	25 Diesel	5.39129103	6.52344107	7.76342107	1.03174105	7.61974105	0.01489438	4.4274106	3.1298608	1.37544107	1.2156608	48.2331964	1.2156608	0.204488881	1024.98881
Orange (SC)	2023 Airport Ground Support - Other	Aggregate	300 Diesel	8.04161105	9.73034105	0.000151799	0.000807645	0.000084964	0.360401453	3.47042105	3.1972805	3.3296806	2.9415506	11692.82823	3024.379643	6.339466626	67407.0462
Orange (SC)	2023 Airport Ground Support - Other	Aggregate	50 Diesel	0.00015974	0.000192386	0.000137487	0.000137487	0.000137487	0.000137487	0.000137487	0.000137487	0.000137487	0.000137487	0.000137487	0.000137487	0.000137487	0.000137487
Orange (SC)	2023 Airport Ground Support - Other	Aggregate	600 Diesel	4.94936105	5.98872105	7.12707105	0.000580891	0.0000546871	0.216012879	2.2220905	2.04432105	1.9958806	1.76323106	7008.948826	1125.050876	2.315737249	44004.5164
Orange (SC)	2023 Airport Ground Support - Other	Aggregate	75 Diesel	3.56197105	4.30975105	5.120042105	0.000191532	0.000045489	0.000126202	1.51200005	2.3197005	2.3197005	2.3197005	2988.600795	2646.200095	5.023710505	17224.1483
Orange (SC)	2023 Airport Ground Support - Passenger Stand	Aggregate	100 Diesel	2.71331107	3.28313107	3.90717107	1.22539607	1.000000000	0.000130273	1.6346607	1.5038907	1.1963807	1.06327106	4.22656382	2.087130084	0.055489138	208.1326884
Orange (SC)	2023 Airport Ground Support - Passenger Stand	Aggregate	175 Diesel	5.60044107	6.77604107	8.06405107	5.30037106	8.73623106	0.000851304	5.27727107	4.855507	7.85392109	0.94823109	27.61960841	12.27723697	0.055489138	1350.490666
Orange (SC)	2023 Airport Ground Support - Passenger Stand	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2023 Airport Ground Support - Passenger Stand	Aggregate	300 Diesel	1.2881107	2.212107	2.62346607	1.24808106	1.47598606	0.000799988	8.93022108	8.2138806	6.55870109	5.79482109	23.0347034	4.174260569	0.110978275	1137.486005
Orange (SC)	2023 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	1.0851107	1.12212107	1.15614607	1.39088106	1.12167106	0.001092937	6.27823107	5.7706706	1.66048106	1.47668106	58.6809924	6.0356877	1.052439113	2995.520667
Orange (SC)	2023 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	2.096607	2.529627	3.01047107	1.12295105	5.88452106	0.001933251	3.89558106	5.3883688	1.78676106	1.57789808	62.722200058	56.32515768	1.488203133	3097.301342
Orange (SC)	2023 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	100 Diesel	0.0000343	0.0000145	0.0000094	0.000164277	0.000093827	0.12729485	0.000039	0.0000373	0	0	4129.480957	1884.309448	1.584845013	17.79616719
Orange (SC)	2023 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	100 Diesel	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Orange (SC)	2023 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	75 Diesel	0.00000264	0.00000310	0.0000038	0.000137027	0.000644972	0.08777776	0.0000226	0.0000216	0	0	2848.108954	1884.309448	1.584845013	49513.65234
Orange (SC)	2023 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	25 Diesel	0.000285981	0.00034611	0.000411784	0.000112746	0.016384165	0.0001358	0.00013	0	0	0	5315.080974	1884.309448	6.703055	92409.87884
Orange (SC)	2023 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	50 Diesel	0.001877303	0.002271603	0.002740331	0.000727807	0.011243118	1.199324645	0.00077139	0.00073507	0	0	38906.512	42036.67889	25.471615	66971.63884
Orange (SC)	2023 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	75 Diesel	0.001012002	0.001211555	0.001414888	0.00041237	0.012197877	1.405139651	0.000721475	0.000806907	0	0	45583.21827	28761.96792	17.42794502	80529.23103
Orange (SC)	2023 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	100 Diesel	0.000134946	0.000169336	0.000195909	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336
Orange (SC)	2023 Commercial Harbor Craft - AE - Excursion	Aggregate	175 Diesel	0.000315707	0.000319888	0.00045462	0.002209955	0.000044435	1.10441255	0.00031071	0.0002718	0	0	35827.48786	14573.56994	20.409706	69248.7373
Orange (SC)	2023 Commercial Harbor Craft - AE - Excursion	Aggregate	25 Diesel	3.313105	0.0000409	0.0000474	0.0001207	0.002707277	0.0001279	0.0001517	0.00001448	0	0	736.620308	3135.15036	5.10240265	11761.97356
Orange (SC)	2023 Commercial Harbor Craft - AE - Excursion	Aggregate	300 Diesel	0.00082074	0.000994771	0.01183855	0.00036874	0.012692081	1.198657912	0.00025133	0.000049856	0	0	38884.88221	8115.264157	15.50719714	71594.161
Orange (SC)	2023 Commercial Harbor Craft - AE - Excursion	Aggregate	50 Diesel	0.00032472	0.000393086	0.000467903	0.0013836	0.00285908	0.38010944	0.00016655	0.000193978	0	0	12330.88614	1538.90132	25.51213397	20975.74862
Orange (SC)	2023 Commercial Harbor Craft - AE - Excursion	Aggregate	600 Diesel	0.000295223	0.000357196	0.000426704	0.00177359	0.000289015	0.994459312	0.00027942	0.00027912	0	0	3220.41943	4151.82369	5.10240265	10240.6275
Orange (SC)	2023 Commercial Harbor Craft - AE - Excursion	Aggregate	75 Diesel	0.000602656	0.000801097	0.000953436	0.002630943	0.006244128	0.688378471	0.000405058	0.000430843	0	0	22311.23827	18054.53379	28.06334526	403681.7764
Orange (SC)	2023 Commercial Harbor Craft - AE - Ferry-Catamaran	Aggregate	175 Diesel	0.0000568	0.0000088	0.0000062	0.000053879	0.0000062	0.24814597	0.0000664	0.0000063	0	0	8049.897461	3548.01039	2.155594069	20.0000000
Orange (SC)	2023 Commercial Harbor Craft - AE - Research Boat	Aggregate	50 Diesel	0.00000455	0.0000025	0.0000065	0.0000029	0.0000951	0.011275433	0.0000048	0.0000049	0	0	413.8887024	441.2163611	0.40625	7196.01625
Orange (SC)	2023 Commercial Harbor Craft - AE - Research Boat	Aggregate	75 Diesel	0.00000328	0.0000039	0.0000043	0.000001532	0.0000049	0.11792662	0.0000006	0.0000007	0	0	3883.82029	421.263015	0.40625	10141.22754
Orange (SC)	2023 Commercial Harbor Craft - AE - Work Boat	Aggregate	50 Diesel	3.19105	3.86105	4.59105	0.00032107	0.000643059	0.08252439	3.56105	3.4105	0	0	2690.130137	4401.616065	6.130465	46771.55469
Orange (SC)	2023 Commercial Harbor Craft - AE - Work Boat	Aggregate	800 Diesel	0.000204316	0.000247343	0.000294359	0.00157123	0.004789288	0.796780953	0.000188794	0.000180487	0	0	2847.85184	2200.807461	3.088023	49905.3438
Orange (SC)	2023 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	300 Diesel	0.00085038	0.01034358	0.0123107	0.00373453	0.011072501	0.921483896	0.00041425	0.000393234	0	0	2989.25944	9217.19834	9.500724149	57814.60749
Orange (SC)	2023 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	600 Diesel	0.00030834	0.00034514	0.00423453	0.01240466	0.015229399	4.70972488	0.000153886	0.000148564	0	0	12563.61481	2848.54265	28.30217059	299301.424
Orange (SC)	2023 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	100 Diesel	0.00013759	0.000169336	0.000195909	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336
Orange (SC)	2023 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	175 Diesel	0.00013759	0.000169336	0.000195909	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336	0.000169336
Orange (SC)	2023 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	300 Diesel	0.000754538	0.000913192	0.00108766	0.003459842	0.000209553	2.02757316	0.00041287	0.000394112	0	0	65774.99183	15994.17666	13.0003412	127345.1037
Orange (SC)	2023 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	600 Diesel	0.00494376	0.005981928	0.00711904	0.02125775	0.094780166	8.659818552	0.00262405	0.002505146	0	0	280927.541	46383.11268	38.87772317	543295.814
Orange (SC)	2023 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	800 Diesel	0.00085038	0.01034358	0.0123107	0.00373453	0.011072501	0.921483896	0.00041425	0.000393234	0	0	2989.25944	9217.19834	9.500724149	57814.60749
Orange (SC)	2023 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	999 Diesel	0.004854852	0.005981928	0.00711904	0.02125775	0.094780166	8.659818552	0.00262405	0.002505146	0	0	280927.541	46383.11268	38.87772317	543295.814
Orange (SC)	2023 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	100 Diesel	0.000241301	0.000294359	0.000347474	0.000856555	0.00618818	0.124247803	0.000157479	0.000148992	0	0	4030.642128	5355.137326	3.606973077	70078.17335
Orange (SC)	2023 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	100 Diesel	0.00145677	0.00173464	0.002157388	0.006468758	0.038820511	4.86426541	0.00006578	0.000039151	0	0	157819.8878	19597.08841	80.0200012	305714.725
Orange (SC)	2023 Commercial Harbor Craft - ME - Excursion	Aggregate	100 Diesel	0.000106	0.0001284	0.00015758	0.000428079	0.001093232	0.13477155	7.5476107	7.216105	0	0	4370.920306	3610.07696	12.75606513	7739.85866
Orange (SC)	2023 Commercial Harbor Craft - ME - Excursion	Aggregate	300 Diesel	0.000315707	0.000319888	0.00045462	0.002209955	0.000044435	1.10441255	0.00031071	0.0002718	0	0	35827.48786	1457		







Orange (SC)	2023 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	15 Gasoline	0.00069952	7.69779E-05	7.06515E-05	0.003959789	2.88145E-05	0.008281922	1.75996E-07	1.32974E-07	1.41606E-07	1.95469E-07	552.196495	0	0	55.59085115	0	
Orange (SC)	2023 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	20.57190433	0	
Orange (SC)	2023 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	2 Gasoline	2.21688E-05	2.43952E-05	2.23903E-05	0.002019171	2.43667E-06	0.000643295	1.19934E-06	9.06168E-07	1.1937E-08	1.64774E-08	43.99108711	0	0	19.23071591	0	
Orange (SC)	2023 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	7.11650283	0	
Orange (SC)	2023 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	25 Diesel	1.97215E-06	0.00002835	2.37027E-06	8.0092121E-07	1.49896E-05	0.00196672	5.04083E-07	3.80862E-07	1.88009E-08	1.61935E-08	64.43503781	0	0	0.15348711	0	
Orange (SC)	2023 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	5 Gasoline	8.24346E-05	9.07142E-05	8.3259E-05	0.00398662	3.00309E-05	0.008750374	1.70969E-07	1.29177E-07	1.48319E-07	2.04735E-07	570.7557591	0	0	88.3974835	0	
Orange (SC)	2023 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	37.7229984	0	
Orange (SC)	2023 Lawn and Garden - Misc - Lawn Mowers	Aggregate	15 Gasoline	0.000158054	0.00017395	0.000159634	0.010169343	7.03068E-06	0.02041780	2.37665E-06	1.79568E-06	3.61851E-07	4.9949E-07	1378.15157	0	0	150.4537386	0	
Orange (SC)	2023 Lawn and Garden - Misc - Lawn Mowers	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	76.4032609	0	
Orange (SC)	2023 Lawn and Garden - Misc - Lawn Mowers	Aggregate	2 Gasoline	9.43188E-06	1.03792E-05	5.9262E-06	0.000217862	4.50128E-06	0.00055067	4.37324E-07	3.30422E-07	9.63268E-09	1.32967E-08	34.69927916	0	0	12.6783212	0	
Orange (SC)	2023 Lawn and Garden - Misc - Lawn Mowers	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	5.08597474	0	
Orange (SC)	2023 Lawn and Garden - Misc - Lawn Mowers	Aggregate	25 Gasoline	0.000130541	0.000146522	0.000131846	0.008566554	4.47438E-05	0.017199389	2.00202E-06	1.51264E-06	2.97656E-07	4.10875E-07	1160.578582	0	0	51.85292983	0	
Orange (SC)	2023 Lawn and Garden - Misc - Lawn Mowers	Aggregate	25 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	20.8010448	0	
Orange (SC)	2023 Lawn and Garden - Misc - Lawn Mowers	Aggregate	5 Gasoline	0.033573764	0.03694588	0.03399502	1.59985706	0.01999412	4.170269119	0.000434571	0.000328342	6.77518E-05	9.35226E-05	253687.163	0	0	52071.44072	0	
Orange (SC)	2023 Lawn and Garden - Misc - Lawn Mowers	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	20888.70548	0	
Orange (SC)	2023 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Gasoline	0.000764108	0.000840855	0.000717175	0.05563107	0.000567231	0.13460786	2.08494E-06	1.57529E-06	2.16003E-06	2.98164E-06	8381.867141	0	0	434.9642537	0	
Orange (SC)	2023 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Gasoline	0.082219451	0.09047753	0.083041637	0.524881594	0.000637823	2.142845821	0.00157583	0.000874618	3.09419E-06	4.27113E-06	112386.9574	0	0	14429.50994	0	
Orange (SC)	2023 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	33490.24784	0	
Orange (SC)	2023 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Gasoline	1.63478E-05	1.78989E-05	1.65131E-05	0.00121076	1.79031E-05	0.00434361	1.57269E-06	3.90826E-08	5.99575E-08	8.27637E-08	235.0811392	0	0	4.85882619	0	
Orange (SC)	2023 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Gasoline	0.11204031	0.12328613	0.11363631	0.41779253	0.002789353	2.73272985	0.00130138	5.37374E-05	4.93311E-05	1.04640.8264	7005.543542	0	0	3005.543542	0	
Orange (SC)	2023 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	18022.3661	0	
Orange (SC)	2023 Lawn and Garden - Misc - Other	Aggregate	15 Gasoline	0.000394424	0.00043404	0.00039826	0.02226487	0.000145475	0.054132757	1.23241E-06	9.31154E-07	8.68988E-07	1.19952E-06	3375.200521	0	0	405.6123286	0	
Orange (SC)	2023 Lawn and Garden - Misc - Other	Aggregate	15 Diesel	7.35227E-07	1.0595E-06	8.84316E-07	5.2066E-06	6.21606E-06	0.00085213	2.18065E-07	1.65169E-07	8.17341E-07	7.04065E-09	28.01215033	0	0	1.01790774	0	
Orange (SC)	2023 Lawn and Garden - Misc - Other	Aggregate	25 Diesel	1.70133E-05	7.81588E-05	0.00060937	4.80382E-05	0.01284233	2.92376E-07	2.29070E-07	2.21545E-07	3.08131E-07	8.69126237	34.9851423	0	0	0.349541295	0	
Orange (SC)	2023 Lawn and Garden - Misc - Other	Aggregate	25 Diesel	1.29818E-07	1.86615E-07	1.56142E-07	5.32935E-07	9.66695E-07	0.00012943	3.31814E-08	2.57044E-08	1.23758E-09	1.06606E-09	4.244524643	0	0	0.01400925	0	
Orange (SC)	2023 Lawn and Garden - Misc - Other	Aggregate	5 Gasoline	0.000201327	0.00021357	0.000209388	0.0133587	0.000139868	5.50047E-06	3.40205E-07	3.70174E-07	5.10973E-07	1.411.263838	330.3459897	0	0	330.3459897	0	
Orange (SC)	2023 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	15 Gasoline	0.00189682	0.00191233	0.00180069	0.08969477	0.001318092	0.24226527	3.92988E-06	7.02652E-06	3.74685E-06	5.17204E-06	14517.85233	0	0	379.2234904	0	
Orange (SC)	2023 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	15 Diesel	0.000189429	0.00027208	0.000213468	0.001341468	0.00160155	0.0021699176	5.63196E-05	4.25527E-05	2.10586E-05	1.814E-06	7217.256889	0	0	25.4672225	0	
Orange (SC)	2023 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	21.9287228	0	
Orange (SC)	2023 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	25 Gasoline	0.057161038	0.063342411	0.058136648	3.214214942	0.029084225	6.28286965	0.00028384	0.000195233	0.000109933	0.000151749	430204.0551	0	0	4419.976138	0	
Orange (SC)	2023 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	25 Diesel	0.000571789	0.000821759	0.000687734	0.002347349	0.004343658	0.00014046	0.000112417	5.45097E-06	4.69551E-06	1.8681.7204	18681.7204	520.660558	0	0	250.477889	0
Orange (SC)	2023 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	25 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	250.477889	0	
Orange (SC)	2023 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	5 Gasoline	0.000180932	0.00019104	0.00018274	0.006512609	7.57424E-05	0.014317556	5.49234E-07	4.14976E-07	2.48853E-07	3.4351E-07	939.2673384	0	0	1.72656131	0	
Orange (SC)	2023 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	3.569314139	0	
Orange (SC)	2023 Lawn and Garden - Misc - Snowblowers	Aggregate	15 Gasoline	0.00019346	0.000214102	0.000196506	0.01438489	9.58068E-05	0.023713911	5.96363E-07	4.50787E-07	4.7274E-07	6.52556E-07	1752.997594	0	0	417.7729179	0	
Orange (SC)	2023 Lawn and Garden - Misc - Snowblowers	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	99.1698289	0	
Orange (SC)	2023 Lawn and Garden - Misc - Snowblowers	Aggregate	25 Gasoline	6.2538E-07	6.8836E-07	6.31793E-07	6.15946E-05	4.42834E-07	0.000101529	2.55442E-09	1.93001E-09	1.95439E-09	2.69779E-09	7.478310769	0	0	0.86050257	0	
Orange (SC)	2023 Lawn and Garden - Misc - Snowblowers	Aggregate	25 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8067935	0	
Orange (SC)	2023 Lawn and Garden - Misc - Snowblowers	Aggregate	5 Gasoline	8.58782E-05	9.45037E-05	8.67371E-05	0.00454705	3.73085E-05	0.00975632	2.13502E-07	1.61313E-07	1.66554E-07	2.29906E-07	641.57384	0	0	314.082646	0	
Orange (SC)	2023 Lawn and Garden - Misc - Tillers	Aggregate	15 Gasoline	0.000290734	0.000319935	0.000293641	0.018561842	0.000177371	0.044141159	6.9067E-07	7.32186E-07	7.21539E-07	9.95919E-07	2772.124058	0	0	447.580716	0	
Orange (SC)	2023 Lawn and Garden - Misc - Tillers	Aggregate	2 Gasoline	0.00112925	0.001230011	0.001131783	0.00340618	2.09131E-05	0.019457261	1.96879E-06	1.48753E-06	3.04326E-07	4.20082E-07	1071.878671	0	0	605.8989391	0	
Orange (SC)	2023 Lawn and Garden - Misc - Tillers	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	186.1292702	0	
Orange (SC)	2023 Lawn and Garden - Misc - Tillers	Aggregate	5 Gasoline	0.000179802	0.000217981	0.000203816	0.009052941	5.9487E-05	0.00217802	3.74945E-07	2.82317E-07	3.42268E-07	4.72457E-07	1304.684927	0	0	300.379944	0	
Orange (SC)	2023 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	15 Gasoline	1.17078E-05	1.17878E-05	1.174448E-05	0.00013522	1.17014E-05	0.00014887	1.58984E-07	1.2101E-08	3.78986E-08	8.49577E-08	145.8217	0	0	7.11650456	0	
Orange (SC)	2023 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	2 Gasoline	0.11975434	0.11973458	0.12059388	0.683265306	0.007296658	3.49631842	0.001038356	0.000784536	4.71451E-05	6.52423E-05	186036.263	0	0	38346.39951	0	
Orange (SC)	2023 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	56623.70852	0	
Orange (SC)	2023 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	25 Gasoline	1.90328E-05	2.09394E-05	1.92185E-05	0.000969827	7.82099E-06	0.00357568	4.08543E-08	3.08677E-08	4.93824E-08	6.8166E-08	192.6792063	0	0	7.89373336	0	
Orange (SC)	2023 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	5 Gasoline	0.004464552	0.004912966	0.004509196	0.08410792	0.000512023	0.270190663	5.32491E-05	4.03227E-05	3.96516E-06	5.47339E-06	15585.09679	0	0	1236.488079	0	
Orange (SC)	2023 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	912.1672592	0	
Orange (SC)	2023 Lawn and Garden - Misc - Wood Splitters	Aggregate	2 Gasoline	0.000238227	0.000268788	0.000230069	0.002894152	0.00887891	2.97937E-05	2.247E-05	1.12963E-05	1.5593E-05	4.9683.62461	9.45112911	0	0	0.38560336	0	
Orange (SC)	2023 Lawn and Garden - Misc - Wood Splitters	Aggregate	2 Gasoline	0.000109391	0.000120378	0.000110485	0.002891809	5.64747E-05	0.000329759	2.63169E-07	1.58884E-07	1.11146E-07	1.53423E-07	419.8126502	0	0	31.8953002	0	
Orange (SC)	2023 Lawn and Garden - Misc - Wood Splitters	Aggregate	25 Gasoline	3.70791E-06	4.0821E-06	3.7468E-06	0.00202008	1.55239E-06	0.00044113	1.86802E-0									







OFFROAD 2024

Equipment Type	Horsepower	Gas				Diesel				Natural Gas								
		Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr					
Air Compressors25	Air Compressors	25	9058.37727	30.97042859	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors50	Air Compressors	50	51892.05	48.03	23210.35	0	0	831.6202895	1.575798551	0	0	0	0	0	0	0	0	0
Air Compressors75	Air Compressors	75	0	0	0	0	0	91498.2	110.17	89662.25	1.020476287	0	0	0	0	0	0	0
Air Compressors100	Air Compressors	100	282542.85	155.71	75266.65	3.753891664	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors175	Air Compressors	175	24660.4	16.48	3058.9	6.851370851	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors300	Air Compressors	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors600	Air Compressors	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors750	Air Compressors	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors9999	Air Compressors	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts25	Aerial Lifts	25	2573.16634	14.29916225	0	0	0	19.27392888	8.978987915	0	0	0	0	0	0	0	0	0
Aerial Lifts50	Aerial Lifts	50	72901.45	127.24	4599.05	1.585536239	123230.565	483.3519432	149623.2908	0.817590392	0	0	0	0	0	0	0	0
Aerial Lifts75	Aerial Lifts	75	0	0	0	0	0	93636.84125	273.0402435	84074.46352	1.113737006	0	0	0	0	0	0	0
Aerial Lifts100	Aerial Lifts	100	130994.85	127.24	4599.05	2.849011669	119615.5255	312.5022002	96780.70397	1.238010477	0	0	0	0	0	0	0	0
Aerial Lifts175	Aerial Lifts	175	0	0	0	0	0	12045.36339	20.30123782	6724.62412	1.079067449	0	0	0	0	0	0	0
Aerial Lifts300	Aerial Lifts	300	0	0	0	0	0	779.5612338	0.684311387	212.6901994	3.665242855	0	0	0	0	0	0	0
Aerial Lifts600	Aerial Lifts	600	0	0	0	0	0	553.6014559	0.228103796	70.89673314	7.808560865	0	0	0	0	0	0	0
Bore/Drill rigs25	Bore/Drill rigs	25	215.5695038	2.272978544	0	0	0	8.807321926	1.38568425	0	0	0	0	0	0	0	0	0
Bore/Drill rigs50	Bore/Drill rigs	50	689.85	2.5	266.45	2.589041096	2989.470367	7.179490683	2614.484433	1.14342634	0	0	0	0	0	0	0	0
Bore/Drill rigs75	Bore/Drill rigs	75	0	0	0	0	0	2676.28668	4.05352868	1982.58594	1.532428759	0	0	0	0	0	0	0
Bore/Drill rigs100	Bore/Drill rigs	100	7876.7	11.48	1276.4	6.422619048	15009.15616	17.91072886	6976.491392	2.151390336	0	0	0	0	0	0	0	0
Bore/Drill rigs175	Bore/Drill rigs	175	2748.45	2.85	306.6	8.964285174	21890.54793	17.3061473	5603.021692	3.906918289	0	0	0	0	0	0	0	0
Bore/Drill rigs300	Bore/Drill rigs	300	0	0	0	0	0	31894.23274	17.83515617	5885.415681	5.419196446	0	0	0	0	0	0	0
Bore/Drill rigs600	Bore/Drill rigs	600	0	0	0	0	0	49131.86103	14.13209088	4775.354758	10.28663478	0	0	0	0	0	0	0
Bore/Drill rigs750	Bore/Drill rigs	750	0	0	0	0	0	31793.94048	3.174053216	1902.848005	16.70860712	0	0	0	0	0	0	0
Bore/Drill rigs9999	Bore/Drill rigs	9999	0	0	0	0	0	16328.66618	0.453436174	338.2899846	48.26825186	0	0	0	0	0	0	0
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	114.1774456	1.545515756	0	0	0	2.571731727	0.99129987	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers175	Cement and Mortar Mixers	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers9999	Cement and Mortar Mixers	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws25	Concrete/Industrial Saws	25	3740.351094	16.81408876	0	0	0	1.760124798	0.368110185	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws50	Concrete/Industrial Saws	50	15771.65	9.33	5701.3	2.766325224	4701.2	5.88	3420.05	1.374599787	0	0	0	0	0	0	0	0
Concrete/Industrial Saws75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws100	Concrete/Industrial Saws	100	15388.4	5.33	3266.75	4.710614525	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws175	Concrete/Industrial Saws	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws600	Concrete/Industrial Saws	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws9999	Concrete/Industrial Saws	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes25	Cranes	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes50	Cranes	50	2295.85	2.85	1193.55	1.92547401	935.734473	3.037218017	1357.103667	0.689508443	0	0	0	0	0	0	0	0
Cranes75	Cranes	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes100	Cranes	100	7825.6	5.7	2361.55	3.313755796	22527.27171	37.39574684	17098.48591	1.317500966	0	0	0	0	0	0	0	0
Cranes175	Cranes	175	503.7	0.21	91.25	5.52	6388.87898	61.78840404	28778.0947	2.202678101	0	0	0	0	0	0	0	0
Cranes300	Cranes	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes600	Cranes	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes750	Cranes	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes9999	Cranes	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors25	Crawler Tractors	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors50	Crawler Tractors	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors75	Crawler Tractors	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors100	Crawler Tractors	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors175	Crawler Tractors	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors300	Crawler Tractors	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors600	Crawler Tractors	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors750	Crawler Tractors	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors9999	Crawler Tractors	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment25	Crushing/Proc. Equipment	25	39.9878892	0.18875644	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment50	Crushing/Proc. Equipment	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment75	Crushing/Proc. Equipment	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment100	Crushing/Proc. Equipment	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment175	Crushing/Proc. Equipment	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment300	Crushing/Proc. Equipment	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment600	Crushing/Proc. Equipment	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment750	Crushing/Proc. Equipment	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment9999	Crushing/Proc. Equipment	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dumpers/Tenders25	Dumpers/Tenders	25	14084.03028	276.39951	40558.8	0.347249679	1.266598888	0.51195169	0	0	0	0	0	0	0	0	0	0
Dumpers/Tenders100	Dumpers/Tenders	100	649.7	2.06	266.45	2.438356164	0	0										



Region	Calendar Year	Vehicle Category	Model Year	Horsepower B Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption Total_Activity Total_Population	Horsepower_Hours_Nhpy	
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 100 Gasoline	7.78475E-08	9.149355E-08	1.1211E-07	1.1898E-06	2.95847E-07	3.73996E-05	2.8089E-09	2.58491E-09	3.73996E-10	3.04432E-10	1.210136899	6.227602241	0.003654008	32.2953101
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 100 Diesel	0.00016246	0.00029606	0.00046791	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	25715000
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 175 Diesel	0.58856E-08	1.16022E-07	1.38075E-07	1.4585E-06	7.11241E-07	8.40024E-05	6.31929E-09	5.81347E-09	6.72722E-10	6.84893E-10	2.724290057	7.670082808	0.006434124	72.5550438
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 175 Diesel	0.000604295	0.000731197	0.000870185	0.00084126	0.000349621	1.030960611	0.000289043	0.00026592	9.37788E-06	4.80555E-06	33412.55451	24.74000078	9.37788E-06	1327701.364
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 25 Gasoline	2.56299E-06	3.10212E-06	3.60071E-06	3.86997E-05	1.64399E-05	5.24939E-08	4.82993E-08	6.19034E-10	6.22564E-10	2.47473045	7.26462007	6.403447866	66.04394288	66.04394288
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 300 Diesel	0.000149610	0.000254011	0.000393793	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	5553.8455
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 300 Diesel	0.000232773	0.000282825	0.000339513	0.00015522	0.00026247	0.705544029	0.16771E-05	8.43429E-07	6.45958E-06	5.78490E-06	22995.67411	1489.110944	3.276790904	913770.0286
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 50 Gasoline	5.33983E-07	6.46119E-07	7.68995E-07	1.58122E-05	6.48115E-06	0.00030304	2.48474E-08	2.28596E-08	2.28596E-08	2.693E-09	1.0748210E-09	47.40803242	0.00080726	68.68807
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 50 Diesel	0.00324762	0.000390334	0.004677065	0.012776488	0.009923551	1.18918506	0.00084674	0.00079216	1.07401E-05	9.69514E-06	3853.76335	2934.853504	0.00163865	1377.50846
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 600 Diesel	0.000121257	0.000144709	0.000174322	0.000038204	0.000145339	0.34843354	4.5616E-05	4.19667E-05	3.50366E-06	3.13758E-06	1247.026176	1037.335004	10.64312956	49597.8305
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 75 Gasoline	4.85347E-06	5.87173E-06	6.98784E-06	1.29065E-05	1.90974E-05	2.4295E-06	1.67891E-05	1.67891E-05	1.29326E-06	0.78200322	12.45520323	0.00348223	20.9818104	
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 75 Diesel	0.001734964	0.002093927	0.002498348	0.008763643	0.014238237	1.222168926	0.000919353	0.000848004	1.10865E-05	9.06444E-06	39609.24547	2617.004432	36.40205054	1415771.668
Orange (SC)	2024	Agricultural - Agricultural Tractors	Aggregate 750 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Orange (SC)	2024	Agricultural - ATVs	Aggregate 100 Gasoline	2.02389E-05	2.44891E-05	2.91444E-05	0.000715081	7.70867E-05	0.04557342	3.42828E-06	3.14034E-06	4.14739E-07	3.71564E-07	1476.987954	52.06582766	1.87994066	4730.23426
Orange (SC)	2024	Agricultural - ATVs	Aggregate 175 Gasoline	2.07472E-05	2.47711E-05	2.94797E-05	0.000848156	0.000111436	0.06528625	4.91122E-06	4.51832E-06	5.94399E-07	5.32289E-07	2115.863079	29.3006941	1.63865288	6776.07911
Orange (SC)	2024	Agricultural - ATVs	Aggregate 475 Diesel	4.97477E-08	6.01948E-08	7.16387E-08	9.36447E-07	5.14088E-07	0.00017952	2.02424E-08	1.86338E-08	1.56529E-09	1.39378E-09	5.54038336	70.3702479	0.00254308	264.18676
Orange (SC)	2024	Agricultural - ATVs	Aggregate 25 Gasoline	0.001434093	0.001730986	0.002059909	0.01781048	0.000605054	0.063651906	5.47842E-05	5.04015E-05	5.3718E-07	5.18945E-07	2062.83778	267.557197	11.4262312	6601.96423
Orange (SC)	2024	Agricultural - ATVs	Aggregate 25 Diesel	3.00711E-05	3.63881E-05	4.33024E-05	0.000253901	0.000244845	0.03739068	1.03844E-05	9.5333E-06	3.39763E-06	3.04754E-06	1211.417396	290.543395	0.00351044	5196.30575
Orange (SC)	2024	Agricultural - ATVs	Aggregate 25 Electric	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Orange (SC)	2024	Agricultural - ATVs	Aggregate 40 Gasoline	4.70704E-05	5.69535E-05	6.77844E-05	0.002313763	0.000120434	0.06859097	0.1604262E-06	4.74759E-06	6.33786E-07	5.59284E-07	2223.226608	157.0312073	7.59671482	7198.3738
Orange (SC)	2024	Agricultural - ATVs	Aggregate 50 Diesel	7.87997E-05	9.41848E-05	0.00012089	0.00077206	0.00039581	0.109938785	2.3208E-05	2.1351E-05	9.99624E-07	9.8634E-07	3563.003634	509.7120921	2.675702059	15889.77627
Orange (SC)	2024	Agricultural - ATVs	Aggregate 75 Gasoline	1.29718E-05	1.56985E-05	1.86793E-05	0.00068299	3.53995E-05	0.01232905	1.60441E-06	1.47666E-06	1.93989E-07	1.73888E-07	691.2156015	98.81290904	1.00125112	2236.03689
Orange (SC)	2024	Agricultural - Bale Wagons (Self Propelled)	Aggregate 175 Diesel	8.69597E-08	1.05221E-07	1.25222E-07	8.26152E-07	8.752E-07	0.000139853	4.000630E-08	3.68555E-08	1.71988E-09	1.14023E-09	4.532480932	134.7400000	0.00021549	172.9011743
Orange (SC)	2024	Agricultural - Bale Wagons (Self Propelled)	Aggregate 300 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Orange (SC)	2024	Agricultural - Bale Wagons (Self Propelled)	Aggregate 75 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Orange (SC)	2024	Agricultural - Combine Harvesters	Aggregate 175 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Orange (SC)	2024	Agricultural - Combine Harvesters	Aggregate 300 Diesel	3.71053E-07	4.48974E-07	5.34316E-07	2.01532E-06	3.90286E-06	0.00072699	1.75034E-06	1.61031E-07	6.63919E-09	5.94292E-09	23.64879951	40.84858911	0.000499451	1016.534263
Orange (SC)	2024	Agricultural - Combine Harvesters	Aggregate 600 Diesel	3.01085E-05	3.64312E-05	4.33622E-05	0.000249195	0.000326249	0.06461847	3.16103E-05	1.23038E-05	5.88031E-07	5.26837E-07	204.200807	681.6169147	0.027035795	9500.70304
Orange (SC)	2024	Agricultural - Combine Harvesters	Aggregate 750 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Orange (SC)	2024	Agricultural - Combine Harvesters	Aggregate 999 Diesel	3.37254E-07	4.00878E-07	4.85646E-07	2.62056E-06	4.85762E-06	0.00055146	1.50811E-07	1.38746E-07	5.96075E-09	5.31466E-09	21.2326213	109.4079585	0.00125494	912.6757274
Orange (SC)	2024	Agricultural - Construction Equipment	Aggregate 100 Diesel	7.14283E-06	8.64283E-06	1.02875E-05	6.16665E-05	6.6416E-05	0.01022584	6.13638E-06	3.97107E-06	9.29832E-08	8.33732E-08	331.4136765	97.9537318	0.00274046	1425.04762
Orange (SC)	2024	Agricultural - Construction Equipment	Aggregate 175 Diesel	5.85337E-05	7.02875E-05	8.48885E-05	0.000603017	0.0007219	0.10517838	2.84544E-05	2.61781E-05	9.56816E-07	8.57526E-07	3408.715924	105.0967885	0.002249047	1625.04947
Orange (SC)	2024	Agricultural - Construction Equipment	Aggregate 300 Diesel	8.24092E-06	9.99454E-06	1.18407E-05	4.10465E-05	8.88875E-05	0.01402215	4.03977E-06	3.74569E-06	1.7535E-07	1.45238E-07	454.461851	13.0737867	0.019515166	21670.52348
Orange (SC)	2024	Agricultural - Construction Equipment	Aggregate 300 Diesel	1.51927E-07	1.82362E-07	2.19023E-07	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Orange (SC)	2024	Agricultural - Construction Equipment	Aggregate 600 Diesel	4.50177E-06	5.44714E-06	6.48254E-06	3.73187E-05	4.65872E-05	0.002725616	2.16177E-06	1.98883E-06	6.51777E-08	5.8911E-08	234.1748283	46.23215369	0.03701211	11166.37413
Orange (SC)	2024	Agricultural - Construction Equipment	Aggregate 75 Diesel	1.7151E-07	2.05727E-07	2.46975E-07	1.23328E-06	1.55837E-06	0.000198653	8.01867E-08	7.37718E-08	1.61963E-09	6.43814159	134.7497913	0.005123125	276.1457783	
Orange (SC)	2024	Agricultural - Cotton Pickers	Aggregate 600 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Orange (SC)	2024	Agricultural - Forage & Silage Harvesters	Aggregate 600 Diesel	1.23246E-06	1.49128E-06	1.77475E-06	1.07702E-05	1.2618E-05	0.00257595	3.15807E-07	4.86146E-07	2.34833E-08	2.10007E-08	83.47898513	3.060439009	0.006780914	3588.307488
Orange (SC)	2024	Agricultural - Forage & Silage Harvesters	Aggregate 8150 Diesel	8.15901E-06	9.8724E-06	1.1749E-05	6.74861E-05	7.14081E-05	0.0123641	4.1641E-06	3.83488E-06	1.1881E-07	1.0505E-07	423.3626337	92.464409	0.031948809	18398.07461
Orange (SC)	2024	Agricultural - Forage & Silage Harvesters	Aggregate 999 Diesel	5.70097E-06	6.89817E-06	8.2094E-06	4.62863E-05	7.77452E-05	0.00873272	2.72954E-06	2.50786E-06	7.94222E-08	7.12031E-08	283.038426	46.23215369	0.016368885	12166.20825
Orange (SC)	2024	Agricultural - Forklifts	Aggregate 100 Diesel	2.02643E-05	2.45197E-05	2.91805E-05	0.000158642	0.000164925	0.002515557	1.17323E-05	1.07946E-05	2.23993E-07	2.08976E-07	803.692489	39.9244085	0.0051109673	35630.19576
Orange (SC)	2024	Agricultural - Forklifts	Aggregate 175 Diesel	2.06585E-06	2.49967E-06	2.97482E-06	1.96274E-05	2.07903E-05	0.00332389	9.51147E-07	8.75757E-07	3.02177E-08	2.70878E-08	107.6759691	41.29580810	0.003568121	5134.394949
Orange (SC)	2024	Agricultural - Forklifts	Aggregate 175 Diesel	1.81501E-05	2.16207E-05	2.59012E-05	0.000152926	0.000163125	0.002515557	1.17323E-05	1.07946E-05	2.23993E-07	2.08976E-07	803.692489	39.9244085	0.0051109673	35630.19576
Orange (SC)	2024	Agricultural - Forklifts	Aggregate 75 Diesel														



Orange (SC)	2024 Airport Ground Support - Misc - Lift	Aggregate	100	Nat Gas	0	0	7.17561E-07	0.00049453	4.20343E-05	0.01156423	0	0	0	0	631.45	28.5	3	9855	
Orange (SC)	2024 Airport Ground Support - Misc - Maint. Truck	Aggregate	175	Gasoline	0.00016481	0.000151473	0.000181221	0.014388849	0.001330817	0.041279591	5.9116E-05	2.24396E-05	4.11534E-06	5.79626E-06	16545.45	9795.9	6.32	36347	
Orange (SC)	2024 Airport Ground Support - Misc - Other	Aggregate	50	Gasoline	0.000136477	0.000125531	0.000150184	0.004294284	0.000283931	0.099731899	6.87346E-06	5.19477E-06	1.21256E-06	1.5357E-06	4883.65	1689.95	3.2	84475	
Orange (SC)	2024 Airport Ground Support - Misc - Passenger Stand	Aggregate	50	Nat Gas	0	0	1.53270E-05	0.000198001	0.000157280	0.000157280	0.000157280	0.000157280	0.000157280	0.000157280	4810.7	1773.9	0	89055	
Orange (SC)	2024 Airport Ground Support - Misc - Passenger Stand	Aggregate	175	Gasoline	4.84122E-05	4.45292E-05	5.11677E-05	0.004368763	0.000485054	0.133773645	5.99042E-06	7.24858E-06	1.18393E-06	1.86867E-06	5329	792.05	4.23	99085.45	
Orange (SC)	2024 Airport Ground Support - Misc - Passenger Stand	Aggregate	175	Nat Gas	0	0	0.98252E-09	8.97548E-06	1.01031E-06	0.000355666	0	0	0	0	3.65	0	0	17	
Orange (SC)	2024 Airport Ground Support - Misc - Service Truck	Aggregate	300	Gasoline	0.000841049	0.000773597	0.000925254	0.049535886	0.005077917	1.201912981	8.86657E-05	6.69919E-05	1.22864E-05	1.70013E-05	48530.4	15096.4	0.173	271732	
Orange (SC)	2024 Airport Ground Support - Misc - Service Truck	Aggregate	300	Gasoline	0.00013876	0.000167808	0.000217088	0.000899979	0.000293554	0.000195234	0.00021213	0.00011815	0	0	0	1.78	0	0	1.75
Orange (SC)	2024 Airport Ground Support - Misc - Sweeper	Aggregate	100	Gasoline	6.67832E-06	6.32484E-06	7.56569E-06	0.000377018	3.38452E-05	0.009418997	6.56708E-07	4.96179E-07	7.77634E-08	1.32983E-07	379.6	149.65	0.41	7976.345	
Orange (SC)	2024 Airport Ground Support - Misc - Sweeper	Aggregate	50	Nat Gas	0	0	8.97964E-08	2.39696E-05	7.0501E-06	0.00196533	0	0	0	0	10.2	5.11	0.15	2299.5	
Orange (SC)	2024 Airport Ground Support - Misc - Water Truck	Aggregate	175	Gasoline	1.40668E-05	1.29386E-05	1.54796E-05	0.00113788	0.000118682	0.03341863	2.39527E-06	1.80976E-07	4.66719E-07	1.33225	481.8	1.57	72720		
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	100	Diesel	3.18226E-05	3.8053E-05	4.5845E-05	0.000741509	0.000472691	0.011698252	1.85776E-05	1.07798E-06	5.24795E-07	3786.146278	2612.501403	5.36261582	218241.503		
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	175	Gasoline	8.34176E-06	0.000109935	0.000120121	0.000271447	0.000928089	0.356652889	3.65554E-05	3.3631E-05	3.29495E-06	11571.7104	4533.957908	6.871810222	66693.74		
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	300	Diesel	8.33225E-05	0.00010082	0.000119984	0.00074968	0.000903484	0.350934817	3.53096E-05	3.24848E-05	3.24070E-06	2.86248E-06	11385.69366	2912.229002	6.08431007	65630.4949	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	50	Diesel	0.000147618	0.000178617	0.000212569	0.000137903	0.001215785	0.001215785	0.182146E	5.7866E-05	5.53267E-05	1.67933E-06	1.48641E-06	5908.56683	8916.687423	18.56286598	306110.1391
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	600	Diesel	4.92001E-05	5.96441E-05	7.09709E-05	0.000516063	0.000515512	0.1990274	2.00036E-05	1.91393E-05	2.02359E-06	1.76566E-06	7102.0581	1139.966444	2.718578755	409281.7993	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	100	Gasoline	6.67832E-06	6.32484E-06	7.56569E-06	0.000377018	3.38452E-05	0.009418997	6.56708E-07	4.96179E-07	7.77634E-08	1.32983E-07	379.6	149.65	0.41	7976.345	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	300	Diesel	8.33225E-05	0.00010082	0.000119984	0.00074968	0.000903484	0.350934817	3.53096E-05	3.24848E-05	3.24070E-06	2.86248E-06	11385.69366	2912.229002	6.08431007	65630.4949	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	50	Diesel	0.000147618	0.000178617	0.000212569	0.000137903	0.001215785	0.001215785	0.182146E	5.7866E-05	5.53267E-05	1.67933E-06	1.48641E-06	5908.56683	8916.687423	18.56286598	306110.1391
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	600	Diesel	4.92001E-05	5.96441E-05	7.09709E-05	0.000516063	0.000515512	0.1990274	2.00036E-05	1.91393E-05	2.02359E-06	1.76566E-06	7102.0581	1139.966444	2.718578755	409281.7993	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	100	Gasoline	6.67832E-06	6.32484E-06	7.56569E-06	0.000377018	3.38452E-05	0.009418997	6.56708E-07	4.96179E-07	7.77634E-08	1.32983E-07	379.6	149.65	0.41	7976.345	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	300	Diesel	8.33225E-05	0.00010082	0.000119984	0.00074968	0.000903484	0.350934817	3.53096E-05	3.24848E-05	3.24070E-06	2.86248E-06	11385.69366	2912.229002	6.08431007	65630.4949	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	50	Diesel	0.000147618	0.000178617	0.000212569	0.000137903	0.001215785	0.001215785	0.182146E	5.7866E-05	5.53267E-05	1.67933E-06	1.48641E-06	5908.56683	8916.687423	18.56286598	306110.1391
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	600	Diesel	4.92001E-05	5.96441E-05	7.09709E-05	0.000516063	0.000515512	0.1990274	2.00036E-05	1.91393E-05	2.02359E-06	1.76566E-06	7102.0581	1139.966444	2.718578755	409281.7993	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	100	Gasoline	6.67832E-06	6.32484E-06	7.56569E-06	0.000377018	3.38452E-05	0.009418997	6.56708E-07	4.96179E-07	7.77634E-08	1.32983E-07	379.6	149.65	0.41	7976.345	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	300	Diesel	8.33225E-05	0.00010082	0.000119984	0.00074968	0.000903484	0.350934817	3.53096E-05	3.24848E-05	3.24070E-06	2.86248E-06	11385.69366	2912.229002	6.08431007	65630.4949	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	50	Diesel	0.000147618	0.000178617	0.000212569	0.000137903	0.001215785	0.001215785	0.182146E	5.7866E-05	5.53267E-05	1.67933E-06	1.48641E-06	5908.56683	8916.687423	18.56286598	306110.1391
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	600	Diesel	4.92001E-05	5.96441E-05	7.09709E-05	0.000516063	0.000515512	0.1990274	2.00036E-05	1.91393E-05	2.02359E-06	1.76566E-06	7102.0581	1139.966444	2.718578755	409281.7993	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	100	Gasoline	6.67832E-06	6.32484E-06	7.56569E-06	0.000377018	3.38452E-05	0.009418997	6.56708E-07	4.96179E-07	7.77634E-08	1.32983E-07	379.6	149.65	0.41	7976.345	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	300	Diesel	8.33225E-05	0.00010082	0.000119984	0.00074968	0.000903484	0.350934817	3.53096E-05	3.24848E-05	3.24070E-06	2.86248E-06	11385.69366	2912.229002	6.08431007	65630.4949	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	50	Diesel	0.000147618	0.000178617	0.000212569	0.000137903	0.001215785	0.001215785	0.182146E	5.7866E-05	5.53267E-05	1.67933E-06	1.48641E-06	5908.56683	8916.687423	18.56286598	306110.1391
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	600	Diesel	4.92001E-05	5.96441E-05	7.09709E-05	0.000516063	0.000515512	0.1990274	2.00036E-05	1.91393E-05	2.02359E-06	1.76566E-06	7102.0581	1139.966444	2.718578755	409281.7993	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	100	Gasoline	6.67832E-06	6.32484E-06	7.56569E-06	0.000377018	3.38452E-05	0.009418997	6.56708E-07	4.96179E-07	7.77634E-08	1.32983E-07	379.6	149.65	0.41	7976.345	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	300	Diesel	8.33225E-05	0.00010082	0.000119984	0.00074968	0.000903484	0.350934817	3.53096E-05	3.24848E-05	3.24070E-06	2.86248E-06	11385.69366	2912.229002	6.08431007	65630.4949	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	50	Diesel	0.000147618	0.000178617	0.000212569	0.000137903	0.001215785	0.001215785	0.182146E	5.7866E-05	5.53267E-05	1.67933E-06	1.48641E-06	5908.56683	8916.687423	18.56286598	306110.1391
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	600	Diesel	4.92001E-05	5.96441E-05	7.09709E-05	0.000516063	0.000515512	0.1990274	2.00036E-05	1.91393E-05	2.02359E-06	1.76566E-06	7102.0581	1139.966444	2.718578755	409281.7993	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	100	Gasoline	6.67832E-06	6.32484E-06	7.56569E-06	0.000377018	3.38452E-05	0.009418997	6.56708E-07	4.96179E-07	7.77634E-08	1.32983E-07	379.6	149.65	0.41	7976.345	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	300	Diesel	8.33225E-05	0.00010082	0.000119984	0.00074968	0.000903484	0.350934817	3.53096E-05	3.24848E-05	3.24070E-06	2.86248E-06	11385.69366	2912.229002	6.08431007	65630.4949	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	50	Diesel	0.000147618	0.000178617	0.000212569	0.000137903	0.001215785	0.001215785	0.182146E	5.7866E-05	5.53267E-05	1.67933E-06	1.48641E-06	5908.56683	8916.687423	18.56286598	306110.1391
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	600	Diesel	4.92001E-05	5.96441E-05	7.09709E-05	0.000516063	0.000515512	0.1990274	2.00036E-05	1.91393E-05	2.02359E-06	1.76566E-06	7102.0581	1139.966444	2.718578755	409281.7993	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	100	Gasoline	6.67832E-06	6.32484E-06	7.56569E-06	0.000377018	3.38452E-05	0.009418997	6.56708E-07	4.96179E-07	7.77634E-08	1.32983E-07	379.6	149.65	0.41	7976.345	
Orange (SC)	2024 Airport Ground Support - Other	Aggregate	25	Diesel	0	0	0	0</											







Orange (SC)	2024 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	15 Gasoline	7.22058E-05	0.000079458	7.29278E-05	0.000410174	2.93476E-05	0.008406002	1.61377E-07	1.21929E-07	1.45189E-07	2.00415E-07	566.4497793	0	56.99157403	0
Orange (SC)	2024 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	0	21.12074839	0
Orange (SC)	2024 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	2 Gasoline	2.27607E-05	2.50468E-05	2.29883E-05	0.000300198	2.46374E-06	0.006055960	1.12506E-08	8.50043E-09	1.22318E-08	1.68845E-08	45.15489881	0	19.71572733	0
Orange (SC)	2024 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	7.382646135	0	
Orange (SC)	2024 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	25 Diesel	1.98566E-06	2.84442E-06	1.51666E-06	0.00197974	1.50923E-05	0.00197974	5.07355E-07	8.38471E-07	1.89297E-06	1.63062E-06	64.67637373	0	0.15460015	0
Orange (SC)	2024 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	5 Gasoline	8.48133E-05	9.33318E-05	8.56614E-05	0.00490469	0.000030651	0.008970857	1.58516E-07	1.19768E-07	1.52025E-07	2.09857E-07	585.3751555	0	0.62483000	0
Orange (SC)	2024 Lawn and Garden - Misc - Chippers/Stump Grinders	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	33.58504119	0	
Orange (SC)	2024 Lawn and Garden - Misc - Lawn Mowers	Aggregate	15 Gasoline	0.000156253	0.000172159	0.000157983	0.010349949	7.00227E-06	0.02065991	1.90012E-06	1.43564E-06	3.66544E-06	5.05965E-07	1397.500000	0	191.8854447	0
Orange (SC)	2024 Lawn and Garden - Misc - Lawn Mowers	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	79.989323	0	
Orange (SC)	2024 Lawn and Garden - Misc - Lawn Mowers	Aggregate	2 Gasoline	9.54949E-06	1.05808E-05	9.64499E-06	0.000210004	4.56865E-06	0.000561639	4.37542E-07	3.30588E-07	1.34334E-08	35.14380234	0	12.893003	0	
Orange (SC)	2024 Lawn and Garden - Misc - Lawn Mowers	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	5.32454577	0	
Orange (SC)	2024 Lawn and Garden - Misc - Lawn Mowers	Aggregate	25 Gasoline	0.000219165	0.000412138	0.000130457	0.008918502	4.42492E-05	0.017403009	1.6006E-06	1.20934E-06	3.01735E-07	4.16507E-07	1176.898987	0	52.5133282	0
Orange (SC)	2024 Lawn and Garden - Misc - Lawn Mowers	Aggregate	25 Electric	0	0	0	0	0	0	0	0	0	0	0	21.77862615	0	
Orange (SC)	2024 Lawn and Garden - Misc - Lawn Mowers	Aggregate	5 Gasoline	0.03403022	0.036757987	0.03373052	1.62652442	0.020130877	4.219640152	0.000344203	0.000260065	6.85515E-05	9.46265E-05	257061.8237	0	52734.62688	0
Orange (SC)	2024 Lawn and Garden - Misc - Lawn Mowers	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	21868.5954	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Gasoline	0.000697939	0.000846655	0.000777072	0.056074274	0.000571159	1.135625666	2.08418E-06	1.57471E-06	2.17642E-06	3.00426E-06	8445.211172	0	439.5668877	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Gasoline	0.082891952	0.091217537	0.083720067	0.528945922	0.000571159	2.159053312	0.001166687	0.000881028	3.11792E-06	4.30399E-06	122317.3999	0	14582.18778	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	34156.7737	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Gasoline	1.64544E-05	1.81071E-05	1.6619E-05	0.001219673	1.80335E-05	0.004376012	5.16648E-08	3.90384E-08	6.04075E-08	8.33848E-08	236.8425937	0	4.47329039	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Gasoline	0.11294987	0.12424441	0.114079388	0.420960761	0.002811811	2.743870572	0.001735467	0.000311241	3.60098E-05	4.97069E-05	141712.1355	0	7099.66803	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	18381.04882	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Gasoline	0.00404362	0.0044416	0.004076701	0.022825165	0.000418012	0.05527424	1.17468E-06	8.7353E-07	8.90513E-07	1.22938E-06	3461.372704	0	412.158925	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Diesel	7.45894E-07	1.07232E-06	8.97147E-07	5.28215E-06	6.30625E-06	0.000850505	2.21777E-07	1.67565E-07	8.292E-09	7.14281E-09	28.41858913	0	0.10499844	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Gasoline	7.22153E-05	7.94685E-05	7.29374E-05	0.006677253	4.89418E-05	0.013173304	2.76868E-07	2.10559E-07	3.13716E-07	3.13716E-07	892.0910734	0	36.0597868	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Diesel	1.29811E-07	1.86605E-07	1.56134E-07	5.32908E-07	5.69661E-07	0.00129424	3.31977E-08	2.60491E-08	1.23751E-09	1.066E-09	4.24237364	0	0.01408615	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	0.000205207	0.000205207	0.000205207	0.000205207	0.000205207	0.000205207	0.000205207	0.000205207	0.000205207	0.000205207	0.000205207	0.000205207	0	340.4870916	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Gasoline	0.001701214	0.001883006	0.001727442	0.089397077	0.001303023	0.242070058	1.24070E-06	6.18301E-06	3.74192E-06	5.16525E-06	1452.775988	0	380.1092133	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Diesel	0.000191789	0.000275699	0.000230608	0.001358178	0.001621499	0.002245774	5.70246E-05	4.30885E-05	2.13209E-06	1.83666E-06	7307.155838	0	258.6327305	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	22.42230975	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Gasoline	0.05594356	0.061562476	0.05650297	3.230610486	0.024883977	6.304984915	0.000242129	0.000016942	0.00011053	0.000152189	431790.506	0	4430.299691	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Diesel	0.000578911	0.000831963	0.000692603	0.002376382	0.004406299	0.017544411	0.00041797	0.000111799	5.11887E-06	0.00000476	18914.42904	0	527.1119871	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Electric	0	0	0	0	0	0	0	0	0	0	0	256.1174572	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Gasoline	0.000181653	0.000199897	0.000183468	0.006350598	0.0143686	4.81337E-07	3.63677E-07	2.48483E-07	3.42998E-07	4.92380886	61.87073075	0	0.871072047	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	3.649700247	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Gasoline	0.00019932	0.000219243	0.000201225	0.014960852	9.74611E-05	0.024577766	5.48775E-07	4.14638E-07	4.91178E-07	6.78007E-07	1819.489227	0	432.3313691	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	41.18244613	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Gasoline	6.35838E-07	6.99701E-07	6.42196E-07	6.40537E-05	4.5247E-07	0.000105228	2.34954E-09	1.7525E-09	2.02951E-09	2.80147E-09	7.76172635	0	0.890486765	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Electric	0	0	0	0	0	0	0	0	0	0	0	0.084824803	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Gasoline	8.86482E-05	9.75519E-05	8.95346E-05	0.004716468	3.81929E-05	0.010111727	1.99236E-07	1.50534E-07	1.72611E-07	2.38268E-07	665.1166283	0	325.027025	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	30.96105228	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Gasoline	0.000295811	0.000325522	0.000298769	0.015013288	0.000180291	0.04521718	8.92368E-07	6.74234E-07	7.36837E-07	1.01711E-06	2839.365751	0	458.7783113	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Gasoline	0.00161963	0.00127867	0.001175883	0.003490124	2.19085E-05	0.019931566	1.97746E-06	1.49408E-06	3.12254E-06	4.31027E-06	1099.174789	0	620.8122703	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	190.7382817	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Gasoline	0.000182811	0.000201173	0.00018464	0.009334804	5.99949E-05	0.002618452	3.48717E-07	2.64797E-07	3.51179E-07	4.84755E-07	1339.920324	0	388.3872164	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	17.37863163	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Gasoline	0.120959369	0.13180407	0.122168952	0.68987955	0.003766363	3.525670505	0.001047072	0.000791112	4.79486E-05	6.61866E-05	187622.7749	0	3061.166139	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0.796148039	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Gasoline	1.91873E-05	2.11144E-05	1.93791E-05	0.000977666	7.9518E-06	0.003055953	4.06918E-08	3.04743E-08	4.97977E-08	6.87393E-08	194.2791068	0	5.79688213	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Gasoline	0.04050262	0.040954862	0.04045476	0.084809225	0.000518887	0.272371713	5.36934E-06	4.05848E-05	3.99849E-06	5.51939E-06	15715.7476	0	1253.056432	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	928.9441902	0	
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Gasoline	0.006120482	0.006572317	0.006518187	0.298962597	0.00295561	0.02095561	2.72195E-05	2.05659E-05	1.53599E-05	1.59238E-05	44674.11071	0	1486.229628	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Gasoline	0.000110945	0.00012088	0.00012055	0.006492738	5.85237E-05	0.006492738	2.41097E-07	1.81216E-07	1.13834E-07	1.57134E-07	40.7292301	0	0.366898869	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Gasoline	3.64034E-06	4.05998E-06	3.67675E-06	0.00204811	1.54722E-06	0.000438642	1.70098E-08	1.28511E-08	7.54676E-09	1.04174E-08	29.58419648	0	0.24212182	0
Orange (SC)	2024 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	25 Diesel	0.000090443	0.000106949	0.000091973	0.004699494	0.000127831	0.000127831	1.38777E-07	1.04854E-06	6.30057E-06	4.17087E-07	242.462922	0	1	







OFFROAD 2025

Equipment Type	Horsepower	Gas				Diesel				Natural Gas								
		Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr					
Air Compressors25	Air Compressors	25	9237.761358	31.56321155	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors50	Air Compressors	50	52293.55	48.28	23334.45	2.241044893	91947.15	110.75	90122.15	1.020250294	0	0	0	0	0	0	0	0
Air Compressors75	Air Compressors	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors100	Air Compressors	100	284032.05	156.52	75668.15	3.753653948	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors175	Air Compressors	175	34839.25	10.33	5095.4	6.83739255	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors300	Air Compressors	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors600	Air Compressors	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors750	Air Compressors	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors9999	Air Compressors	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts25	Aerial Lifts	25	2621.433284	14.56969034	0	0	19.36803168	9.025769581	0	54297.4	122.42	45949.85	1.181666534	0	0	0	0	0
Aerial Lifts50	Aerial Lifts	50	73288.35	127.9	46212.65	1.585893689	123769.914	486.9597282	151383.7677	0.817590392	0	0	0	0	0	0	0	0
Aerial Lifts75	Aerial Lifts	75	0	0	0	0	138031.052	390.4410468	121019.7505	1.140566324	0	0	0	0	0	0	0	0
Aerial Lifts100	Aerial Lifts	100	131681.05	127.9	46212.65	2.849458968	77932.8084	199.4719415	61963.36999	1.257273852	0	0	0	0	0	0	0	0
Aerial Lifts175	Aerial Lifts	175	0	0	0	0	12198.84279	20.4527882	6348.455364	2.07906749	0	0	0	0	0	0	0	0
Aerial Lifts300	Aerial Lifts	300	0	0	0	0	788.7335992	0.689419153	215.1927254	3.665242855	0	0	0	0	0	0	0	0
Aerial Lifts600	Aerial Lifts	600	0	0	0	0	560.115647	0.229806384	71.73090847	7.805608865	0	0	0	0	0	0	0	0
Bore/Drill rigs25	Bore/Drill rigs	25	216.6631722	2.284093808	0	0	8.9471904	1.40767896	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs50	Bore/Drill rigs	50	682.55	2.49	273.75	2.493333333	2874.668822	6.83621777	2499.715676	1.149997522	0	0	0	0	0	0	0	0
Bore/Drill rigs75	Bore/Drill rigs	75	0	0	0	0	1201.783226	2.302225986	753.7492932	1.709408991	0	0	0	0	0	0	0	0
Bore/Drill rigs100	Bore/Drill rigs	100	7862.1	11.5	1226.4	6.410714286	16512.88405	18.56572826	7806.091137	2.115384481	0	0	0	0	0	0	0	0
Bore/Drill rigs175	Bore/Drill rigs	175	2741.15	2.82	295.65	9.271604938	20903.56215	16.47888284	5358.982388	3.900658863	0	0	0	0	0	0	0	0
Bore/Drill rigs300	Bore/Drill rigs	300	0	0	0	0	30088.85892	16.6947634	5575.658753	5.396467082	0	0	0	0	0	0	0	0
Bore/Drill rigs600	Bore/Drill rigs	600	0	0	0	0	43334.60011	13.38659499	4352.602173	9.588282097	0	0	0	0	0	0	0	0
Bore/Drill rigs750	Bore/Drill rigs	750	0	0	0	0	34764.92364	3.382128792	2088.233242	16.44807977	0	0	0	0	0	0	0	0
Bore/Drill rigs9999	Bore/Drill rigs	9999	0	0	0	0	15614.44894	0.431761122	323.4946037	48.26803527	0	0	0	0	0	0	0	0
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	115.7121184	1.570526644	0	0	2.620235635	1.005879473	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers175	Cement and Mortar Mixers	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers9999	Cement and Mortar Mixers	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws25	Concrete/Industrial Saws	25	3790.918752	17.0398068	0	0	1.784854234	0.373282069	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws50	Concrete/Industrial Saws	50	15771.65	9.33	5701.3	2.766325224	4770.35	5.95	3462.2	1.378691983	0	0	0	0	0	0	0	0
Concrete/Industrial Saws75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws100	Concrete/Industrial Saws	100	15388.4	5.33	3266.75	4.710614525	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws175	Concrete/Industrial Saws	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws600	Concrete/Industrial Saws	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws9999	Concrete/Industrial Saws	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes25	Cranes	25	0	0	0	0	55.22956152	0.271128152	133.4125255	0.413975834	0	0	0	0	0	0	0	0
Cranes50	Cranes	50	2299.5	2.82	1186.25	1.938461588	894.8094929	2.82033622	1297.749662	0.689508443	0	0	0	0	0	0	0	0
Cranes75	Cranes	75	0	0	0	0	488.3494199	1.35564076	477.5486864	1.0291591	0	0	0	0	0	0	0	0
Cranes100	Cranes	100	7825.6	5.68	2354.25	3.324031008	21121.36207	34.52365137	16054.2567	3.156237971	0	0	0	0	0	0	0	0
Cranes175	Cranes	175	507.35	0.18	87.6	5.791666667	6088.47355	59.46744136	27679.81145	2.199743075	0	0	0	0	0	0	0	0
Cranes300	Cranes	300	0	0	0	0	103826.6314	65.6130128	31847.83933	3.260083998	0	0	0	0	0	0	0	0
Cranes600	Cranes	600	0	0	0	0	18965.2751	68.41467038	34731.16186	5.443678384	0	0	0	0	0	0	0	0
Cranes750	Cranes	750	0	0	0	0	3678.23279	0.802769507	389.8506011	4.217809923	0	0	0	0	0	0	0	0
Cranes9999	Cranes	9999	0	0	0	0	10277.02662	1.446016811	735.889916	13.9654402	0	0	0	0	0	0	0	0
Crawler Tractors25	Crawler Tractors	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors50	Crawler Tractors	50	0	0	0	0	2897.981424	8.02113496	2812.030599	1.030565395	0	0	0	0	0	0	0	0
Crawler Tractors75	Crawler Tractors	75	0	0	0	0	502.4550725	1.44801569	319.8254252	1.570538109	0	0	0	0	0	0	0	0
Crawler Tractors100	Crawler Tractors	100	0	0	0	0	127521.8526	136.3599314	65068.71364	3.948072502	0	0	0	0	0	0	0	0
Crawler Tractors175	Crawler Tractors	175	0	0	0	0	139654.8743	90.55843911	42173.11735	3.311466713	0	0	0	0	0	0	0	0
Crawler Tractors300	Crawler Tractors	300	0	0	0	0	146340.3846	69.70352842	32158.10558	4.550653156	0	0	0	0	0	0	0	0
Crawler Tractors600	Crawler Tractors	600	0	0	0	0	511936.2858	123.2846067	59921.87214	8.543390551	0	0	0	0	0	0	0	0
Crawler Tractors750	Crawler Tractors	750	0	0	0	0	5159.1214781	0.88232145	378.878078	13.64120554	0	0	0	0	0	0	0	0
Crawler Tractors9999	Crawler Tractors	9999	0	0	0	0	29740.43406	2.406335849	1368.460064	21.73277456	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment25	Crushing/Proc. Equipment	25	40.3530258	0.19046285	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment50	Crushing/Proc. Equipment	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment75	Crushing/Proc. Equipment	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment100	Crushing/Proc. Equipment	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment175	Crushing/Proc. Equipment	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment300	Crushing/Proc. Equipment	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment600	Crushing/Proc. Equipment	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment750	Crushing/Proc. Equipment	7																



Region	Calendar Year	Vehicle Category	Model Year	Horsepower B Fuel	HC_tpd	ROG_tpd	TOC_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption Total	Activity Total	Population	Horsepower_Hours_Nhpy	
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 100 Gasoline	7,881,788-08	9,294,958-08	1,106,188-07	1,147,221-06	2,832,137-07	3,799,085-09	2,813,331-09	2,588,232-09	3,385,330-10	3,049,090-10	1,210,311,666	6,479,206,666	0.003661131	32,345,879,791		
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 175 Gasoline	1,014,262-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08

Model Output: OFFROAD2021 (v1.0.1) Emissions Inventory  
Region Type: Sub-Area  
Region: Orange (SC)  
Calendar Year: 2025  
Scenario: All Adopted Rules - Exhaust  
Vehicle Classification: OFFROAD2021 Equipment Types  
Units: tons/day for Emissions, gallons/year for Fuel, hour/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower B Fuel	HC_tpd	ROG_tpd	TOC_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption Total	Activity Total	Population	Horsepower_Hours_Nhpy			
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 100 Gasoline	7,881,788-08	9,294,958-08	1,106,188-07	1,147,221-06	2,832,137-07	3,799,085-09	2,813,331-09	2,588,232-09	3,385,330-10	3,049,090-10	1,210,311,666	6,479,206,666	0.003661131	32,345,879,791				
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 175 Gasoline	1,014,262-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08	1,101,372-08		
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 175 Diesel	0.000571898	0.000691996	0.000823333	0.000515757	0.000878338	1.022506751	0.000269497	0.000249737	0.301766206	0.363685066	0.000249737	0.301766206	0.363685066	0.000249737	0.301766206	0.363685066		
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 25 Gasoline	2,439,776-08	2,923,216-08	3,633,776-07	2,851,576-05	4,624,296-07	7,593,296-05	5,120,776-06	4,711,088-08	6,188,448-10	6,190,872-10	2,460,988,889	81,906,664	13,845,248,633	65,075,827				
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 300 Diesel	0.000245338	0.000267833	0.000318743	0.000212427	0.000489242	0.706244517	0.108622505	0.745993421	0.642935604	0.745993421	0.642935604	0.745993421	0.642935604	0.745993421	0.642935604	0.745993421	0.642935604	
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 50 Gasoline	4,902,456-07	7,095,376-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	1,499,036-07	
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 50 Diesel	0.003119962	0.003771553	0.004927453	0.002532433	0.006023886	1.178045651	0.000809299	0.000744555	1.064295608	1.064295608	0.000744555	1.064295608	1.064295608	0.000744555	1.064295608	1.064295608	0.000744555	
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 600 Diesel	0.000131772	0.000137664	0.000138351	0.000137429	0.000911819	0.104141439	0.004788005	0.139396205	0.139396205	0.139396205	0.139396205	0.139396205	0.139396205	0.139396205	0.139396205	0.139396205	0.139396205	
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 750 Diesel	4,724,426-08	5,746,326-08	6,722,926-07	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	4,724,426-08	
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 75 Diesel	0.001672122	0.000282117	0.000243746	0.000857487	0.011815099	1.215437279	0.000883398	0.000812726	1.102750566	0.909566266	0.909566266	0.909566266	0.909566266	0.909566266	0.909566266	0.909566266	0.909566266	0.909566266
Orange (SC)	2025	Agricultural - Agricultural Tractors	Aggregate 750 Diesel	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
Orange (SC)	2025	Agricultural - ATVs	Aggregate 100 Gasoline	1,790,956-05	2,165,996-05	2,577,676-05	0.000691491	6.940266-05	0.045882808	3.421672-06	3.147936-06	4.140066-07	3.708456-07	14,741,134,337	52,255,273-07	1,875,719,409	47,208,754,999				
Orange (SC)	2025	Agricultural - ATVs	Aggregate 175 Gasoline	1,864,936-05	2,256,666-05	2,685,556-05	0.000849889	8.000104907	0.063846848	4.191826-06	4.521536-06	5.953436-07	5.330826-07	21,150,088-07	29,407,117-07	1,645,103,612	67,882,168,839				
Orange (SC)	2025	Agricultural - ATVs	Aggregate 25 Gasoline	0.001365887	0.001652723	0.016906877	0.016906877	0.006621731	0.063245733	5.502438-05	5.062238-05	5.35336-07	5.155566-07	20,936,788	28,923,708	11,353,722,666	65,630,58328				
Orange (SC)	2025	Agricultural - ATVs	Aggregate 25 Diesel	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	0.000454505	
Orange (SC)	2025	Agricultural - ATVs	Aggregate 25 Electric	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
Orange (SC)	2025	Agricultural - ATVs	Aggregate 50 Gasoline	4,204,376-05	5,078,726-05	6,054,296-05	0.002184544	0.000180222	0.068367311	5.137686-06	4.736666-06	6.311816-06	5.568296-06	22,142,227	19,749,668	7,549,397,722	70,884,54943				
Orange (SC)	2025	Agricultural - ATVs	Aggregate 50 Diesel	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	0.000139924	
Orange (SC)	2025	Agricultural - ATVs	Aggregate 50 Electric	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
Orange (SC)	2025	Agricultural - ATVs	Aggregate 75 Diesel	1,221,171-05	1,487,382-05	0.000139924	0.000721216	0.000222226	0.109478954	2.056822-06	1.928035-06	1.928035-06	1.928035-06	9,956,022	9,525,976	35,488,10958	512,43635				
Orange (SC)	2025	Agricultural - ATVs	Aggregate 75 Gasoline	1,169,956-05	1,404,756-05	1,671,776-05	0.000851573	3.154175-05	0.01160354	1.591816-06	1.464446-06	1.925036-07	1.725226-07	68,578,432	99,169,763	1,908,623,322	19,623,13696				
Orange (SC)	2025	Agricultural - Bale Wagons (Self Propelled)	Aggregate 175 Diesel	8,272,828-08	1,001,797-07	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	1,192,227-06	
Orange (SC)	2025	Agricultural - Bale Wagons (Self Propelled)	Aggregate 300 Diesel	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
Orange (SC)	2025	Agricultural - Bale Wagons (Self Propelled)	Aggregate 75 Diesel	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
Orange (SC)	2025	Agricultural - Combine Harvesters	Aggregate 175 Diesel	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	
Orange (SC)	2025	Agricultural - Combine Harvesters	Aggregate 300 Diesel	3,522,181-07	4,288,147-07	5,115,417-06	1,953,316-06	3,700,096-06	0.000738841	1,645,626-07	1,513,972-07	6,600,088-09	5,958,616-09	23,682,226	40,889,554	0.004907121	10,128,167,524				
Orange (SC)	2025	Agricultural - Combine Harvesters	Aggregate 600 Diesel	2,862,156-05	3,463,225-05	4,125,156-05	0.000224606	0.00036617	0.064092728	1,645,626-07	1,513,972-07	6,600,088-09	5,958,616-09	23,682,226	40,889,554	0.004907121	10,128,167,524				
Orange (SC)	2025	Agricultural - Combine Harvesters	Aggregate 999 Diesel	3,195,177-06	3,861,617-06	4,610,047-06	2,433,356-06	4,636,536-06	0.000466541	1,399,766-07	1,287,787-07	5,838,688-09	5,272,036-09	20,566,547	109,517,507	0.002138663	900,813,771				
Orange (SC)	2025	Agricultural - Construction Equipment	Aggregate 100 Diesel	6,544,226-06	7,918,556-06	9,423,676-06	6,659,626-06	6,137,756-06	0.010104873	4,018,966-06	3,697,446-06	9,187,746-06	8,238,588-06	327,488,883	86,628,330	0.006294827	1,044,692,213				
Orange (SC)	2025	Agricultural - Construction Equipment	Aggregate 175 Diesel	5,380,746-06	6,510,706-06	7,782,776-06	5,009,186-06	4,000,610-06	0.10353936	2,509,976-06	2,386,696-06	9,402,226-07	8,414,616-07	335,608	183,038,634	0.001893766	1,600,839,367				
Orange (SC)	2025	Agricultural - Construction Equipment	Aggregate 300 Diesel	7,884,946-06	9,542,666-06	1,135,656-05	0.00128067	8,318,876-05	0.01403206	8,809,026-06	3,584,606-06	1,247,476-07	1,142,496-07	454,147,828	134,216,564	0.119371316	21,655,54976				
Orange (SC)	2025	Agricultural - Construction Equipment	Aggregate 300 Diesel	1,742,426-06	2,059,426-06	2,426,426-06	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268	0.00014268
Orange (SC)	2025	Agricultural - Construction Equipment	Aggregate 600 Diesel	4,388,116-06	5,284,466-06	6,290,666-06	3,619,026-05	4,419,956-05	0.002736927	2,065,316-06	1,900,096-06	6,582,488-08	5,900,328-08	234,541,472	46,833,248	0.003716026	11,183,854,62				
Orange (SC)	2025	Agricultural - Construction Equipment	Aggregate 75 Diesel	1,636,676-07	1,980,376-07	2,356,887-07	1,210,946-06	1,496,116-06	0.001980731	7,512,458-06	6,911,468-06	1,782,046-06	1,598,588-06	6,354,637	134,884,229	0.000160354	272,556,666				
Orange (SC)	2025	Agricultural - Cotton Pickers	Aggregate 600 Diesel	0.000000000	0.000000000	0.0000															



Orange (SC)	2025 Airport Ground Support - Misc - Maint. Truck	Aggregate	175 Gasoline	0.000163129	0.000179514	0.000179514	0.014828256	0.000123215	0.014828256	3.00255E-05	2.26895E-05	4.16062E-06	5.85892E-06	16724.3	2822.4	6.9	368212
Orange (SC)	2025 Airport Ground Support - Misc - Other	Aggregate	50 Gasoline	0.000134421	0.000126441	0.000147922	0.010042662	0.000281397	0.100827022	6.95092E-02	5.25818E-06	1.25807E-06	1.55104E-06	4427.45	1708.2	9.3	89425
Orange (SC)	2025 Airport Ground Support - Misc - Other	Aggregate	50 Nit Gas	0.0	0	0	1.45484E-05	0.000168456	0.000056032	0.01170268	0	0	0	481.8	1785.5	0	1.75
Orange (SC)	2025 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Gasoline	4.70616E-06	4.33056E-07	0	1.8104E-06	0.00049117	0.18204E-06	9.69544E-06	7.32545E-06	1.19693E-06	1.88861E-06	5391.0	795.7	0	9544.07
Orange (SC)	2025 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Nit Gas	0	0	0	8.74269E-09	9.97392E-06	9.87417E-07	0	0	0	0	3.65	0	0	0
Orange (SC)	2025 Airport Ground Support - Misc - Service Truck	Aggregate	300 Gasoline	0.000827603	0.000671229	0.000910726	0.05095568	0.004971849	0.121519053	8.96392E-05	6.77224E-05	1.71919E-05	4.80742E-05	15271.6	17.8	17.8	274888
Orange (SC)	2025 Airport Ground Support - Misc - Service Truck	Aggregate	300 Nit Gas	0	0	0	1.03623E-05	0.005979562	0.000514657	0.169654451	0	0	0	9292.9	2314.1	0	41638
Orange (SC)	2025 Airport Ground Support - Misc - Sweeper	Aggregate	125 Gasoline	6.53969E-06	6.06487E-07	0	0.000299397	3.31883E-12	0.009522315	6.63919E-07	5.01627E-07	7.86127E-06	1.34262E-07	38.7	153.3	0	0.4
Orange (SC)	2025 Airport Ground Support - Misc - Sweeper	Aggregate	50 Nit Gas	0	0	0	8.80679E-08	2.41537E-05	6.52789E-06	0.002018454	0	0	0	94.9	47.45	0	0.15
Orange (SC)	2025 Airport Ground Support - Misc - Water Truck	Aggregate	175 Gasoline	1.37305E-05	1.26293E-05	1.51096E-05	0.001148782	0.003778713	2.42157E-06	0.000162623	1.82963E-06	4.74391E-07	1.35415E-06	492.75	0.58	0.58	73912.5
Orange (SC)	2025 Airport Ground Support - Other	Aggregate	100 Diesel	3.84772E-05	4.41375E-05	5.25272E-05	0.000847997	0.000526837	0.132229374	1.33442E-05	1.96367E-05	1.07924E-06	4.290336401	3006.844235	6.1356395926	24278.412	0
Orange (SC)	2025 Airport Ground Support - Other	Aggregate	175 Diesel	8.65909E-05	0.000104666	0.000124561	0.000414995	0.000393717	0.346887458	3.73688E-05	8.47935E-05	3.20455E-06	2.83125E-06	11254.38355	4206.45218	8.1735816567	34873.366
Orange (SC)	2025 Airport Ground Support - Other	Aggregate	25 Diesel	1.29526E-06	1.57898E-06	1.86964E-06	8.83043E-09	5.15164E-05	0.002395181	5.3539E-06	0.00256E-07	2.11657E-06	1.87194E-08	74.005828	154.35176	0	0.11881573
Orange (SC)	2025 Airport Ground Support - Other	Aggregate	300 Diesel	8.45955E-05	0.000123631	0.000121817	0.000839558	0.000851585	0.36997868	3.4514E-05	1.31752E-05	3.41808E-06	3.0197E-06	12003.49566	3104.734561	6.447514714	69194.71784
Orange (SC)	2025 Airport Ground Support - Other	Aggregate	50 Diesel	0.000125958	0.000152409	0.000133112	0.0001158084	0.182210517	4.68838E-05	4.31331E-05	1.68085E-06	1.48718E-06	5.911.619547	8979.445624	18.46090778	306519.1782	0
Orange (SC)	2025 Airport Ground Support - Other	Aggregate	600 Diesel	5.19043E-05	6.28031E-05	7.47408E-05	0.000526355	0.000524478	0.227127669	2.13291E-05	1.96228E-06	2.04884E-06	1.81008E-06	7199.169993	1154.942213	2.931858073	41748.8525
Orange (SC)	2025 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	2.99647E-05	3.32571E-05	4.31481E-05	0.000475169	0.000393517	0.000439928	1.91528E-06	1.70266E-05	6.50503E-07	5.7402E-07	2385.34247	2099.124039	4.473364658	131736.917
Orange (SC)	2025 Airport Ground Support - Passenger Stand	Aggregate	175 Diesel	5.77554E-07	6.98884E-07	8.74468E-07	4.55033E-06	8.000873922	5.44353E-07	5.89898E-06	1.96228E-07	1.81008E-06	1.81008E-06	28.3543539	11260.93344	0.206453787	1388.37475
Orange (SC)	2025 Airport Ground Support - Passenger Stand	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Airport Ground Support - Passenger Stand	Aggregate	300 Diesel	1.88433E-07	2.28004E-07	2.71344E-07	1.28293E-06	4.29164E-06	0.000728851	9.19833E-08	8.46424E-06	6.73294E-09	5.94879E-09	23.6467828	4.28516674	0.112871573	1167.70397
Orange (SC)	2025 Airport Ground Support - Passenger Stand	Aggregate	50 Diesel	1.12411E-06	1.36017E-06	1.6372E-06	1.02717E-05	1.76598E-05	0.00187313	6.47699E-07	5.95887E-07	1.71381E-08	1.51931E-08	60.2584807	61.63078046	1.02279946	2664.491472
Orange (SC)	2025 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	2.1082E-07	2.79609E-07	3.32758E-07	1.23226E-05	6.38278E-06	0.00211835	4.2417E-08	3.90326E-08	1.57839E-08	1.72897E-08	68.7272955	59.90233436	1.580020025	3393.852058
Orange (SC)	2025 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	100 Diesel	3.49E-05	0.0000422	0.0000502	0.000165997	0.000920103	0.127248585	0.00004	0.0000382	0	0	4129.480957	1584.309448	1.578340313	17196.61739
Orange (SC)	2025 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	50 Diesel	0.0000518	0.0000625	0.0000744	0.000369956	0.001133796	0.101520299	5.17E-05	0.0000493	0	0	5239.774802	5652.328944	4.784662168	87844.7168
Orange (SC)	2025 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	75 Diesel	0.000078772	0.0000988	0.000120087	0.000485239	0.001506672	0.000802224	0.0000222	0	0	0	2848.189374	1884.309448	1.587450246	49515.65024
Orange (SC)	2025 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	25 Diesel	0.000286381	0.00034671	0.000412384	0.001157687	0.001754445	0.163816167	0.0007361	0.0001303	0	0	5315.00071	11062.21865	6.4203055	92409.8978
Orange (SC)	2025 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	50 Diesel	0.001883503	0.002279001	0.002712114	0.007150308	0.119932465	0.001126217	1.19932465	0.000176029	0	0	38906.512	42036.67879	25.471615	66971.6594
Orange (SC)	2025 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	75 Diesel	0.000895512	0.001186393	0.001419334	0.003590329	0.012109878	1.44408985	0.000716949	0.00088333	0	0	45561.85089	28761.93627	17.12746605	80523.2396
Orange (SC)	2025 Commercial Harbor Craft - AE - Crew/Supply	Aggregate	50 Diesel	0.000141885	0.000171881	0.000204314	0.000848553	0.002299547	0.43995744	0.000127263	0.000211663	0	0	14272.37305	15178.02632	7.123466004	238817.4844
Orange (SC)	2025 Commercial Harbor Craft - AE - Excursion	Aggregate	100 Diesel	0.000320124	0.000387168	0.000460235	0.001412137	0.004396508	0.000888324	0.0000422	0.00000303	0	0	2913.28928	1473.569974	0.60284817	62048.7158
Orange (SC)	2025 Commercial Harbor Craft - AE - Excursion	Aggregate	25 Diesel	3.29777E-05	3.99614E-05	4.74565E-05	0.000120711	0.000211584	0.022716592	1.51574E-05	1.44666E-05	0	0	736.9348283	3335.150353	5.102429667	11761.97355
Orange (SC)	2025 Commercial Harbor Craft - AE - Excursion	Aggregate	300 Diesel	0.00082869	0.000995734	0.00118185	0.000821964	0.012705811	1.19865621	0.00052388	0.00050343	0	0	38884.2858	8115.24267	15.10727894	751594.1607
Orange (SC)	2025 Commercial Harbor Craft - AE - Excursion	Aggregate	50 Diesel	0.000326986	0.000395707	0.000470932	0.001402683	0.002996382	0.380146832	0.000168811	0.000115132	0	0	12332.0973	15538.9014	25.12139026	205775.436
Orange (SC)	2025 Commercial Harbor Craft - AE - Excursion	Aggregate	600 Diesel	0.00003143	0.000036782	0.000043682	0.001808399	0.004637166	0.000258516	0.000055416	0.000204132	0	0	32240.41943	4151.633837	5.102429667	624624.6276
Orange (SC)	2025 Commercial Harbor Craft - AE - Excursion	Aggregate	75 Diesel	0.000065296	0.000081927	0.000097716	0.000364319	0.000296262	0.000387941	0.00005436	0.00004284	0	0	8049.897461	3548.810303	2.155594049	2683.94517
Orange (SC)	2025 Commercial Harbor Craft - AE - Research Boat	Aggregate	50 Diesel	0.0000467	0.0000565	0.0000673	0.0000439	0.0000954	0.012758453	0.00000489	0.00000465	0	0	413.8887024	421.2630615	0.40625	7196.016265
Orange (SC)	2025 Commercial Harbor Craft - AE - Research Boat	Aggregate	75 Diesel	0.0000333	0.0000403	0.0000488	0.000120374	0.000168508	0.017992692	0.0000211	0.0000022	0	0	583.889229	421.2630615	0.40625	10148.22754
Orange (SC)	2025 Commercial Harbor Craft - AE - Work Boat	Aggregate	75 Diesel	3.9E-07E-05	7.39E-05E-05	0.00025812	0.00063585	0.002925439	0.00065585	1.62E-05E-05	1.746E-05E-05	6.50052E-07	5.7402E-07	2690.120317	4601.041651	6.77135469	46771.55469
Orange (SC)	2025 Commercial Harbor Craft - AE - Work Boat	Aggregate	800 Diesel	0.000206882	0.000253715	0.000301242	0.001602156	0.004854301	0.796780953	0.00019562	0.000186957	0	0	25847.85184	2200.807641	3.688023	499605.3403
Orange (SC)	2025 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	300 Diesel	0.000827036	0.00100062	0.001190754	0.003254667	0.01443784	0.000936604	0.000379122	0	0	29891.95822	9472.179846	9.500274162	57814.6951	
Orange (SC)	2025 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	600 Diesel	0.0023951	0.00355298	0.004227806	0.012517017	0.051661181	4.705534003	0.001520057	0.001453222	0	0	12649.74018	28416.54293	29.50217618	295903.6071
Orange (SC)	2025 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	800 Diesel	0.000103903	0.000125723	0.000149682	0.000740883	0.002397672	0.413541555	0.0000425	0.00005406	0	0	13415.43262	1578.096655	1.584540313	260031.3422
Orange (SC)	2025 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	175 Diesel	0.000024303	0.000029734	0.000036284	0.000148324	0.000489896	0.000086241	0.000045926	0	0	2913.28928	1473.569974	0.60284817	62048.7158	
Orange (SC)	2025 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	300 Diesel	0.000770001	0.000931719	0.00118888	0.003498804	0.020237735	0.205763126	0.00042277	0.000045698	0	0	65774.99183	15994.176666	13.4066113	1721345.013
Orange (SC)	2025 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	600 Diesel	0.004892315	0.005919707	0.007049433	0.020591674	0.070474626	8.6596604	0.00258982	0.000248433	0	0	28922.4113	46383.11267	38.877228	543695.831
Orange (SC)	2025 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	800 Diesel	0.008857903	0.010717929	0.012755365	0.034899042	0.104412423	6.057467107	0.004882791	0.004476729	0	0	196506.1803	20792.43226	17.4279488	380022.6166
Orange (SC)	2025 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	100 Diesel	0.000021058	0.000026386	0.000032315	0.000149388	0.000495423	0.000092638	0.000014952	0.000001423	0	0	15845.63247	18994.178829	12.405115	528898.026
Orange (SC)	2025 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	350 Diesel	0.000243203	0.000293794	0.000354274	0.000856552	0.001681818	0.124247803	0.000015749	0.000148896	0	0	4025.84262	5545.531226	3.666673037	66499.8478
Orange (SC)	2025 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	800 Diesel	0.001592026	0.001862101	0.002216184	0.006668552	0.039853242	4.864925641	0.000714346	0.000682855	0	0	27681.85759	19597.09846	18.0200212	305714.25
Orange (SC)	2025 Commercial Harbor Craft - ME - Excursion	Aggregate	100 Diesel	0.0001063	0.0001288	0.000152358	0.000429279	0.001197658	0.13473155	7.588E-05	7.255E-05	0	0	4370.920506	3610.067691	5.102429667	7739.85951
Orange (SC)	2025 Commercial Harbor Craft - ME - Excursion	Aggregate	300 Diesel	0.00061778	0.000747286	0.000889286	0.002748996	0.018390323	1.67981001	0.00033511	0.000318967	0	0	54493.65404	55173.51683	22.96001823	105045.272
Orange (SC)	2025 Commercial Harbor Craft - ME - Excursion	Aggregate	600 Diesel	0.000021058	0.000026386	0.000032315	0.000149388	0.000495423	0.000092638	0.000014952	0.000001423	0	0	15845.63247			



Orange (SC)	2025 Construction and Mining - Misc - Trenchers	Aggregate	25 Diesel	0.00229592	0.00231887	0.00225612	0.00780748	0.00147983	2.64316E-06	0.00058582	0.00064704	1.20311E-06	1.66378E-06	4742.017404	0	0	0	0	14.26290638	0	
Orange (SC)	2025 Construction and Mining - Misc - Trenchers	Aggregate	25 Diesel	0.000119317	0.000143512	0.00017152	0.000489828	0.000090886	2.09328E-06	0.04975E-05	0.00000000	2.30425E-05	1.24426E-08	1.07182E-08	0	0	0	0	42.64374616	0	
Orange (SC)	2025 Construction and Mining - Misc - Trenchers	Aggregate	5 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2025 Construction and Mining - Misc - Trenchers	Aggregate	100 Diesel	0.001995395	0.001835364	0.002195811	0.148627843	0.000271743	0.97613362	6.72938E-06	5.08442E-05	1.1868E-06	1.61395E-05	46070.3	20845.15	0	0	0	0	51.79	62354.5
Orange (SC)	2025 Construction and Mining - Off-Highway Tractors	Aggregate	100 Diesel	0.0003588	0.000541267	0.000541267	0.000541267	0.00023563	1.13034934	0.000231883	0.00021332	1.04394E-06	9.22575E-06	36672.89387	56000.42228	0	0	0	0	20.77802802	162273.1405
Orange (SC)	2025 Construction and Mining - Off-Highway Tractors	Aggregate	175 Diesel	0.00044502	0.000533007	0.000534322	0.009558621	0.00120264	1.610368874	0.000196688	0.000189533	1.48754E-06	1.131436E-06	52246.64463	14642.22626	0	0	0	0	15.00027582	232124.3757
Orange (SC)	2025 Construction and Mining - Off-Highway Tractors	Aggregate	25 Diesel	4.10302E-06	4.99446E-06	5.90835E-06	1.36423E-05	9.39396E-06	0.000717848	1.29148E-06	1.18816E-06	6.51377E-09	5.85898E-09	23.28978941	37.22252908	0	0	0	0	0.778603686	930.563227
Orange (SC)	2025 Construction and Mining - Off-Highway Tractors	Aggregate	300 Diesel	0.00039424	0.000494233	0.000494233	0.000494233	0.00069498	1.57935869	0.000106375	9.83213E-05	1.25359E-06	1.10782E-06	44036.61618	9158.39939	0	0	0	0	13.7911883	195363.6794
Orange (SC)	2025 Construction and Mining - Off-Highway Tractors	Aggregate	50 Diesel	0.001074007	0.001295448	0.00154567	0.011618565	0.009283068	1.477827829	0.000224667	0.000323718	1.36311E-06	1.20618E-06	47946.49638	50931.34575	0	0	0	0	75.09885511	919662.382
Orange (SC)	2025 Construction and Mining - Off-Highway Tractors	Aggregate	600 Diesel	0.000900282	0.001089341	0.001296406	0.009088004	0.006484111	4.555465716	0.000022464	0.00002467	4.20905E-06	3.78111E-05	147797.0682	18358.43051	0	0	0	0	25.9170272	6576784.663
Orange (SC)	2025 Construction and Mining - Off-Highway Tractors	Aggregate	75 Diesel	0.000430313	0.000523946	0.00062339	0.005516279	0.004782137	0.762327115	0.000287778	0.000205676	7.03511E-06	6.22021E-06	24732.86371	15662.49579	0	0	0	0	26.44173108	110652.101
Orange (SC)	2025 Construction and Mining - Off-Highway Tractors	Aggregate	750 Diesel	7.86672E-05	9.29413E-05	0.00019537	0.000397374	0.000624517	1.95065979	3.22698E-05	2.96882E-05	1.75999E-06	1.55537E-06	6182.70337	434.770008	0	0	0	0	0.645417476	276436.9794
Orange (SC)	2025 Construction and Mining - Off-Highway Tractors	Aggregate	999 Diesel	0.000470179	0.000545616	0.000810844	0.000844984	0.010129666	1.780433709	0.000166883	0.000152922	2.69195E-05	2.18165E-05	7791.405889	22.6365411	0	0	0	0	0.386029216	346050.9737
Orange (SC)	2025 Construction and Mining - Off-Highway Trucks	Aggregate	100 Diesel	4.98836E-05	6.05391E-05	7.18324E-05	0.000758377	0.000526438	0.13871665	0.04435E-05	2.8008E-05	9.56999E-07	8.46154E-07	3363.512995	1922.487068	0	0	0	0	1.335742834	16951.9065
Orange (SC)	2025 Construction and Mining - Off-Highway Trucks	Aggregate	175 Diesel	0.001512724	0.001400302	0.001666475	0.021490556	0.003823827	3.03751172	0.000344401	0.000399649	3.12845E-06	2.76484E-06	109904.0871	35347.98058	0	0	0	0	0.559340793	5577040.973
Orange (SC)	2025 Construction and Mining - Off-Highway Trucks	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2025 Construction and Mining - Off-Highway Trucks	Aggregate	300 Diesel	0.002023123	0.002449066	0.002913705	0.016183114	0.015067954	6.898493552	0.000579448	0.000532165	6.37193E-06	5.63046E-06	223814.2874	54034.50864	0	0	0	0	0.414080278	1136645.007
Orange (SC)	2025 Construction and Mining - Off-Highway Trucks	Aggregate	50 Diesel	0.000137908	0.000166869	0.000198588	0.001381128	0.000968449	1.43201011	0.55322E-05	4.18712E-05	1.51894E-06	1.16879E-06	4646.028264	7401.174099	0	0	0	0	0.47866715	21338.2157
Orange (SC)	2025 Construction and Mining - Off-Highway Trucks	Aggregate	600 Diesel	0.008205633	0.009288116	0.01181611	0.065687269	0.060753048	29.57160697	0.002153665	0.0001981372	0.000273158	0.000243136	959418.3085	129144.5503	0	0	0	0	0.92340179	480520.201
Orange (SC)	2025 Construction and Mining - Off-Highway Trucks	Aggregate	75 Diesel	1.4655E-05	1.77325E-05	2.11032E-05	0.000258989	0.000123764	0.03999604	2.01688E-06	1.85535E-06	3.32718E-07	1.284.649904	9244.501354	0	0	0	0	0	0.628584863	65706.75548
Orange (SC)	2025 Construction and Mining - Off-Highway Trucks	Aggregate	750 Diesel	0.003664905	0.00442909	0.005270983	0.030129454	0.031961286	10.11993881	0.001242006	0.001120285	9.35454E-05	8.2598E-05	23832.0539	24950.2880	0	0	0	0	0.190042319	1695695.38
Orange (SC)	2025 Construction and Mining - Off-Highway Trucks	Aggregate	100 Diesel	0.000190155	0.001329977	0.001596433	0.011978131	0.000769194	0.000783211	0.000769194	0.000769194	1.21708E-06	1.92482E-06	76512.85285	43259.35724	0	0	0	0	0.52486355	3562601.611
Orange (SC)	2025 Construction and Mining - Other	Aggregate	175 Diesel	0.000510448	0.000617642	0.000735045	0.008165407	0.006990939	1.36164797	0.000296207	0.00027251	1.26156E-06	1.11505E-06	44233.71228	13801.32191	0	0	0	0	0.260663519	206822.403
Orange (SC)	2025 Construction and Mining - Other	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2025 Construction and Mining - Other	Aggregate	300 Diesel	0.000601744	0.000718241	0.000835651	0.007819775	0.00717556	1.84951306	0.000296207	0.000296207	1.78018E-06	1.50956E-06	60005.93628	13600.04263	0	0	0	0	0.302752114	2789955.326
Orange (SC)	2025 Construction and Mining - Other	Aggregate	50 Diesel	0.00086434	0.001014306	0.001210008	0.006598762	0.005825069	8.80043755	0.00062336	0.00033353	7.3751E-06	6.53311E-06	25960.51609	26384.41396	0	0	0	0	0.58101267	1078724.333
Orange (SC)	2025 Construction and Mining - Other	Aggregate	600 Diesel	0.001734566	0.002098825	0.002497776	0.010773113	0.015009346	7.110888591	0.000710316	0.000663353	6.56917E-06	5.80381E-06	23704.94451	3760.17433	0	0	0	0	0.636783016	107278.177
Orange (SC)	2025 Construction and Mining - Other	Aggregate	75 Diesel	0.000233416	0.000282433	0.000338118	0.001380883	0.000128739	0.000115729	0.000188738	1.38825E-06	1.23172E-06	4.896.155029	3152.30465	0	0	0	0	0	9.930977242	23025.1979
Orange (SC)	2025 Construction and Mining - Other	Aggregate	750 Diesel	0.0000254	0.000311333	0.000382175	0.002316613	0.001612109	1.04625285	0.000106833	9.78261E-06	1.02048E-06	9.0158E-06	3588.35083	2699.30485	0	0	0	0	0.513776641	16651.8827
Orange (SC)	2025 Construction and Mining - Pavers	Aggregate	999 Diesel	0.00039424	0.000494233	0.000494233	0.000494233	0.00069498	1.57935869	0.000106375	9.83213E-05	1.25359E-06	1.10782E-06	44036.61618	9158.39939	0	0	0	0	0.175473378	58807.36008
Orange (SC)	2025 Construction and Mining - Pavers	Aggregate	100 Diesel	0.00030467	0.000368651	0.000438725	0.00512409	0.003934996	0.7831791	0.000207228	0.00019065	7.23117E-06	6.3917E-06	25407.39814	14613.28116	0	0	0	0	0.367852004	1185550.744
Orange (SC)	2025 Construction and Mining - Pavers	Aggregate	175 Diesel	0.000373287	0.000451678	0.000537334	0.000737451	0.0004100251	1.29272072	0.00019509	0.000179483	1.19406E-06	1.0551E-06	41940.9009	12346.40766	0	0	0	0	0.183005213	1949784.159
Orange (SC)	2025 Construction and Mining - Pavers	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2025 Construction and Mining - Pavers	Aggregate	300 Diesel	0.000168338	0.000203831	0.000242695	0.001859463	0.001868128	6.70181E-06	6.16556E-06	5.80231E-06	8.02051E-06	7.18025E-06	31882.01706	6770.70863	0	0	0	0	0.14670201	1483600.73
Orange (SC)	2025 Construction and Mining - Pavers	Aggregate	50 Diesel	0.000126169	0.000151269	0.000181863	0.000879533	0.000686736	1.9097633E-06	4.40659E-06	9.01935E-07	7.99898E-07	3.178.37285	3491.498508	0	0	0	0	0	0.911991507	12925.8607
Orange (SC)	2025 Construction and Mining - Pavers	Aggregate	600 Diesel	3.6145E-05	4.3777E-05	5.18690E-05	0.000395683	0.000420581	0.213088211	1.28231E-05	1.19792E-05	1.96903E-06	1.7392E-06	6913.412319	888.802197	0	0	0	0	0.156803154	321894.9084
Orange (SC)	2025 Construction and Mining - Pavers	Aggregate	75 Diesel	0.000153871	0.000186184	0.00021575	0.001410404	0.001150491	0.161509786	0.000129222	0.000118883	1.48826E-06	1.31822E-06	5240.007146	407.673309	0	0	0	0	0.760092144	245457.9776
Orange (SC)	2025 Construction and Mining - Paving Equipment	Aggregate	750 Diesel	3.72136E-06	4.50202E-06	5.36153E-06	6.84845E-05	1.84849E-05	0.03789266	6.5446E-07	6.02726E-07	3.50225E-07	3.09275E-07	1229.385628	76.29874878	0	0	0	0	0.158666265	57224.06158
Orange (SC)	2025 Construction and Mining - Paving Equipment	Aggregate	100 Diesel	0.000265123	0.000299906	0.000337975	0.002361794	0.002187974	0.22234332	8.83398E-06	8.20201E-05	7.82315E-06	6.74436E-06	1691.323874	10236.03552	0	0	0	0	0.215346068	121200.2109
Orange (SC)	2025 Construction and Mining - Paving Equipment	Aggregate	175 Diesel	0.00016733	0.000202469	0.000240555	0.001316662	0.00179394	0.000563867	9.11061E-05	8.38176E-05	4.90662E-06	4.41016E-06	17530.63459	4500.94083	0	0	0	0	0.156866395	92740.5326
Orange (SC)	2025 Construction and Mining - Paving Equipment	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2025 Construction and Mining - Paving Equipment	Aggregate	300 Diesel	8.58875E-05	0.0001039	0.000123649	0.000740437	0.000943738	0.357120972	3.76489E-05	3.46701E-05	3.29918E-06	2.91477E-06	11586.39663	2751.89421	0	0	0	0	0.579472593	629980.804







Orange (SC)	2025 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	500 Gasoline	0.00032676	0.000336002	0.000366089	0.003764808	0.000375066	0.037036771	3.86535e-06	2.92049e-06	4.20214e-07	5.8005e-07	1645.339734	0	1.862104143	0
Orange (SC)	2025 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	750 Gasoline	0.00137523	0.001388882	0.001513357	0.006350527	0.000650542	0.069443945	7.24752e-06	5.47919e-06	7.99527e-07	1.10364e-06	3141.281592	0	1.862104143	0
Orange (SC)	2025 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	120 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	15 Gasoline	0.000192004	0.000192106	0.000209308	0.002374063	8.93111e-05	0.017786878	1.43032e-06	1.08069e-06	2.80931e-07	3.87799e-07	827.3087104	0	66.35286149	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	175 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	25 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	250 Gasoline	0.002620158	0.002646355	0.002883336	0.022330114	0.000229254	0.249131118	2.48678e-05	1.8789e-05	2.85518e-06	3.9412e-06	10941.79705	0	51.91270455	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	50 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	50 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	500 Gasoline	0.024089485	0.024330308	0.026509090	0.265177455	0.009462504	2.92158037	0.000304011	0.000233078	3.28056e-05	4.52839e-05	127645.5489	0	424.3454292	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	750 Gasoline	7.27262e-05	7.34902e-05	8.00708e-05	0.001206497	2.49195e-05	0.018776474	1.95961e-06	1.48059e-06	1.9886e-07	2.74501e-07	780.5028441	0	1.636315266	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	120 Gasoline	0.00060284	0.006123468	0.006671785	0.017818745	0.000219159	0.054220226	0.000297025	0.000224419	9.89943e-07	1.36566e-06	3818.337018	0	36.17855006	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	15 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	175 Gasoline	0.001085101	0.001095952	0.001194087	0.009965673	0.000410053	0.051615171	2.48484e-05	1.87744e-05	6.81305e-07	9.40453e-07	2650.438048	0	20.91350301	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	25 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	250 Gasoline	0.003277125	0.003309896	0.003606276	0.031800232	0.001394208	0.206522888	0.000369062	0.000278847	2.55082e-06	3.52108e-06	9993.152085	0	66.37215016	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	500 Gasoline	0.006212232	0.006277027	0.006836262	0.013961527	0.000102062	0.038035592	0.000305051	0.000233078	8.20444e-06	1.13251e-06	3045.412286	0	58.0434698	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	500 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	750 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	120 Gasoline	0.090601415	0.091507429	0.099701331	0.315859137	0.011606638	1.589099832	0.00717888	0.0054876	2.33135e-05	3.21813e-05	89908.99864	0	542.9814723	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	15 Gasoline	0.013593937	0.013728876	0.014959828	0.050999788	0.001253978	0.170971822	0.000724764	0.0005476	3.38989e-06	4.67861e-06	11082.34555	0	568.2152349	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	175 Gasoline	0.041876715	0.042295483	0.046082771	0.187519704	0.008570335	0.004432833	0.003350348	1.27312e-05	1.75738e-05	49626.13931	0	651.1259565	0	
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	25 Gasoline	0.016292568	0.016694864	0.018189782	0.04251994	0.001445997	0.169192945	0.000990999	0.000754875	3.02674e-06	4.17803e-06	10953.77678	0	243.4166374	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	250 Gasoline	0.039434483	0.039828822	0.043395254	0.195466208	0.012126181	1.169707400	0.008406238	0.000351554	1.54122e-06	2.12745e-06	60215.83218	0	148.0819289	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	50 Gasoline	0.039077277	0.03946805	0.04300216	0.109656028	0.0042715	0.492116672	0.00277638	0.000297709	7.97907e-06	1.10141e-05	29867.85518	0	356.734266	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	50 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	500 Gasoline	0.014482504	0.014627329	0.015937112	0.19494095	0.006998089	0.807652527	0.001927398	0.001456256	1.10662e-05	1.52755e-05	43433.9777	0	86.64784	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	750 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	120 Gasoline	6.80273e-07	6.87078e-07	7.48599e-07	5.77808e-06	3.36599e-07	0.00011667	1.02047e-08	7.71022e-09	1.21666e-09	1.67945e-09	4.59223596	0	0.06361444	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	15 Gasoline	0.000464385	0.000469028	0.000511027	0.007607879	0.000485342	0.058749834	8.44497e-06	6.38065e-06	9.37682e-07	1.29435e-06	2697.573478	0	280.1940226	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	175 Gasoline	0.003517458	0.003552632	0.003870747	0.039450094	0.010343057	0.688807681	6.89936e-05	5.21285e-05	7.4127e-06	1.02323e-05	28349.02913	0	248.4667814	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	25 Gasoline	0.003944483	0.039828822	0.043395254	0.195466208	0.012126181	1.169707400	0.008406238	0.000351554	1.54122e-06	2.12745e-06	60215.83218	0	148.0819289	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	250 Gasoline	0.016236037	0.016398398	0.017866768	0.180290999	0.014429498	1.663460804	0.000166043	0.000125455	1.94648e-05	2.68687e-05	74723.91592	0	478.3797875	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	500 Gasoline	0.0199852	0.020185052	0.021994943	0.136999382	0.007805543	2.845834136	0.000297006	0.000224404	3.00335e-05	4.14849e-05	116768.3744	0	577.7488875	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2025 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	750 Gasoline	0.00170654	0.001725266	0.001801845	0.003185774	0.000524646	0.089497932	9.34046e-06	7.05742e-06	9.54907e-07	1.31813e-06	3747.138065	0	9.956789671	0
Orange (SC)	2025 Portable Equipment - Non-Rental Compressor	Aggregate	100 Diesel	0.000213794	0.00025869	0.000307863	0.006540575	0.000259731	0.980365236	0.000236001	0.00017121	9.05755e-06	8.00161e-06	31806.87041	24435.67116	58.78683615	1989139.629
Orange (SC)	2025 Portable Equipment - Non-Rental Compressor	Aggregate	175 Diesel	0.00028416	0.000343833	0.00040919	0.011377599	0.00269147	2.056572767	0.000104892	9.65002e-05	1.90055e-05	1.67855e-05	66723.23364	31622.63327	76.07649972	4172740.873
Orange (SC)	2025 Portable Equipment - Non-Rental Compressor	Aggregate	300 Gasoline	0.000171527	0.000207548	0.000246999	0.003367229	0.001115042	1.234403057	4.77232e-05	4.39139e-05	1.13987e-05	1.00673e-05	40017.93843	9216.212996	22.17027029	2502403.805
Orange (SC)	2025 Portable Equipment - Non-Rental Compressor	Aggregate															



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Equipment Type	Horsepower	Gas				Diesel				Natural Gas							
		Fuel (Gal/Yr)	Population	CO2 (Mts/Yr)	Gal/Hr	Fuel (Gal/Yr)	Population	CO2 (Mts/Yr)	Gal/Hr	Fuel (Gal/Yr)	Population	CO2 (Mts/Yr)	Gal/Hr				
Air Compressors25	Air Compressors	25	3999.740404	32.10549513	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors50	Air Compressors	50	52698.7	48.55	23469.5	2.245412131	92432.6	111.35	90647.75	1.019689954	0	0	0	0	0	0	0
Air Compressors75	Air Compressors	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors100	Air Compressors	100	285619.8	157.42	76091.55	3.753639316	0	0	0	0	0	0	0	0	0	0	0
Air Compressors175	Air Compressors	175	3504.3	10.29	5113.65	6.853679546	0	0	0	0	0	0	0	0	0	0	0
Air Compressors300	Air Compressors	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors600	Air Compressors	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors750	Air Compressors	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors9999	Air Compressors	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts25	Aerial Lifts	25	2666.340202	14.8179738	0	0	19.57694422	9.129513641	0	54815.7	123.58	46376.9	1.181961278	0	0	0	0
Aerial Lifts50	Aerial Lifts	50	7372.7	128.62	46479.1	1.586147322	125209.2629	490.5481246	153144.2445	0.817590392	0	0	0	0	0	0	0
Aerial Lifts75	Aerial Lifts	75	0	0	0	0	133855.8885	376.4187119	117057.8466	1.143502143	0	0	0	0	0	0	0
Aerial Lifts100	Aerial Lifts	100	132482.95	128.62	46479.1	2.849301084	84619.45564	217.8413353	68053.22695	1.243434065	0	0	0	0	0	0	0
Aerial Lifts175	Aerial Lifts	175	0	0	0	0	1333.35518	20.6034823	6422.282173	1.079067449	0	0	0	0	0	0	0
Aerial Lifts300	Aerial Lifts	300	0	0	0	0	797.905646	6.94499469	217.6952514	3.665242855	0	0	0	0	0	0	0
Aerial Lifts600	Aerial Lifts	600	0	0	0	0	566.6288734	0.231499823	72.56508379	7.805650865	0	0	0	0	0	0	0
Bore/Drill rigs25	Bore/Drill rigs	25	217.8352	2.296190944	0	0	9.120892524	1.435019315	0	0	0	0	0	0	0	0	0
Bore/Drill rigs50	Bore/Drill rigs	50	689.85	2.49	277.4	2.486842105	2755.079057	6.486893802	2381.611572	1.13681288	0	0	0	0	0	0	0
Bore/Drill rigs75	Bore/Drill rigs	75	0	0	0	0	1161.133949	1.90209667	687.3345125	1.68932745	0	0	0	0	0	0	0
Bore/Drill rigs100	Bore/Drill rigs	100	7862.1	11.47	1230.05	6.391691395	15780.04377	17.75360409	7460.741747	2.115077066	0	0	0	0	0	0	0
Bore/Drill rigs175	Bore/Drill rigs	175	2737.5	2.84	292	9.375	19997.07955	15.70511131	5122.983658	3.903404906	0	0	0	0	0	0	0
Bore/Drill rigs300	Bore/Drill rigs	300	0	0	0	0	2870.04693	15.84167749	5314.651981	5.400324807	0	0	0	0	0	0	0
Bore/Drill rigs600	Bore/Drill rigs	600	0	0	0	0	3975.672741	12.42723289	4034.851333	9.84685379	0	0	0	0	0	0	0
Bore/Drill rigs750	Bore/Drill rigs	750	0	0	0	0	34711.58996	3.482437725	2995.902689	16.53004513	0	0	0	0	0	0	0
Bore/Drill rigs9999	Bore/Drill rigs	9999	0	0	0	0	14879.14517	0.409698556	308.2625284	48.2677113	0	0	0	0	0	0	0
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	116.9960943	1.590394488	0	0	2.635042286	1.01986378	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers175	Cement and Mortar Mixers	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers9999	Cement and Mortar Mixers	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws25	Concrete/Industrial Saws	25	3842.750496	17.2718755	0	0	1.805258655	0.377549423	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws50	Concrete/Industrial Saws	50	15771.65	9.33	5701.3	2.766325224	4825.3	6.04	3496.7	1.379958246	0	0	0	0	0	0	0
Concrete/Industrial Saws75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws100	Concrete/Industrial Saws	100	15388.4	5.33	3266.75	4.710614525	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws175	Concrete/Industrial Saws	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws600	Concrete/Industrial Saws	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws9999	Concrete/Industrial Saws	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes25	Cranes	25	0	0	0	0	52.62902095	0.25272772	127.1306598	0.413975834	0	0	0	0	0	0	0
Cranes50	Cranes	50	2306.8	2.84	1171.65	1.96884752	852.0852718	2.74423564	1236.54273	0.68908799	0	0	0	0	0	0	0
Cranes75	Cranes	75	0	0	0	0	466.743113	1.26868668	455.8716173	1.02702867	0	0	0	0	0	0	0
Cranes100	Cranes	100	7821.95	5.67	2361.55	3.112210201	20133.50474	32.75952602	15319.54768	1.31423624	0	0	0	0	0	0	0
Cranes175	Cranes	175	507.35	0.16	87.6	5.791666667	58012.26993	56.4287139	26353.13478	2.201342285	0	0	0	0	0	0	0
Cranes300	Cranes	300	0	0	0	0	95501.10111	62.5175265	30484.27488	3.264014036	0	0	0	0	0	0	0
Cranes600	Cranes	600	0	0	0	0	179590.0326	64.16147459	32960.89736	5.448578375	0	0	0	0	0	0	0
Cranes750	Cranes	750	0	0	0	0	3510.923574	0.87192319	372.297918	4.42188353	0	0	0	0	0	0	0
Cranes9999	Cranes	9999	0	0	0	0	9793.558612	1.371212672	701.5429576	13.96000998	0	0	0	0	0	0	0
Crawler Tractors25	Crawler Tractors	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors50	Crawler Tractors	50	0	0	0	0	2763.946713	7.611248221	2679.44387	1.031537456	0	0	0	0	0	0	0
Crawler Tractors75	Crawler Tractors	75	0	0	0	0	1896.756903	3.653299146	1126.076782	1.64499346	0	0	0	0	0	0	0
Crawler Tractors100	Crawler Tractors	100	0	0	0	0	120147.4374	127.1079453	61696.80961	1.947384932	0	0	0	0	0	0	0
Crawler Tractors175	Crawler Tractors	175	0	0	0	0	133094.4422	85.93099241	40188.9673	3.311715906	0	0	0	0	0	0	0
Crawler Tractors300	Crawler Tractors	300	0	0	0	0	139081.6873	65.91340959	30584.17364	4.547505154	0	0	0	0	0	0	0
Crawler Tractors600	Crawler Tractors	600	0	0	0	0	487048.3176	117.0009976	57071.14988	6.534055098	0	0	0	0	0	0	0
Crawler Tractors750	Crawler Tractors	750	0	0	0	0	6115.871174	0.988462369	469.4410213	13.85913538	0	0	0	0	0	0	0
Crawler Tractors9999	Crawler Tractors	9999	0	0	0	0	28343.00908	2.283374466	1304.114409	21.73352957	0	0	0	0	0	0	0
Crushing/Proc. Equipment25	Crushing/Proc. Equipment	25	40.54903156	0.191362846	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment50	Crushing/Proc. Equipment	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment75	Crushing/Proc. Equipment	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment100	Crushing/Proc. Equipment	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment175	Crushing/Proc. Equipment	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment300	Crushing/Proc. Equipment	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment600	Crushing/Proc. Equipment	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment750	Crushing/Proc. Equipment	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment9999	Crushing/Proc. Equipment	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dumpers/Tenders25	Dumpers/Tenders	25	14226.34125	279.5012675	41000.45	0.346980125	1.30297367	0.526654843	0	0	0	0	0	0	0	0	0
Dumpers/Tenders100	Dumpers/Tenders																



Region	Calendar Year	Vehicle Category	Model Year	Horsepower B Fuel	HC_tpd	ROG_tpd	TOC_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption Total	Activity Total	Population	Horsepower_Hours	Hphy
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 100 Gasoline	7,141,488-08	9,307,198-08	1,114,777-07	1,172,321-06	2,851,188-07	3,746,668-05	2,817,779-9	2,592,288-9	3,904,096-10	3,038,806-10	1,213,928,806	6,893,187,65	0.003668683	32,396,1362		
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 175 Gasoline	0.00143884	0.00071507	0.00038884	0.00024388	0.00126431	0.00288904	0.00084331	1.999964-05	1.787532-05	7.02055646	2476.52589	37.1717404	2539951.14			
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 175 Diesel	8,90711-08	1,28176-07	1,42723-06	6,987-07	8,18347-05	6,15609-09	5,6636-09	7,43154-10	6,72005-10	6.625018045	68.8935207	0.006267959	70.77598587			
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 175 Diesel	0.000541395	0.000055088	0.000779609	0.00059467	0.000543497	0.014164621	0.00025104	0.000030957	9.226646-06	8.268566-06	3.286830854	2457.221913	13.7424658	1306644.19		
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 25 Gasoline	2,30536-06	3,31927-06	2,80574-05	4,61728-07	7,55125-05	5,00566-08	4,60251-08	6.19045E-06	6.15666E-06	2.444784346	87.1399825	0.004232726	65.31417958			
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 25 Diesel	0.000240049	0.000020005	0.000259789	0.000252536	0.000202875	0.000202875	1.52045E-06	4.29399E-07	3.87674E-06	1.54142085	794.569026	0.409993511	55081.6934			
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 300 Diesel	0.00020517	0.000240005	0.000259789	0.000252536	0.000202875	0.000202875	1.52045E-06	4.29399E-07	3.87674E-06	1.54142085	794.569026	0.409993511	55081.6934			
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 50 Gasoline	4,50631E-07	5.45242E-07	4.48883E-07	1.4214E-05	2.22888E-06	0.000322071	1.4214E-05	2.22888E-06	2.62587E-06	10.43799146	51.2880725	0.009115958	728.561027			
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 50 Diesel	0.000299448	0.000328287	0.001294217	0.000483663	1.167092294	0.00072374	0.00010584	1.05648E-06	9.51359E-06	3.824.2681	290.097255	4.49073074	135170.282			
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 600 Diesel	0.000106221	0.000212857	0.000129588	0.000132115	0.000794555	0.37803832	3.51994E-05	3.32807E-05	3.44218E-06	3.08218E-06	1225.18545	1040.213586	14.9678828	48866.3052		
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 75 Gasoline	4.72116E-07	5.73219E-07	4.94515E-07	1.73744E-06	2.73618E-06	1.7375E-06	1.6445E-06	2.1512E-06	1.93732E-06	0.77008602	13.78637297	0.003412951	20.5518200			
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 75 Diesel	0.000163848	0.000195344	0.000235093	0.00085259	0.013400343	1.20899532	0.000847836	0.000700879	1.09683E-06	9.8552E-06	39176.2612	2642.714588	35.6462331	140026.029		
Orange (SC)	2026	Agricultural - Agricultural Tractors	Aggregate 750 Diesel	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Orange (SC)	2026	Agricultural - ATVs	Aggregate 100 Gasoline	1,57948E-05	1.91118E-05	2.27446E-05	0.000078781	6.25269E-05	0.04398814	3.41511E-06	3.1419E-07	4.13275E-07	3.70135E-07	1471.30709	52.43176885	1.871556553	4718.13107		
Orange (SC)	2026	Agricultural - ATVs	Aggregate 175 Gasoline	1.69778E-05	2.09431E-05	2.4448E-05	0.000484954	0.06483244	4.92036E-06	3.45195E-06	5.92971E-07	5.3389E-07	4.13275E-07	1693.799E-07	59.26085052	2.146434274	5276.4572		
Orange (SC)	2026	Agricultural - ATVs	Aggregate 25 Gasoline	4.02510E-08	5.13099E-08	6.13101E-08	3.9881E-07	0.000166537	1.60239E-08	1.47030E-08	1.51645E-09	1.35779E-09	5.39728876	70.86486365	0.00247421	257.830020			
Orange (SC)	2026	Agricultural - ATVs	Aggregate 25 Diesel	0.000131642	0.000159766	0.001900284	0.01702703	0.000668311	0.06284235	5.45406E-05	5.01774E-05	5.32979E-07	5.12212E-07	2036.072947	269.5138619	11.27889160	65204.81556		
Orange (SC)	2026	Agricultural - ATVs	Aggregate 25 Diesel	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Orange (SC)	2026	Agricultural - ATVs	Aggregate 50 Diesel	3.74099E-05	4.53595E-05	5.38702E-05	0.000254384	9.6444E-05	0.06799889	5.11252E-06	4.76003E-06	6.18003E-06	5.54388E-07	2033.764778	158.4175507	2.646911517	15707.41309		
Orange (SC)	2026	Agricultural - ATVs	Aggregate 50 Diesel	7.12075E-05	8.12545E-05	9.66975E-05	0.000073977	0.000060626	0.00024952	1.88846E-05	1.73739E-05	9.91616E-07	8.88889E-07	3533.387248	515.0024502	6.64143744	11554.6031		
Orange (SC)	2026	Agricultural - ATVs	Aggregate 75 Gasoline	1.02929E-05	1.23774E-05	1.47301E-05	0.00055146	2.81205E-05	0.00994992	1.57937E-07	1.45302E-07	1.91037E-07	1.71174E-07	680.426231	99.5047819	1.28062487	21790.50973		
Orange (SC)	2026	Agricultural - Bale Wagons (Self Propelled)	Aggregate 175 Diesel	7.88427E-08	9.53997E-08	1.13534E-07	7.96488E-07	7.60758E-07	0.000136241	3.49734E-08	3.21756E-08	1.12931E-08	4.41542736	133.018058	0.000123871	168.4359165			
Orange (SC)	2026	Agricultural - Bale Wagons (Self Propelled)	Aggregate 300 Diesel	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Orange (SC)	2026	Agricultural - Baler (Self Propelled)	Aggregate 175 Diesel	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Orange (SC)	2026	Agricultural - Combine Harvesters	Aggregate 300 Diesel	4.88816E-07	5.98917E-07	6.88916E-07	1.000028632	0.000028745	0.06380807	1.58879E-07	1.06616E-07	5.38746E-07	5.18381E-07	2060.59422	683.0395938	0.000414809	1019.715976		
Orange (SC)	2026	Agricultural - Combine Harvesters	Aggregate 600 Diesel	7.22204E-05	3.29637E-05	3.91974E-05	0.000028632	0.000028745	0.06380807	1.58879E-07	1.06616E-07	5.38746E-07	5.18381E-07	2060.59422	683.0395938	0.000414809	1019.715976		
Orange (SC)	2026	Agricultural - Combine Harvesters	Aggregate 999 Diesel	3.02396E-07	3.66535E-07	4.36238E-07	2.2566E-06	4.41338E-06	0.00063827	1.39004E-07	1.19866E-07	5.80758E-09	5.20351E-09	20.6847592	109.6363118	0.00122563	889.1053903		
Orange (SC)	2026	Agricultural - Construction Equipment	Aggregate 100 Diesel	5.99315E-06	7.25171E-06	8.63013E-06	5.95238E-05	5.65347E-05	0.00985254	3.75046E-06	3.43624E-06	9.08237E-08	8.14106E-08	323.618738	60.0279701	0.00122563	1380.41148		
Orange (SC)	2026	Agricultural - Construction Equipment	Aggregate 175 Diesel	4.94579E-05	5.9844E-05	7.12193E-05	0.00081162	0.00051702	0.01028625	2.35247E-05	2.16427E-05	9.27427E-07	8.3032E-07	3303.402549	183.561227	0.00122563	1575.191871		
Orange (SC)	2026	Agricultural - Construction Equipment	Aggregate 300 Diesel	7.56531E-06	9.15506E-06	1.08958E-05	3.95759E-05	3.7744E-05	0.01400372	3.85754E-06	3.50045E-06	1.274E-07	1.14173E-07	453.845676	19.1312895	0.11916322	2164.14314		
Orange (SC)	2026	Agricultural - Construction Equipment	Aggregate 50 Diesel	2.45219E-07	2.95423E-07	3.51374E-07	2.37344E-06	2.20137E-06	0.000137483	6.21329E-07	5.62045E-07	2.2446E-07	2.05054E-07	8.02384667	0.026861026	0.000000000	3053.27086		
Orange (SC)	2026	Agricultural - Construction Equipment	Aggregate 600 Diesel	4.2372E-06	5.12701E-06	6.10157E-06	3.50655E-05	3.48806E-05	0.007248257	1.97058E-06	1.81294E-06	6.5932E-06	5.90566E-06	234.908592	46.18095085	0.03721831	11201.36329		
Orange (SC)	2026	Agricultural - Construction Equipment	Aggregate 75 Diesel	1.56194E-07	1.88995E-07	2.24927E-07	1.18859E-06	1.43662E-06	0.000193223	7.03068E-08	6.46822E-08	1.75904E-09	1.57781E-09	6.71872707	135.010395	0.000490817	269.014531		
Orange (SC)	2026	Agricultural - Cotton Pickers	Aggregate 600 Diesel	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Orange (SC)	2026	Agricultural - Cotton Pickers	Aggregate 600 Diesel	1.11272E-06	1.34706E-06	1.60311E-06	9.87061E-06	1.04025E-06	0.00232566	6.68081E-07	4.26977E-07	2.28941E-06	2.05911E-06	81.500098	3.103325841	0.006652664	3518.333107		
Orange (SC)	2026	Agricultural - Forage & Silage Harvesters	Aggregate 750 Diesel	9.1003E-06	1.08301E-06	1.28112E-06	7.79362E-06	8.19033E-06	0.01289859	7.7529E-06	3.43646E-06	1.04677E-07	1.16768E-07	41.6973499	9.26319583	0.01372994	7818.77925		
Orange (SC)	2026	Agricultural - Forage & Silage Harvesters	Aggregate 999 Diesel	5.12917E-06	6.2063E-06	7.38601E-06	4.16493E-05	6.97613E-05	0.000802059	2.40449E-06	2.21213E-06	7.64207E-08	6.85026E-08	272.3021432	47.41101086	0.01574165	11704.79933		
Orange (SC)	2026	Agricultural - Forklifts	Aggregate 100 Diesel	1.80639E-05	2.18573E-05	2.60119E-05	0.000152749	0.000140709	0.002494842	1.02128E-05	9.39577E-06	2.26833E-07	2.03407E-07	808.554479	298.235412	0.02698292	34680.62603		
Orange (SC)	2026	Agricultural - Forklifts	Aggregate 175 Diesel	1.88736E-06	2.2837E-06	2.71788E-06	1.90679E-05	1.82101E-05	0.00321445	8.33726E-07	7.02488E-07	2.96675E-08	2.65908E-08	105.7000148	41.38738827	0.02520867	5040.195335		
Orange (SC)	2026	Agricultural - Forklifts	Aggregate 300 Diesel	1.35093E-05	1.63463E-05	1.94513E-05	0.000137483	0.000137483	0.000137483	6.21329E-07	5.62045E-07	2.2446E-07	2.05054E-07	8.02384667	0.026861026	0.000000000	3053.27086		
Orange (SC)	2026	Agricultural - Forklifts	Aggregate 75 Diesel	7.01695E-05	8.40652E-05	0.000100144	0.000539763	0.00049411	0.000551145	3.74733E-07	2.9161E-05	8.00042E-07	7.17912E-07	285.74384	1038.593707	0.20140838	1220.2403		
Orange (SC)	2026	Agricultural - Hay Squeeze/Stack Retriever	Aggregate 175 Diesel	2.57896E-07	3.12054E-07	3.7137E-07	2.77772E-06	2.3807E											



Orange (SC)	2026 Airport Ground Support - Misc - Maint. Truck	Aggregate	175 Gasoline	0.000162485	0.000149454	0.000178805	0.014728996	0.001232039	0.42337155	3.03512E-05	2.2932E-05	4.20575E-06	5.92797E-06	16921.4	2872.55	3.73431.5	
Orange (SC)	2026 Airport Ground Support - Misc - Other	Aggregate	50 Gasoline	0.000132738	0.000122092	0.000146607	0.010193989	0.00027948	0.001920748	0.702633E-06	5.30878E-06	1.23917E-06	0	4485.85	1722.8	9.42	
Orange (SC)	2026 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Gasoline	0	0	1.1747E-05	0.001588971	0	0.000520589	0	0	0	0	4923.85	1814.05	1.77	
Orange (SC)	2026 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Nat Gas	4.25469E-05	4.2262E-05	0.05618E-05	0.00443334	0.000441511	0.000015914	9.80002E-07	7.40491E-07	1.20991E-07	1.90651E-06	0	0	4.3	
Orange (SC)	2026 Airport Ground Support - Misc - Service Truck	Aggregate	300 Gasoline	0.000816047	0.0007506	0.00089801	0.050647158	0.008482895	0.128290728	0.96116E-06	6.84621E-05	1.2556E-05	1.73709E-05	4985.25	15424.9	17.31	
Orange (SC)	2026 Airport Ground Support - Misc - Sweeper	Aggregate	300 Nat Gas	6.34417E-06	5.82537E-06	0	1.03815E-06	0.00051507	0.000513364	0.17149473	0	0	0	9391.45	2328.7	1.89	
Orange (SC)	2026 Airport Ground Support - Misc - Water Truck	Aggregate	175 Gasoline	1.3434E-05	1.23649E-05	1.47932E-05	0.001161622	0.001445134	0.034145134	2.44748E-06	1.84948E-06	3.39196E-07	4.72827E-07	1365.1	492.75	1.65	
Orange (SC)	2026 Airport Ground Support - Other	Aggregate	100 Diesel	2.9301E-05	3.55258E-05	4.22786E-05	0.00075693	0.000423692	0.112658281	1.37466E-05	1.25548E-05	9.92914E-07	3946.893083	972914.47	2333.110509	5.574877799	
Orange (SC)	2026 Airport Ground Support - Other	Aggregate	175 Diesel	8.69465E-05	0.00015205	0.000125203	0.000215238	0.00087906	0.36604587	3.2748E-05	3.01282E-05	3.38129E-06	9.98728E-06	11874.61575	4447.59746	9.122686818	
Orange (SC)	2026 Airport Ground Support - Other	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2026 Airport Ground Support - Other	Aggregate	300 Diesel	8.3654E-05	0.00012121	0.000120462	0.00071131	0.000833765	0.360135864	3.37707E-05	3.1069E-05	3.32713E-06	2.93939E-06	11684.23483	2988.589767	6.186637329	
Orange (SC)	2026 Airport Ground Support - Other	Aggregate	50 Diesel	0.000115282	0.000139491	0.000166006	0.000370035	0.001144109	0.186891645	3.95998E-05	3.64138E-05	1.52538E-06	6.063493602	950.674177	1.8744888	31439.8093	
Orange (SC)	2026 Airport Ground Support - Other	Aggregate	600 Diesel	5.46686E-05	6.1102E-05	7.86776E-05	0.000536334	0.000533529	0.224642564	2.18638E-05	2.01147E-05	2.07529E-06	1.8335E-06	7288.28057	1169.887981	2.41173998	
Orange (SC)	2026 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	3.39133E-05	4.10387E-05	4.88357E-05	0.000563336	0.000542414	0.000339024	2.16757E-05	1.99417E-05	7.72767E-07	2.71333029	2438.929567	5.13809359	156421.057	
Orange (SC)	2026 Airport Ground Support - Passenger Stand	Aggregate	175 Diesel	8.8581E-07	7.09522E-07	8.47897E-07	0.00052606	0.000885231	0.00052606	0.000885231	0.00052606	0.000885231	0.00052606	0.000885231	0.00052606	0.000885231	0.00052606
Orange (SC)	2026 Airport Ground Support - Passenger Stand	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2026 Airport Ground Support - Passenger Stand	Aggregate	300 Diesel	1.9126E-07	2.13424E-07	2.75414E-07	1.30399E-06	4.34956E-06	0.000738283	9.33295E-08	8.58631E-08	6.82006E-09	6.02577E-09	23.95278865	4.340619825	0.113809799	
Orange (SC)	2026 Airport Ground Support - Passenger Stand	Aggregate	50 Diesel	1.14085E-06	1.38042E-06	1.64828E-06	1.10424E-05	1.28238E-05	0.00183348	6.57577E-07	6.49471E-07	1.73599E-08	1.53535E-08	61.03827145	62.42832631	1.08139087	
Orange (SC)	2026 Airport Ground Support - Passenger Stand	Aggregate	600 Diesel	7.18655E-08	7.18655E-08	7.18655E-08	0.45808E-06	4.40822E-07	0.000833109	1.35355E-08	1.2426E-08	7.70071E-09	6.79972E-09	27.02939262	4.34081985	0.113809799	
Orange (SC)	2026 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	2.3521E-07	2.85465E-07	3.39727E-07	1.24024E-05	6.48838E-06	0.002145763	4.10303E-08	3.96523E-08	1.98316E-08	1.75134E-08	69.61691235	60.76875755	1.593371702	
Orange (SC)	2026 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	100 Diesel	0.0000352	0.0000426	0.0000506	0.000166857	0.000062441	0.127294585	0.0000004	0.0000037	0	0	4129.480957	1884.309448	1.583450213	
Orange (SC)	2026 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	50 Diesel	0.0000254	0.0000364	0.0000575	0.000395979	0.001136149	0.161520299	5.22E-05	0.0000498	0	0	5239.774802	5652.928344	4.750326039	
Orange (SC)	2026 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	75 Diesel	0.0000286381	0.00003471	0.000421384	0.001157687	0.000241527	0.000520157	0.000000000	0.000000000	0	0	3846.180774	1884.309448	1.583450213	
Orange (SC)	2026 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	50 Diesel	0.000186799	0.000225718	0.002686553	0.000772797	0.011237189	1.195641086	0.000717964	0.000073988	0	0	38916.72779	42036.67865	26.47161494	
Orange (SC)	2026 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	75 Diesel	0.000145708	0.000173842	0.001396362	0.000893771	0.012051056	1.404156633	0.000735515	0.000880305	0	0	4555.29942	28761.93623	18.00223366	
Orange (SC)	2026 Commercial Harbor Craft - AE - Crew/Supply	Aggregate	50 Diesel	0.000145708	0.000173842	0.000208922	0.000893771	0.02099561	0.43995744	0.000129196	0.000212511	0	0	14277.37305	1578.02637	7.123466004	
Orange (SC)	2026 Commercial Harbor Craft - AE - Excursion	Aggregate	100 Diesel	0.000252817	0.000311235	0.000411235	0.000893771	0.000893771	0.000893771	0.000893771	0.000893771	0	0	2915.000000	1599.417338	1.340811101	
Orange (SC)	2026 Commercial Harbor Craft - AE - Excursion	Aggregate	25 Diesel	3.2737E-07	3.96875E-07	4.71743E-07	0.00119395	0.00210992	0.020276793	1.50767E-05	1.43852E-05	0	0	737.2658217	3135.150368	11761.9738	
Orange (SC)	2026 Commercial Harbor Craft - AE - Excursion	Aggregate	300 Diesel	0.000821948	0.000994618	0.001183671	0.003689119	0.012699638	1.198654341	0.00522979	0.0050003	0	0	3884.76383	8115.26415	5.102729053	
Orange (SC)	2026 Commercial Harbor Craft - AE - Excursion	Aggregate	50 Diesel	0.000327	0.000395546	0.000470897	0.001406186	0.002998588	0.380171685	0.001061921	0.001023077	0	0	12332.90425	15538.9012	20.5754395	
Orange (SC)	2026 Commercial Harbor Craft - AE - Excursion	Aggregate	600 Diesel	0.00007103	0.00031574	0.000421184	0.001824923	0.004804741	0.009455512	0.000259133	0.000147638	0	0	32240.41943	4511.633387	55.12240592	
Orange (SC)	2026 Commercial Harbor Craft - AE - Excursion	Aggregate	75 Diesel	0.00066586	0.00080497	0.000958916	0.002619606	0.008293474	0.008879471	0.000450004	0.000450004	0	0	8049.897461	3548.810303	28.06339427	
Orange (SC)	2026 Commercial Harbor Craft - AE - Ferry-Catamaran	Aggregate	175 Diesel	0.0000668	0.0000808	0.0000962	0.00050545	0.00151389	0.248144597	0.0000064	0.0000035	0	0	8049.897461	3548.810303	28.06339427	
Orange (SC)	2026 Commercial Harbor Craft - AE - Research Boat	Aggregate	50 Diesel	0.0000473	0.0000573	0.0000684	0.0000444	0.0000956	0.012758453	0.00000493	0.0000041	0	0	413.8887024	421.2636051	0.40625	
Orange (SC)	2026 Commercial Harbor Craft - AE - Research Boat	Aggregate	75 Diesel	0.0000336	0.0000406	0.0000484	0.000120985	0.001799262	0.0000213	0.0000024	0.0000024	0	0	583.889229	421.2636051	0.40625	
Orange (SC)	2026 Commercial Harbor Craft - AE - Work Boat	Aggregate	50 Diesel	5.1531E-05	6.1E-05	7.18655E-05	0.000333359	0.000645999	0.002923459	1.45E-05	1.49E-05	0	0	2099.120327	4601.616752	6.135045	
Orange (SC)	2026 Commercial Harbor Craft - AE - Work Boat	Aggregate	800 Diesel	0.000212315	0.000259601	0.000305734	0.001616473	0.004888607	0.079678053	0.0019845	0.001019191	0	0	25847.85184	2200.807641	3.068023	
Orange (SC)	2026 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	300 Diesel	0.000814469	0.000985844	0.001172685	0.003201798	0.011407926	0.014255688	0.000930032	0.000327874	0	0	29891.36947	9472.179819	59.00271242	
Orange (SC)	2026 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	600 Diesel	0.002079493	0.003518256	0.004188941	0.012376313	0.051475137	4.705472143	0.00150772	0.001440833	0	0	152647.3127	28416.54283	229.5017612	
Orange (SC)	2026 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	800 Diesel	0.000105228	0.000127326	0.000151528	0.0004744	0.002949044	0.413541555	0.0000493	0.0000414	0	0	13415.42362	1578.02637	1.583450213	
Orange (SC)	2026 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	300 Diesel	0.000777683	0.000941083	0.001119938	0.003518435	0.009296152	0.000926159	0.000576625	0.000576625	0	0	65774.98138	15994.196665	13.406113	
Orange (SC)	2026 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	600 Diesel	0.004860744	0.008815299	0.009699454	0.02078379	0.094643726	0.659583056	0.00283736	0.002470097	0	0	28019.9021	46383.11258	38.77727955	
Orange (SC)	2026 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	800 Diesel	0.008781035	0.012644943	0.01644644	0.034568488	0.103851631	6.0573441	0.004642497	0.00448211	0	0	106250.3718	20932.40227	147.479488	
Orange (SC)	2026 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	999 Diesel	0.000215038	0.000275207	0.000345233	0.000893771	0.002692337	0.460925337	0.000215038	0.000215038	0	0	13.406113	1578.02637	1.583450213	
Orange (SC)	2026 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	100 Diesel	0.000241301	0.000291975	0.000344724	0.000856518	0.001861818	0.124247803	0.000148986	0.000148986	0	0	403.642428	3455.53226	3.666678037	
Orange (SC)	2026 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	800 Diesel	0.00158922	0.001892828	0.002251963	0.006742119	0.040277559	4.864925641	0.000791549	0.000698111	0	0	15819.8878	15997.09846	10.3071425	
Orange (SC)	2026 Commercial Harbor Craft - ME - Excursion	Aggregate	100 Diesel	0.0001065	0.000134548	0.000142879	0.000429879	0.001098711	0.134737151	7.609E-05	7.275E-05	0	0	4370.920384	3610.06791	7.7399.85485	
Orange (SC)	2026 Commercial Harbor Craft - ME - Excursion	Aggregate	300 Diesel	0.00029231	0.000373753	0.000486991	0.002762021	0.015918181	0.178909255	0.000335718	0.000232842	0	0	54493.6038	15715.51684	22.96091821	
Orange (SC)	2026 Commercial Harbor Craft - ME - Excursion	Aggregate	600 Diesel	0.00058888	0.000717935	0.000891428	0.00268952	0.00862852	0.000891428	0.000891428	0.000891428	0	0	21195.64	12458.567	1.81434E+05	
Orange (SC)	2026 Commercial Harbor Craft - ME - Excursion	Aggregate	800 Diesel	0.002878429	0.003482963	0.004144974	0.010974488	0.03665178	2.91584785	0.001434244	0.00131097	0	0	94594.36748	10624.30242	20.40975853	
Orange (SC)	2026 Commercial Harbor Craft - ME - Excursion	Aggregate	999 Diesel	0.001705													



Orange (SC)	2026 Construction and Mining - Misc - Trenchers	Aggregate	25	Gasoline	0.00232104	0.002344252	0.002554164	0.000149626	0.000538588	1.21804E+06	1.68134E+06	4792.078812	0	0	0	14.71626775	0			
Orange (SC)	2026 Construction and Mining - Misc - Trenchers	Aggregate	25	Gasoline	0.000121278	0.000145871	0.000174339	0.000497878	0.000921789	2.16708E-06	3.09986E-05	2.34212E+05	1.26471E-08	1.08943E-08	0	0	0	43.34452809	0	
Orange (SC)	2026 Construction and Mining - Misc - Trenchers	Aggregate	50	Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0.022417482	0	
Orange (SC)	2026 Construction and Mining - Misc - Trenchers	Aggregate	100	Gasoline	0.001949605	0.001798018	0.002142516	0.151107333	0.000287933	0.976133551	6.72938E-05	5.08442E-05	1.1868E-05	1.61831E-05	46209	20083	0	0	6523155	0
Orange (SC)	2026 Construction and Mining - Off-Highway Tractors	Aggregate	100	Diesel	0.000358528	0.000433819	0.000516281	0.000714564	0.000459759	1.06481332	0.000213399	0.000198284	6.83937E-06	6.89086E-06	34546.69547	19431.1882	0	0	1527262447	1527262447
Orange (SC)	2026 Construction and Mining - Off-Highway Tractors	Aggregate	175	Diesel	0.000395887	0.000479023	0.000570077	0.000127998	0.000462693	0.000167007	0	0	0	0	0	0	0	0	49766.99974	13954.46684
Orange (SC)	2026 Construction and Mining - Off-Highway Tractors	Aggregate	25	Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2026 Construction and Mining - Off-Highway Tractors	Aggregate	300	Diesel	0.000303355	0.000367459	0.000436812	0.000788218	0.000514077	1.293720038	9.00812E-05	8.23747E-05	1.1952E-05	1.05592E-05	41973.32178	8728.789784	0	0	1108318003	1864153.785
Orange (SC)	2026 Construction and Mining - Off-Highway Tractors	Aggregate	50	Diesel	0.000974174	0.001187551	0.001402811	0.011055537	0.008691186	1.408665329	0.000301998	0.000277839	1.29944E-05	1.14973E-05	45702.59522	48552.65204	0	0	1471186795	1827215.737
Orange (SC)	2026 Construction and Mining - Off-Highway Tractors	Aggregate	600	Diesel	0.000878545	0.00106304	0.001265105	0.008713313	0.006084738	4.34318677	0.000210866	0.000193996	1.04288E-05	3.54485E-05	140009.9116	17494.53702	0	0	24.60661836	6276339.7
Orange (SC)	2026 Construction and Mining - Off-Highway Tractors	Aggregate	75	Diesel	0.000351505	0.000425321	0.000500617	0.005185206	0.000379076	0.378189865	0.000191522	0.000176201	6.81186E-06	6.02261E-06	23940.24951	15087.37442	0	0	24.68186795	10662.380
Orange (SC)	2026 Construction and Mining - Off-Highway Tractors	Aggregate	750	Diesel	7.30116E-05	8.8344E-05	0.000132737	0.000593495	0.001202945	0.012120944	3.05944E-05	2.82389E-05	1.67374E-06	1.4795E-06	5881.088115	143.0466141	0	0	0.00196779	202.704458
Orange (SC)	2026 Construction and Mining - Off-Highway Tractors	Aggregate	9999	Diesel	2.46569E-05	9.93091E-05	0.000197534	0.000441026	0.000246026	0.28343481	7.74409E-06	2.7232E-06	2.13216E-06	7421.330239	210.247632	0	0	0.76247882	3296.4788	
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	100	Diesel	0.069649E-05	7.34099E-05	8.73659E-05	0.001046661	0.00033677	1.145395395	3.16195E-05	2.90899E-05	1.34219E-06	1.18649E-06	4716.35448	271.888971	0	0	2.01368694	23906.792
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	175	Diesel	0.001004872	0.001215895	0.001447015	0.002104661	0.00094692	3.206816465	0.000341452	0.000314136	2.96185E-05	2.61736E-05	10441.6285	33332.27684	0	0	2.06389473	527782.24
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	25	Diesel	1.36147E-05	1.64738E-05	1.86025E-05	8.2691E-05	6.27707E-05	0.000542506	6.02238E-06	5.54059E-06	6.00803E-08	5.33991E-08	212.2644073	386.9345788	0	0	0.29823239	9673.36447
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	300	Diesel	0.001893963	0.002291374	0.002716812	0.000779678	0.001911164	4.02046595	0.000505005	0.000463512	6.05654E-05	5.36525E-05	210883.3269	13455.2727	0	0	19.14300238	1002203.786
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	50	Diesel	0.000974174	0.001187551	0.001402811	0.011055537	0.008691186	1.408665329	0.000301998	0.000277839	1.29944E-05	1.14973E-05	45702.59522	48552.65204	0	0	1471186795	1827215.737
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	600	Diesel	0.000878545	0.00106304	0.001265105	0.008713313	0.006084738	4.34318677	0.000210866	0.000193996	1.04288E-05	3.54485E-05	140009.9116	17494.53702	0	0	24.60661836	6276339.7
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	75	Diesel	0.000351505	0.000425321	0.000500617	0.005185206	0.000379076	0.378189865	0.000191522	0.000176201	6.81186E-06	6.02261E-06	23940.24951	15087.37442	0	0	24.68186795	10662.380
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	750	Diesel	7.30116E-05	8.8344E-05	0.000132737	0.000593495	0.001202945	0.012120944	3.05944E-05	2.82389E-05	1.67374E-06	1.4795E-06	5881.088115	143.0466141	0	0	0.00196779	202.704458
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	9999	Diesel	2.46569E-05	9.93091E-05	0.000197534	0.000441026	0.000246026	0.28343481	7.74409E-06	2.7232E-06	2.13216E-06	7421.330239	210.247632	0	0	0.76247882	3296.4788	
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	100	Diesel	0.069649E-05	7.34099E-05	8.73659E-05	0.001046661	0.00033677	1.145395395	3.16195E-05	2.90899E-05	1.34219E-06	1.18649E-06	4716.35448	271.888971	0	0	2.01368694	23906.792
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	175	Diesel	0.001004872	0.001215895	0.001447015	0.002104661	0.00094692	3.206816465	0.000341452	0.000314136	2.96185E-05	2.61736E-05	10441.6285	33332.27684	0	0	2.06389473	527782.24
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	25	Diesel	1.36147E-05	1.64738E-05	1.86025E-05	8.2691E-05	6.27707E-05	0.000542506	6.02238E-06	5.54059E-06	6.00803E-08	5.33991E-08	212.2644073	386.9345788	0	0	0.29823239	9673.36447
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	300	Diesel	0.001893963	0.002291374	0.002716812	0.000779678	0.001911164	4.02046595	0.000505005	0.000463512	6.05654E-05	5.36525E-05	210883.3269	13455.2727	0	0	19.14300238	1002203.786
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	50	Diesel	0.000974174	0.001187551	0.001402811	0.011055537	0.008691186	1.408665329	0.000301998	0.000277839	1.29944E-05	1.14973E-05	45702.59522	48552.65204	0	0	1471186795	1827215.737
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	600	Diesel	0.000878545	0.00106304	0.001265105	0.008713313	0.006084738	4.34318677	0.000210866	0.000193996	1.04288E-05	3.54485E-05	140009.9116	17494.53702	0	0	24.60661836	6276339.7
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	75	Diesel	0.000351505	0.000425321	0.000500617	0.005185206	0.000379076	0.378189865	0.000191522	0.000176201	6.81186E-06	6.02261E-06	23940.24951	15087.37442	0	0	24.68186795	10662.380
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	750	Diesel	7.30116E-05	8.8344E-05	0.000132737	0.000593495	0.001202945	0.012120944	3.05944E-05	2.82389E-05	1.67374E-06	1.4795E-06	5881.088115	143.0466141	0	0	0.00196779	202.704458
Orange (SC)	2026 Construction and Mining - Off-Highway Trucks	Aggregate	9999	Diesel	2.46569E-05	9.93091E-05	0.000197534	0.000441026	0.000246026	0.28343481	7.74409E-06	2.7232E-06	2.13216E-06	7421.330239	210.247632	0	0	0.76247882	3296.4788	
Orange (SC)	2026 Construction and Mining - Pavers	Aggregate	100	Diesel	0.000284136	0.000343804	0.000409156	0.004973796	0.003672411	0.76219262	0.000187604	0.000172098	7.03857E-06	6.22113E-06	24729.34541	14261.63025	0	0	35.57341339	1155222.053
Orange (SC)	2026 Construction and Mining - Pavers	Aggregate	175	Diesel	0.00033369	0.000403764	0.000480513	0.00702888	0.000492412	1.233283946	0.000169392	0.000155884	1.13923E-06	1.00695E-06	40012.3194	11782.25246	0	0	29.62130936	1860165.032
Orange (SC)	2026 Construction and Mining - Pavers	Aggregate	25	Diesel	0.000423606	0.000519323	0.00061394	0.007727096	0.000483408	1.302738618	0.000249976	0.000228612	1.20309E-05	1.06328E-05	42665.91974	12960.88971	0	0	34.02336843	1096949.005
Orange (SC)	2026 Construction and Mining - Pavers	Aggregate	300	Diesel	0.000324636	0.000391262	0.000461617	0.000782658	0.000542414	0.993515946	0.000195546	0.000182532	5.64352E-06	7.87533E-06	31234.2186	6556.00839	0	0	14.40382607	1452644.037
Orange (SC)	2026 Construction and Mining - Pavers	Aggregate	50	Diesel	0.000115396	0.000139626	0.00016617	0.000738987	0.000462141	0.093551946	0.000195546	0.000182532	5.64352E-06	7.87533E-06	3028.70707	2629.05767	0	0	0.93104807	12654.967
Orange (SC)	2026 Construction and Mining - Pavers	Aggregate	600	Diesel	2.87618E-06	3.48018E-05	4.1417E-05	0.000329375	0.000299433	0.177219837	1.02598E-05	9.47212E-06	1.63762E-06	1.44644E-06	5749.702447	24.5844663	0	0	1.67358009	26718.2626
Orange (SC)	2026 Construction and Mining - Pavers	Aggregate	75	Diesel	0.000116465	0.000140922	0.000167709	0.000595874	0.000179766	0.136675758	9.57372E-05	8.80738E-05	1.26014E-06	1.11535E-06	4434.29444	2889.77469	0	0	1.51636645	20741.2757
Orange (SC)	2026 Construction and Mining - Paving Equipment	Aggregate	750	Diesel	3.77781E-06	4.57224E-06	5.44134E-06	6.57586E-05	1.86904E-05	0.031804465	6.32579E-07	5.81937E-07	3.33772E-07	2.94712E-07	1711.498744	72.61844048	0	0	0.14885000	54463.83036
Orange (SC)	2026 Construction and Mining - Paving Equipment	Aggregate	100	Diesel	0.000242584	0.000291701	0.000349276	0.000209295	0.000191164	0.800636335	2.5143E-05	6.72425E-05	4.33962E-06	3.92289E-06	15593.31721	9532.041247	0	0	6.99023786	69032.3786
Orange (SC)	2026 Construction and Mining - Paving Equipment	Aggregate	175	Diesel	0.000415066	0.000518037	0.000614555	0.000380347	0.000153018	0.028150056	7.49145E-05	6.89231E-05	4.87854E-06	4.31069E-06	1715.24561	644.731235	0	0	13.67250114	93374.7549
Orange (SC)	2026 Construction and Mining - Paving Equipment	Aggregate	25	Diesel	1.15463E-06	1.39711E-06	1.66266E-06	4.02031E-06	2.95739E-06	0.000275611	4.19355E-07	3.7806E-07	2.51352E-07	2.2495E-07	8.941899003	17.51277995	0	0	0	











OFFROAD 2027

Equipment Type	Horsepower HP	Gas				Diesel				Natural Gas								
		Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr	Fuel (Gal/Yr)	Population	Hrs/Yr	Gal/Hr					
Air Compressors25	Air Compressors	25	9545.147614	32.59679789	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors50	Air Compressors	50	53103.85	48.85	23611.85	2.249033854	92991.05	112.06	91217.15	1.018447001	0	0	0	0	0	0	0	0
Air Compressors75	Air Compressors	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors100	Air Compressors	100	287386.4	158.36	76569.7	3.753265326	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors175	Air Compressors	175	35244.4	16.66	5151.8	6.838526912	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors300	Air Compressors	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors600	Air Compressors	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors750	Air Compressors	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressors9999	Air Compressors	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts25	Aerial Lifts	25	2706.592526	15.03964045	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts50	Aerial Lifts	50	74193.55	129.44	46767.45	1.586435651	126648.6119	494.1174417	154904.7214	0.817590392	0	0	0	0	0	0	0	0
Aerial Lifts75	Aerial Lifts	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts100	Aerial Lifts	100	133265.15	129.44	46767.45	2.849527823	87961.97169	226.4219141	71037.51378	1.238246766	0	0	0	0	0	0	0	0
Aerial Lifts175	Aerial Lifts	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts300	Aerial Lifts	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Lifts600	Aerial Lifts	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs25	Bore/Drill rigs	25	219.0067882	2.308347746	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs50	Bore/Drill rigs	50	693.5	2.51	281.05	2.467523468	2620.274137	6.131485499	2260.708759	1.159048845	0	0	0	0	0	0	0	0
Bore/Drill rigs75	Bore/Drill rigs	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs100	Bore/Drill rigs	100	7858.45	11.49	1237.35	6.351032448	12470.29184	15.16735864	5808.875881	2.146765071	0	0	0	0	0	0	0	0
Bore/Drill rigs175	Bore/Drill rigs	175	2744.8	2.86	295.65	9.283950617	19066.82703	14.97332729	4882.519917	3.905120175	0	0	0	0	0	0	0	0
Bore/Drill rigs300	Bore/Drill rigs	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs600	Bore/Drill rigs	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs750	Bore/Drill rigs	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill rigs9999	Bore/Drill rigs	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	118.4680889	1.61196399	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers175	Cement and Mortar Mixers	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement and Mortar Mixers9999	Cement and Mortar Mixers	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws25	Concrete/Industrial Saws	25	3894.362052	17.50595517	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws50	Concrete/Industrial Saws	50	15771.65	9.33	5701.3	2.766325224	4901.95	6.13	3555.1	1.378850103	0	0	0	0	0	0	0	0
Concrete/Industrial Saws75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws100	Concrete/Industrial Saws	100	15388.4	5.33	3266.75	4.710614525	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws175	Concrete/Industrial Saws	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws600	Concrete/Industrial Saws	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws9999	Concrete/Industrial Saws	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes25	Cranes	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes50	Cranes	50	2310.45	2.86	1178.95	1.959752322	808.774706	2.93899515	1173.881965	0.688971485	0	0	0	0	0	0	0	0
Cranes75	Cranes	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes100	Cranes	100	7832.9	5.7	2365.2	3.311728395	19407.35925	31.61315034	14745.1776	1.316183485	0	0	0	0	0	0	0	0
Cranes175	Cranes	175	507.35	0.16	87.6	5.791666667	54814.21787	52.76964325	24849.98195	2.205805138	0	0	0	0	0	0	0	0
Cranes300	Cranes	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes600	Cranes	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes750	Cranes	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cranes9999	Cranes	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors25	Crawler Tractors	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors50	Crawler Tractors	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors75	Crawler Tractors	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors100	Crawler Tractors	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors175	Crawler Tractors	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors300	Crawler Tractors	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors600	Crawler Tractors	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors750	Crawler Tractors	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crawler Tractors9999	Crawler Tractors	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment25	Crushing/Proc. Equipment	25	40.55268228	0.191414384	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment50	Crushing/Proc. Equipment	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment75	Crushing/Proc. Equipment	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment100	Crushing/Proc. Equipment	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment175	Crushing/Proc. Equipment	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment300	Crushing/Proc. Equipment	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment600	Crushing/Proc. Equipment	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment750	Crushing/Proc. Equipment	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment9999	Crushing/Proc. Equipment	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dumpers/Tenders25	Dumpers/Tenders	25	14339.51263	281.2587523	41255.95	0.347574414	1.321468603	0.534129704	0	0	0	0	0	0	0	0	0	0
Dumpers/Tenders100	Dumpers/Tenders	100	649.7	2.07	270.1	2.405405405	0	0	0	0	0	0	0	0	0	0	0	0
Excavators25	Excavators	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Excavators50	Excavators	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Excavators75	Excavators	75	0	0	0													



Region	Calendar Year	Vehicle Category	Model Year	Horsepower B Fuel	HC_tpd	CO2_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption Total_Activity	Total_Population	Horsepower/Total_Activity	Hwy	
Orange (SC)	2027	Agricultural - Agricultural Tractors	100 Gasoline	7,55396-08	9.14022E-08	1.08776E-07	1.17287E-06	2.17089E-07	3.75125E-09	2.82211E-09	2.59644E-09	3.39639E-10	3.05864E-10	1.218292316	7.193529569	0.003672603	32.4472311	
Orange (SC)	2027	Agricultural - Agricultural Tractors	100 Diesel	0.012353102	0.00163722	0.00549023	0.00255208	0.00017272	2.19925920	0.00084664	0.00070979	0.00000000	0.00000000	1.82027E-05	1.77077E-05	1.96007E-05	36.3960039	252473.479
Orange (SC)	2027	Agricultural - Agricultural Tractors	175 Diesel	8.23407E-08	9.83222E-08	1.18571E-07	1.34044E-06	6.11005E-07	8.07711E-05	0.0706709	5.58999E-09	7.33661E-10	6.58533E-10	2.617709532	8.859745848	0.006186043	69.8596678	
Orange (SC)	2027	Agricultural - Agricultural Tractors	175 Diesel	0.00051269	0.00020355	0.00073874	0.00058856	0.00054633	0.00937827	0.00023664	0.000214971	9.15235E-06	8.20149E-06	32.60141665	2476.03984	1.33156633	129.64598	
Orange (SC)	2027	Agricultural - Agricultural Tractors	25 Gasoline	1.98327E-06	2.39975E-06	2.8599E-06	2.64278E-05	7.50981E-05	6.4687E-05	4.31084E-08	6.42931E-08	1.12281E-10	2.43834010	90.9367469	0.40048683	64.9530604		
Orange (SC)	2027	Agricultural - Agricultural Tractors	25 Diesel	0.000136054	0.000164625	0.000195918	0.00017672	0.00037245	0.04750383	2.6996E-05	2.08836E-05	4.2746E-07	3.86061E-07	1534.7579	796.3411975	4.77058081	54851.11649	
Orange (SC)	2027	Agricultural - Agricultural Tractors	750 Diesel	0.000195918	0.000249229	0.000297909	0.00027225	0.00054633	6.23424E-05	5.72415E-05	6.72711E-07	5.70571E-06	2.680153084	1496.009579	2.229546437	90247.4664		
Orange (SC)	2027	Agricultural - Agricultural Tractors	50 Gasoline	4.05871E-07	4.91104E-07	5.84455E-07	1.332E-05	1.19938E-06	0.000318033	2.39243E-08	2.10104E-08	2.88631E-09	2.59295E-09	10.3071381	53.0258154	0.038642726	275.0700212	
Orange (SC)	2027	Agricultural - Agricultural Tractors	50 Diesel	0.002875691	0.004197986	0.00410995	0.01202653	0.009164802	1.15627983	0.000736938	0.000679883	1.04518E-05	9.42724E-06	37473.84862	2965.649885	49.25760806	133945.186	
Orange (SC)	2027	Agricultural - Agricultural Tractors	600 Diesel	0.000100806	0.000121975	0.00014516	0.000176855	0.000098482	0.37489867	3.12958E-05	2.89212E-05	3.4119E-06	3.04595E-06	12143.60165	1042.500026	1.03746595	48245.4615	
Orange (SC)	2027	Agricultural - Agricultural Tractors	75 Gasoline	4.60091E-08	5.5671E-08	6.6252E-08	7.7777E-07	2.35209E-07	1.76938E-06	1.62783E-09	2.12984E-10	1.91578E-10	0.76287689	14.3870526	0.003378859	20.3434241		
Orange (SC)	2027	Agricultural - Agricultural Tractors	750 Diesel	0.00156317	0.00189116	0.00221117	0.00085187	0.013009531	1.2022413	0.000613022	0.000476038	1.99105E-05	9.80232E-06	38964.79982	2647.05711	35.45380493	139276.944	
Orange (SC)	2027	Agricultural - ATVs	100 Gasoline	1.38693E-05	1.67181E-05	1.99718E-05	0.00068788	5.62051E-05	0.045312	0.00083636	3.13594E-07	4.12588E-07	1468.515858	52.4586668	1.67429357	47028.90829		
Orange (SC)	2027	Agricultural - ATVs	175 Diesel	1.53882E-05	1.86197E-05	2.2159E-05	0.00084235	1.11231E-05	0.06581894	4.93446E-06	4.53876E-06	5.92739E-07	5.34695E-07	2125.445057	29.52188652	0.60441233	68066.94048	
Orange (SC)	2027	Agricultural - ATVs	25 Gasoline	0.00125668	0.001520931	0.00181034	0.0161652	0.00073049	0.06419457	5.44846E-05	5.01258E-05	5.31691E-07	2022.595071	269.995712	11.20489151	11.64848184		
Orange (SC)	2027	Agricultural - ATVs	25 Diesel	2.45082E-05	2.96549E-05	3.52918E-05	0.00024301	0.000236188	0.03684004	9.31308E-06	8.58033E-06	3.3018E-07	3.0036E-07	1193.949778	294.8646905	3.52696271	51121.08234	
Orange (SC)	2027	Agricultural - ATVs	25 Electric	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2027	Agricultural - ATVs	50 Gasoline	3.30828E-05	4.00011E-05	4.76392E-05	0.00192788	8.60312E-05	0.06770452	5.07314E-06	4.68508E-06	6.36031E-07	5.52001E-07	2104.237907	198.518963	7.49982757	70270.0519	
Orange (SC)	2027	Agricultural - ATVs	75 Gasoline	7.59399E-05	7.59399E-05	8.98595E-05	0.00004608	0.00001162	0.108576719	1.69188E-05	1.55653E-05	9.87673E-07	8.85334E-07	35.271318	70.9018264	0.00245221	254.038506	
Orange (SC)	2027	Agricultural - ATVs	75 Gasoline	9.10819E-06	1.10209E-05	1.31158E-05	0.00056998	2.50423E-05	0.00283175	1.67909E-06	1.44172E-06	1.89583E-06	6.75137191	99.5562162	1.27059334	21621.12921		
Orange (SC)	2027	Agricultural - Bale Wagons (Self Propelled)	175 Diesel	7.50571E-08	9.09181E-08	1.08082E-07	7.82666E-07	7.09263E-07	0.00013447	3.26399E-08	3.00287E-08	1.23228E-09	1.09635E-09	4.358038665	135.1659933	0.00122611	166.2467019	
Orange (SC)	2027	Agricultural - Bale Wagons (Self Propelled)	300 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2027	Agricultural - Baler (Self Propelled)	100 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2027	Agricultural - Combine Harvesters	175 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2027	Agricultural - Combine Harvesters	300 Diesel	3.257E-07	3.94097E-07	4.69008E-07	1.84511E-06	3.32594E-06	0.00073312	1.45026E-07	1.33424E-07	6.67184E-09	5.97728E-09	23.7600446	40.97475678	0.004922497	1021.316068	
Orange (SC)	2027	Agricultural - Combine Harvesters	750 Diesel	5.28919E-05	6.31329E-05	7.72843E-05	0.000199323	0.000269725	0.00306932	1.07637E-05	9.90264E-06	5.74202E-07	5.14209E-07	2044.012187	683.721212	0.62381005	87861.05145	
Orange (SC)	2027	Agricultural - Combine Harvesters	750 Diesel	2.87311E-07	3.47447E-07	4.13778E-07	2.0932E-06	4.2389E-06	0.00062993	2.1018E-07	1.11327E-07	5.73244E-06	20.4154159	109.7458707	0.00126067	877.549425		
Orange (SC)	2027	Agricultural - Construction Equipment	100 Diesel	5.46008E-06	6.6067E-06	7.86232E-06	5.84891E-05	5.16349E-05	0.000867108	3.44852E-06	3.17264E-06	8.9763E-06	8.04473E-08	319.7828189	88.74209775	0.26350116	13716.17783	
Orange (SC)	2027	Agricultural - Construction Equipment	175 Diesel	4.5231E-05	5.47294E-05	6.51326E-05	0.000570517	0.0004942	0.00034538	2.11632E-05	1.94701E-05	9.1317E-07	8.18124E-07	3252.093077	186.520316	1.22384628	155075.5519	
Orange (SC)	2027	Agricultural - Construction Equipment	300 Diesel	7.25061E-06	8.77977E-06	1.04487E-05	3.84474E-05	7.24195E-05	0.013994741	3.372E-06	3.10224E-06	1.73272E-07	1.141E-07	453.555233	139.298801	0.118993375	21627.29234	
Orange (SC)	2027	Agricultural - Construction Equipment	50 Diesel	1.93487E-06	2.3421E-06	2.76021E-06	5.61267E-06	1.15266E-05	0.00030117	4.42798E-07	4.07374E-07	1.02965E-09	9.26314E-09	36.82152626	40.97475678	0.00019711	1579.354695	
Orange (SC)	2027	Agricultural - Construction Equipment	600 Diesel	4.11157E-06	4.9752E-06	5.92066E-06	4.30975E-05	8.39676E-05	0.00272604	1.8731E-06	1.72882E-06	6.69329E-07	5.91828E-08	235.2763808	47.8458646	0.03728908	3128.89896	
Orange (SC)	2027	Agricultural - Construction Equipment	75 Diesel	1.49002E-07	1.80292E-07	2.14563E-07	1.17464E-06	1.38E-06	0.000191007	6.56828E-08	6.04282E-08	1.73633E-09	1.5573E-09	6.19035533	135.1659842	0.00492595	265.5177029	
Orange (SC)	2027	Agricultural - Cotton Pickers	600 Diesel	1.96225E-06	2.3823E-06	2.82963E-06	9.40393E-06	9.63626E-06	0.002500819	4.3167E-07	3.96977E-07	2.27601E-08	2.03894E-08	81.04900311	3.130013366	0.00658742	3483.889203	
Orange (SC)	2027	Agricultural - Forage & Silage Harvesters	100 Diesel	7.22148E-06	8.70493E-06	1.04038E-05	3.85139E-05	7.18194E-05	0.00017983	1.5337E-06	1.32389E-06	4.12791E-08	3.79132E-08	412.2791136	291.72316	0.00130984	1734.86624	
Orange (SC)	2027	Agricultural - Forage & Silage Harvesters	9999 Diesel	6.85429E-06	8.3787E-06	1.00602E-06	3.94847E-05	7.50078E-05	0.000821153	2.25452E-06	2.07416E-06	7.49626E-06	6.71911E-08	267.088533	46.4132901	0.01544689	11680.69973	
Orange (SC)	2027	Agricultural - Forklifts	100 Diesel	1.70388E-05	2.06169E-05	2.45388E-05	0.00014962	0.000129286	0.0246147	9.47721E-06	8.71903E-06	2.28272E-07	2.00866E-07	797.7372602	395.721756	0.520077616	34216.67252	
Orange (SC)	2027	Agricultural - Forklifts	175 Diesel	1.80362E-06	2.18237E-06	2.59721E-06	1.88088E-05	1.70424E-05	0.00023193	7.84534E-07	7.12160E-07	2.93961E-08	2.63458E-08	104.7261561	41.43219414	0.052101883	4993.735788	
Orange (SC)	2027	Agricultural - Forklifts	50 Diesel	2.59127E-05	3.15444E-05	3.73143E-05	0.000135022	0.000101334	0.016171319	6.24001E-07	5.74081E-06	1.46605E-07	1.31846E-07	324.9959236	536.0202297	0.726489493	24749.65001	
Orange (SC)	2027	Agricultural - Forklifts	75 Diesel	4.69874E-07	5.64041E-07	6.68048E-07	4.00001E-06	4.93278E-06	0.00017983	2.79429E-07	2.57402E-07	7.91864E-06	1.01984E-06	2.17785146	109.9141656	1.17785146	12186.405	
Orange (SC)	2027	Agricultural - Hay Squeeze/Stack Retriever	175 Diesel	2.44227E-07	2.95635E-07	3.52688E-07	2.74076E-06	2.1164E-06	0.00045872	1.02957E-07	1.0051E-07	4.10181E-09	3.67599E-09	14.6123086	3.10013349	0.00658742	663.922487	
Orange (SC)	2027	Agricultural - Hay Squeeze/Stack Retriever	300 Diesel	6.36345E-06	7.69977E-06	9.13636E-06	3.60493E-05	6.49815E-05	0.014232744	2.88364E-06	2.60881E-06	1.30353E-07	1.16783E-07	464.2178963	150.720614	0.01212604	21081.64738	
Orange (SC)	2027	Agricultural - Hay Squeeze/Stack Retriever	750 Diesel	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	
Orange (SC)	2027	Agricultural - Hay Squeeze/Stack Retriever	75 Diesel	2.15728E-06	2.61031E-06	3.10639E-06	1.69028E-07	1.998E-07	2.76545E-06	5.80396E-07	5.38492E-07	2.1539E-06						



Orange (SC)	2027 Airport Ground Support - Misc - Other	Aggregate	50 Gal Gasoline	0.000131359	0.000120824	0.001045553	0.010228145	0.000279999	0.000477999	7.10241E-06	5.36627E-06	1.58301E-06	4518.7	1744.7	9.49	87235					
Orange (SC)	2027 Airport Ground Support - Misc - Other	Aggregate	50 Nit Gas	0	0	1.11018E-05	0.001573598	0.000456671	0.009157129	0	0	0	4982.25	1828.65	1.78	19423.5					
Orange (SC)	2027 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Gasoline	4.49716E-05	4.1369E-05	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	5500.55	828.55	0.13	103651.00					
Orange (SC)	2027 Airport Ground Support - Misc - Passenger Stand	Aggregate	300 Gasoline	0.000805191	0.000740615	0.000886604	0.001517403	0.000488357	1.24191567	9.95027E-05	6.92035E-05	1.2629E-05	50118.15	15966.45	0.87	280361					
Orange (SC)	2027 Airport Ground Support - Misc - Service Truck	Aggregate	300 Nit Gas	0	0	1.04571E-05	0.000129287	0.000519886	0.000000000	0.000000000	0.000000000	0.000000000	1.940	2357.9	1.8	42422					
Orange (SC)	2027 Airport Ground Support - Misc - Sweeper	Aggregate	100 Gasoline	6.12397E-06	5.62831E-06	6.73906E-06	0.000384509	0.0004545E-05	0.009729844	6.78888E-07	5.1256E-07	8.03306E-08	1.36819E-07	390.55	16.6	4.44	8559.98				
Orange (SC)	2027 Airport Ground Support - Misc - Sweeper	Aggregate	50 Diesel	0	0	3.82819E-06	4.88068E-06	0.00241517E-05	6.00202933	0	0	0	737.626	345.5	403.5	6.0662	193.25	0.15	47.45		
Orange (SC)	2027 Airport Ground Support - Misc - Water Truck	Aggregate	175 Gasoline	1.31921E-05	1.21341E-05	1.45171E-05	0.001174209	0.000112627	0.03451489	2.44734E-06	1.86951E-06	3.42869E-07	4.79505E-07	1.3687.75	507.35	1.62	76102.5				
Orange (SC)	2027 Airport Ground Support - Other	Aggregate	100 Diesel	3.07953E-05	3.72623E-05	4.45433E-05	0.000779554	0.000434691	0.120836616	1.40688E-05	1.29433E-05	1.11627E-05	9.62522E-07	3920.41093	2715.253936	5.497317166	225890.6511	0	0		
Orange (SC)	2027 Airport Ground Support - Other	Aggregate	175 Diesel	8.77459E-05	0.00016172	0.000126354	0.002189263	0.0008337	0.370680436	3.35768E-05	3.38097E-05	0.02544E-06	12026.31853	4504.47126	9.197344889	69327.33348	0	0			
Orange (SC)	2027 Airport Ground Support - Other	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Orange (SC)	2027 Airport Ground Support - Other	Aggregate	300 Diesel	8.7154E-05	0.000105456	0.000078624	0.000078624	0.000087711	0.36473744	0	0	0	3.36956E-06	2.97694E-06	11833.5054	3026.77170	6.23743062	16127.6328	0	0	
Orange (SC)	2027 Airport Ground Support - Other	Aggregate	50 Diesel	0.000109632	0.000126555	0.00051787	0.00131434	0.001134839	0.189279258	3.54425E-05	3.26071E-05	1.74669E-06	6140.957062	9267.57554	19.0211478	31810.311	0.293156669	425483.1389	0	0	
Orange (SC)	2027 Airport Ground Support - Other	Aggregate	600 Diesel	5.74224E-05	6.94811E-05	8.26833E-05	0.0005468	0.000542639	0.227512459	2.25405E-05	2.06126E-05	1.210174E-06	7381.391161	1184.833749	1.214746603	13810.311	0.293156669	425483.1389	0	0	
Orange (SC)	2027 Airport Ground Support - Other	Aggregate	75 Diesel	3.51595E-05	4.2544E-05	5.06297E-05	0.000588903	0.000461051	0.00077951	2.16174E-05	1.9888E-05	8.04024E-07	7.10719E-07	2825.148213	2522.864832	5.28588189	16283.3373	0	0		
Orange (SC)	2027 Airport Ground Support - Passenger Stand	Aggregate	175 Diesel	5.95243E-07	7.02244E-07	8.57355E-07	5.60157E-06	5.61022E-06	0.0008965	5.61032E-07	5.6147E-07	0	0	0	0	0	0	0	0	0	
Orange (SC)	2027 Airport Ground Support - Passenger Stand	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2027 Airport Ground Support - Passenger Stand	Aggregate	300 Diesel	1.94966E-07	2.3485E-07	2.79498E-07	1.31787E-06	4.40754E-06	0.00074715	9.47699E-08	8.71055E-08	6.90177E-09	6.10275E-09	24.2587473	4.936072911	0.11474254	1917.929868	0	0	0	
Orange (SC)	2027 Airport Ground Support - Passenger Stand	Aggregate	50 Diesel	1.15991E-06	1.39986E-06	1.66595E-06	1.0526E-05	1.29873E-05	0.000105383	6.7468E-07	1.61071E-07	1.75815E-08	1.55515E-08	6.81805879	63.2252176	1.009004219	2733.452277	0	0	0	
Orange (SC)	2027 Airport Ground Support - Passenger Stand	Aggregate	600 Diesel	5.82076E-08	7.04312E-08	8.3819E-08	1.47158E-06	4.0298E-07	0.000893752	1.36403E-08	1.25491E-08	7.79919E-09	6.88693E-09	27.7460323	4.936072911	0.11474254	1917.929868	0	0	0	
Orange (SC)	2027 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	2.38244E-07	2.83257E-07	3.400129E-07	1.26474E-06	3.55031E-06	0.002173176	4.36057E-06	4.01172E-06	2.00849E-06	70.50262914	1.54502075	1.60029556	3481.689745	0	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	100 Diesel	0.0000355	0.0000429	0.0000511	0.00016717	0.000910379	0.002129455	0.0000409	0.0000391	0	0	413.8887024	421.2630615	0.40625	7196.015625	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	50 Diesel	5.31E-05	0.0000643	0.0000765	0.00002003	0.001138503	0.016152099	0.0000226	5.03E-05	0	0	5239.774902	5652.928344	4.763202039	8784.71629	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	75 Diesel	0.0000273	0.0000333	3.93E-05	0.000139667	0.000568007	0.007797776	0.0000237	0.0000227	0	0	2848.130674	1884.309448	1.583450313	49513.65234	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	25 Diesel	0.0000229	0.0000281	0.0000341	0.000102845	0.000410323	0.004640202	0.0000124	0.0000124	0	0	5320.741231	1884.309448	6.703859872	92408.29155	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	50 Diesel	0.00018462	0.000234441	0.000258864	0.000722887	0.011207709	1.199967243	0.000767815	0.000741511	0	0	3892.35796	2028.67088	25.47151511	66971.65484	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	75 Diesel	0.000059897	0.000116584	0.000138166	0.000384689	0.012003152	1.140385959	0.000712178	0.000608834	0	0	4544.9307	2861.93628	17.42794603	80529.23187	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Crew/Supply	Aggregate	50 Diesel	0.000148286	0.000179426	0.000213352	0.000800901	0.000300573	0.000311219	0.000215399	0	0	1427.23705	1518.02637	7.12334604	23381.17444	0	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Excursion	Aggregate	175 Diesel	0.000221005	0.000388383	0.000462255	0.002212614	0.00811244	1.04411255	0.000381211	0.000304153	0	0	3582.48786	1473.56994	20.409706	69248.7369	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Excursion	Aggregate	175 Diesel	3.25201E-05	3.91281E-05	4.68086E-05	0.000245176	0.000142983	0.00042373	1.40575E-05	0	0	4300.62	3455.14013	3.62662	1176.1923	0	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Excursion	Aggregate	300 Diesel	0.00028045	0.000399345	0.001182229	0.003686206	0.012692935	1.586525268	0.000522581	0.000495247	0	0	38884.09665	8115.264129	15.5127896	751504.1065	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Excursion	Aggregate	50 Diesel	0.000326828	0.0003953	0.00140934	0.00300058	0.00300058	0.380198762	0.000169942	0.000162454	0	0	12333.78261	15538.90144	25.10321203	20575.4553	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Excursion	Aggregate	600 Diesel	0.000311064	0.000376366	0.000447888	0.00184148	0.00846316	0.99443512	0.000262849	0.000251234	0	0	32260.41943	4151.63367	51.02466252	624624.6271	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Excursion	Aggregate	75 Diesel	0.0006623	0.00086124	0.000953987	0.002619022	0.006293909	0.688311533	0.000454665	0.000436674	0	0	2329.60689	18054.53395	10.26334521	40381.7783	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Ferry-Catamaran	Aggregate	175 Diesel	0.0000668	0.0000962	0.0000962	0.0000962	0.00153879	0.24814597	0.0000664	0.0000664	0	0	3049.89149	3548.81003	0	0	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Research Boat	Aggregate	50 Diesel	0.0000048	5.8E-06	0.0000061	0.0000049	0.0000958	0.012758453	0.0000049	0.0000047	0	0	413.8887024	421.2630615	0.40625	7196.015625	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Research Boat	Aggregate	75 Diesel	0.0000339	0.000041	0.000125366	0.000170026	0.001792692	0.01792692	0.0000216	0.0000206	0	0	583.889209	421.2630615	0.40625	10148.22754	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Work Boat	Aggregate	50 Diesel	3.33434E-05	4.01456E-05	4.79946E-05	0.00032439	0.00064736	0.002998952	3.66279E-05	3.50144E-05	0	0	2692.516095	4401.614445	6.136045047	46771.55549	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - AE - Work Boat	Aggregate	75 Diesel	0.00021948	0.00026287	0.000326279	0.00162719	0.004919314	0.796789953	0.000202329	0.00019427	0	0	2567.85184	2202.807641	3.608023	49965.3438	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	300 Diesel	0.000807799	0.000971357	0.001156006	0.003152284	0.010560179	0.921468616	0.000383845	0.000376082	0	0	29890.81866	9472.73982	57.98184659	15848.6549	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	600 Diesel	0.002882541	0.00348974	0.004150889	0.012250175	0.05131876	4.705412674	0.001496172	0.001430487	0	0	15645.2372	2846.54288	28.50217603	295301.627	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	800 Diesel	0.00106552	0.00128928	0.00153435	0.000479766	0.002968337	0.413541555	0.0000441	0.0000421	0	0	13415.43262	1578.096655	1.583450313	26011.3422	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	175 Diesel	0.00010475	0.000121643	0.000144765	0.000429466	0.001296146	0.009154186	5.10624E-05	0.00004853	0	0	2924.63342	1599.11713	13.40611008	53275.88995	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	300 Diesel	0.000482269	0.000584226	0.000695262	0.02621341	0.094521504	8.659507627	0.002564727	0.000454552	0	0	28974.4553	46938.11723	37.94372887	454395.862	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	800 Diesel	0.008527016	0.010317718	0.012278917	0.033540272	0.1017395	6.057013691	0.00450277	0.000434657	0	0	196491.6461	20792.43197	17.42794603	3800216.486	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	9999 Diesel	0.000579969	0.010381761	0.01235515	0.034563726	0.102727283	8.26499396	0.00429581	0.000436779	0	0	26485.2386	15994.43897	13.40611008	528890.066	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	100 Diesel	0.00004285	0.00005232	0.000063555	0.000188865	0.000414886	0.016474803	0.00002106	0.00002106	0	0	4070.6402	5151.53226	0.40625	7196.015625	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	802 Diesel	0.001594229	0.001829102	0.002258283	0.006817264	0.024639487	26.6425641	0.000746852	0.000741168	0	0	15749.8878	19597.60869	10.82002012	105307.2425	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Excursion	Aggregate	100 Diesel	0.0001065	0.0001219	0.00015458	0.000429879	0.001099871	0.134731755	7.609E-05	7.275E-05	0	0	403.929066	3610.06791	0.727998513	7739.85513	0	0	0	
Orange (SC)	2027 Commercial Harbor Craft - ME - Excursion	Aggregate	300 Diesel	0.0006243																	







Orange (SC)	2027 Lawn and Garden - Misc - Chippers/Slump Grinders	Aggregate	2 Gasoline	2.40024E-05	2.64152E-05	2.42443E-05	0.000316993	2.56403E-06	0.000694666	1.09067E-08	8.24063E-08	1.28831E-08	1.77835E-08	47.61257238	0	20.76641278	0
Orange (SC)	2027 Lawn and Garden - Misc - Chippers/Slump Grinders	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0	7.713907937	0
Orange (SC)	2027 Lawn and Garden - Misc - Chippers/Slump Grinders	Aggregate	25 Diesel	2.07070E-06	2.97576E-06	2.48866E-06	6.49825E-06	0.000033913	0.000033913	5.20114E-07	3.99757E-07	1.97345E-07	1.69995E-08	67.63473018	0	0.1611735579	0
Orange (SC)	2027 Lawn and Garden - Misc - Chippers/Slump Grinders	Aggregate	5 Gasoline	9.00749E-05	0.000099122	9.09737E-05	0.004312235	0.000032287	0.000494831	1.49404E-07	1.1261E-07	1.60147E-07	2.21062E-07	616.897268	0	95.45569438	0
Orange (SC)	2027 Lawn and Garden - Misc - Lawn Mowers	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	0	35.45838123	0
Orange (SC)	2027 Lawn and Garden - Misc - Lawn Mowers	Aggregate	15 Gasoline	0.000153993	0.00016946	0.000155533	0.010729699	6.97939E-05	0.021188919	1.05084E-06	7.93968E-07	3.77025E-07	5.20433E-07	1439.248217	0	198.8588005	0
Orange (SC)	2027 Lawn and Garden - Misc - Lawn Mowers	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	0	88.91755009	0
Orange (SC)	2027 Lawn and Garden - Misc - Lawn Mowers	Aggregate	2 Gasoline	9.80619E-06	1.07911E-05	9.90424E-06	0.000227666	4.7032E-06	0.000576035	4.39799E-07	3.32284E-07	9.97076E-07	1.37633E-07	36.1053037	0	13.2373007	0
Orange (SC)	2027 Lawn and Garden - Misc - Lawn Mowers	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0	5.91897221	0
Orange (SC)	2027 Lawn and Garden - Misc - Lawn Mowers	Aggregate	25 Gasoline	0.000127587	0.000140401	0.000128863	0.000938398	4.35334E-05	0.017849709	8.85197E-07	6.68816E-07	3.10634E-07	4.28798E-07	1212.10475	0	14.31906641	0
Orange (SC)	2027 Lawn and Garden - Misc - Lawn Mowers	Aggregate	25 Electric	0	0	0	0	0	0	0	0	0	0	0	0	24.20792777	0
Orange (SC)	2027 Lawn and Garden - Misc - Lawn Mowers	Aggregate	5 Gasoline	0.033519497	0.03666074	0.033652691	1.683610931	0.0204730	4.327949789	0.000180728	0.00013655	7.04016E-06	9.71803E-05	264436.5399	0	54.86720938	0
Orange (SC)	2027 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Gasoline	1.74456E-06	1.95667E-05	1.57867E-05	0.007045459	5.06243E-05	0.013790015	2.45594E-07	1.85001E-07	2.3025E-07	2.28874E-07	935.4559213	0	38.14794015	0
Orange (SC)	2027 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	15 Gasoline	0.000779818	0.00085495	0.000784687	0.05662048	0.000576756	0.136946429	0.09232E-06	1.58154E-06	2.1978E-06	3.03378E-06	8527.466044	0	445.437848	0
Orange (SC)	2027 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Gasoline	0.083770995	0.02184871	0.084608706	0.534145578	0.003701648	2.180078329	0.001177292	0.000889509	3.14864E-06	4.34628E-05	123520.502	0	147.6762631	0
Orange (SC)	2027 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0	35701.64536	0
Orange (SC)	2027 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Gasoline	1.66157E-05	1.83441E-05	1.67814E-05	0.001231383	1.821E-05	0.004416525	1.85654E-06	3.91872E-06	6.09951E-06	8.41599E-06	239.1393336	0	4.405153325	0
Orange (SC)	2027 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Gasoline	0.11413206	0.125556631	0.115274537	0.425060124	0.002841192	0.000215287	0.000342026	0.000214026	6.63634E-05	0.01949E-05	143102.9956	0	1714.166037	0
Orange (SC)	2027 Lawn and Garden - Misc - Leaf Blowers/Vacuums	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	0	1912.140255	0
Orange (SC)	2027 Lawn and Garden - Misc - Other	Aggregate	15 Gasoline	0.000421425	0.000463753	0.00042564	0.023885537	0.000152149	0.058160673	1.03656E-06	7.83179E-07	9.31149E-07	1.28533E-06	3624.503803	0	442.369384	0
Orange (SC)	2027 Lawn and Garden - Misc - Other	Aggregate	15 Diesel	7.77075E-07	1.11706E-06	9.3465E-07	5.52096E-06	6.56987E-06	0.000921248	2.31048E-07	1.7457E-07	6.63863E-09	7.4414E-09	29.60658319	0	0.124495346	0
Orange (SC)	2027 Lawn and Garden - Misc - Other	Aggregate	25 Gasoline	7.44856E-05	1.95667E-05	7.52380E-05	0.007045459	5.06243E-05	0.013790015	2.45594E-07	1.85001E-07	2.3025E-07	2.28874E-07	935.4559213	0	38.14794015	0
Orange (SC)	2027 Lawn and Garden - Misc - Other	Aggregate	25 Diesel	1.42547E-07	2.09131E-07	1.71452E-07	1.08345E-07	6.00014212	1.08345E-08	6.00014212	1.08345E-08	1.35893E-08	1.17059E-09	4.65734892	0	0.014724145	0
Orange (SC)	2027 Lawn and Garden - Misc - Other	Aggregate	5 Gasoline	0.000212403	0.000233736	0.000214527	0.010480593	8.2541E-05	0.02959935	3.77149E-07	2.84958E-07	3.97383E-07	5.45336E-07	1519.370424	0	360.2048806	0
Orange (SC)	2027 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	15 Gasoline	0.001596481	0.001756831	0.001612446	0.09011849	0.00128756	0.24790295	5.65712E-06	4.27426E-06	3.77549E-06	5.81256E-06	1477.96111	0	386.1759929	0
Orange (SC)	2027 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	15 Diesel	0.000191364	0.000282636	0.000239521	0.001410033	0.00168364	0.230961204	5.92103E-06	4.47367E-06	2.21381E-06	1.907E-06	7587.221066	0	268.5978465	0
Orange (SC)	2027 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	0	24.01109071	0
Orange (SC)	2027 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	25 Gasoline	0.053624084	0.059010322	0.054160324	3.16007731	0.027426255	6.24829068	0.000152112	0.000114929	0.00011224	0.000154937	440378.8315	0	451.00974	0
Orange (SC)	2027 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	25 Diesel	0.0006011	0.00086409	0.00072299	0.02467671	0.004568734	0.000153641	0.000116084	5.70399E-06	4.93621E-06	1.963936649	547.421056	0	547.421056	0
Orange (SC)	2027 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	25 Electric	0	0	0	0	0	0	0	0	0	0	0	0	267.4174766	0
Orange (SC)	2027 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	5 Gasoline	0.000186083	0.000202529	0.000180374	0.006666006	7.5488E-06	0.01464173	3.49094E-07	2.57572E-07	2.50357E-07	3.45585E-07	961.016397	0	62.85822385	0
Orange (SC)	2027 Lawn and Garden - Misc - Rear Engine Riding Mowers	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	0	461.9276381	0
Orange (SC)	2027 Lawn and Garden - Misc - Snowblowers	Aggregate	15 Gasoline	0.000210346	0.000231473	0.000212449	0.016102331	0.000101021	0.02630857	4.79925E-07	3.62611E-07	5.28031E-07	7.28788E-07	1952.39344	0	381.924232	0
Orange (SC)	2027 Lawn and Garden - Misc - Snowblowers	Aggregate	15 Electric	0	0	0	0	0	0	0	0	0	0	0	0	46.00071402	0
Orange (SC)	2027 Lawn and Garden - Misc - Snowblowers	Aggregate	25 Gasoline	6.65454E-07	7.33292E-07	6.722E-07	6.89407E-05	4.72851E-07	0.000116238	2.05476E-09	1.55249E-09	2.1797E-09	3.00878E-09	8.32841824	0	0.951440114	0
Orange (SC)	2027 Lawn and Garden - Misc - Snowblowers	Aggregate	25 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0.084749344	0
Orange (SC)	2027 Lawn and Garden - Misc - Snowblowers	Aggregate	5 Gasoline	9.48118E-05	0.000104335	9.57599E-05	0.00057807	4.01147E-05	0.010823809	1.7908E-07	1.35305E-07	1.84847E-07	2.55158E-07	712.4839871	0	347.2756773	0
Orange (SC)	2027 Lawn and Garden - Misc - Snowblowers	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	0	34.58344099	0
Orange (SC)	2027 Lawn and Garden - Misc - Tillers	Aggregate	15 Gasoline	0.000309916	0.000340594	0.000312106	0.020033204	0.000187115	0.047637442	7.80279E-07	5.89544E-07	7.26131E-07	1.06649E-06	2991.144222	0	481.6756907	0
Orange (SC)	2027 Lawn and Garden - Misc - Tillers	Aggregate	2 Gasoline	0.001245939	0.001370269	0.00125880	0.036798971	2.72772E-05	0.002998409	0.034586E-06	1.54576E-06	3.30264E-06	4.55887E-06	1160.973477	0	654.5030493	0
Orange (SC)	2027 Lawn and Garden - Misc - Tillers	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0	203.6885998	0
Orange (SC)	2027 Lawn and Garden - Misc - Tillers	Aggregate	5 Gasoline	0.00019177	0.00021031	0.000193688	0.009934646	6.24102E-05	0.02172206	3.1324E-07	2.3667E-07	3.71108E-07	5.12266E-07	1417.417142	0	375.1203083	0
Orange (SC)	2027 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	15 Gasoline	1.74295E-05	1.91801E-05	1.76938E-05	0.000978647	6.6408E-06	0.00237025	3.61969E-08	2.73281E-08	3.87041E-08	5.34261E-08	147.9120758	0	12.3611006	0
Orange (SC)	2027 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	2 Gasoline	0.12729699	0.131129945	0.124024961	0.697385674	0.00740998	3.56875225	0.000105964	0.000800786	4.85492E-06	6.70158E-05	18961.3447	0	39715.70854	0
Orange (SC)	2027 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	2 Electric	0	0	0	0	0	0	0	0	0	0	0	0	59975.1012	0
Orange (SC)	2027 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	25 Gasoline	1.94296E-05	2.13811E-05	1.96239E-05	0.000989481	8.04948E-06	0.00349647	4.09732E-08	5.0414E-08	6.959E-08	1.966462974	0	0	451.00974	0
Orange (SC)	2027 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	5 Gasoline	0.004516365	0.00019502	0.004609878	0.085843453	0.000254479	0.27570159	5.43483E-05	1.0632E-05	4.04761E-06	5.8792E-06	15908.1365	0	1260.610791	0
Orange (SC)	2027 Lawn and Garden - Misc - Trimmers/Edgers/Brush Cutters	Aggregate	5 Electric	0	0	0	0	0	0	0	0	0	0	0	0	98.07147871	0
Orange (SC)	2027 Lawn and Garden - Misc - Wood Splitters	Aggregate	15 Gasoline	0.005960139	0.006555169	0.00601917	0.315200734	0.000210072	0.757525426	1.22953E-06	1.60898E-05	1.11808E-05	1.6814E-05	47325.765796	0	15825.85796	0
Orange (SC)	2027 Lawn and Garden - Misc - Wood Splitters	Aggregate	2 Gasoline	0.00011629	0.00012797	0.000117453	0.003187558	6.3403E-05	0.006916661	1.89331E-07	1.4305E-07	1.2102E-07	1.67137E-07	459.934648	0	42.4745585	0
Orange (SC)	2027 Lawn and Garden - Misc - Wood Splitters	Aggregate	5 Gasoline	3.5324E-06	3.89032E-06	3.57059E-06	0.000216895	1.53399E-06	0.000488888	1.30746E-08	9.87862E-09	8.00011E-09	1.10431E-08	31.3956735	0	0.32032072	0
Orange (SC)	2027 Lawn and Garden - Misc - Wood Splitters	Aggregate	5 Gasoline	0.000372447	0.000408855	0.000373171	0.01805078	0.000130583	0.38012971	1.08981E-06	8.23411E-07	6.70321E-07	9.29034E-07	2591.038486	0	152.80454	0
Orange (SC)	2027 Light Commercial - Misc - Air Compressors	Aggregate	10 Gasoline	0.00638236	0.000487945	0.007023398	0.350097392	0.01587483	7.02020483	0.0							







OFFROAD 2028

Equipment Type	Horsepower	Gasoline				Diesel				Natural Gas				
		Fuel (Gal/Yr)	Population	CO2 (Mts/Yr)	Cost (\$/Yr)	Fuel (Gal/Yr)	Population	CO2 (Mts/Yr)	Cost (\$/Yr)	Fuel (Gal/Yr)	Population	CO2 (Mts/Yr)	Cost (\$/Yr)	
Air Compressors25	Air Compressors	25	9671.941257	33.02728853	0	0	0	0	0	0	0	0	0	
Air Compressors50	Air Compressors	50	53490.75	49.17	2365.15	2.250806328	93549.5	112.77	91793.85	1.019126009	0	0	0	
Air Compressors75	Air Compressors	75	0	0	0	0	0	0	0	0	0	0	0	
Air Compressors100	Air Compressors	100	289153	159.4	7705.15	3.75272828	0	0	0	0	0	0	0	
Air Compressors175	Air Compressors	175	35470	10.74	5179.35	6.848404848	0	0	0	0	0	0	0	
Air Compressors300	Air Compressors	300	0	0	0	0	0	0	0	0	0	0	0	
Air Compressors600	Air Compressors	600	0	0	0	0	0	0	0	0	0	0	0	
Air Compressors750	Air Compressors	750	0	0	0	0	0	0	0	0	0	0	0	
Air Compressors9999	Air Compressors	9999	0	0	0	0	0	0	0	0	0	0	0	
Aerial Lifts25	Aerial Lifts	25	2744.984812	15.25153436	0	0	20.06396924	9.359387032	0	55874.2	125.97	47282.1	1.181719932	
Aerial Lifts50	Aerial Lifts	50	74668.05	130.25	47055.8	1.586798014	128087.9609	497.6679807	156665.1982	0.817590392	0	0	0	
Aerial Lifts75	Aerial Lifts	75	0	0	0	0	125890.919	351.5851661	110183.6263	1.142555598	0	0	0	
Aerial Lifts100	Aerial Lifts	100	134126.55	130.25	47055.8	2.850372324	97607.42242	251.3000186	79183.35333	1.23267604	0	0	0	
Aerial Lifts175	Aerial Lifts	175	0	0	0	0	13653.1998	20.80232493	6569.938021	1.07906749	0	0	0	
Aerial Lifts300	Aerial Lifts	300	0	0	0	0	816.2506953	0.704579491	222.7003033	3.665243855	0	0	0	
Aerial Lifts600	Aerial Lifts	600	0	0	0	0	579.656291	0.23485983	74.23343444	7.805650865	0	0	0	
Bore/Drill rigs25	Bore/Drill rigs	25	219.9826912	2.319580154	0	0	9.45102877	1.486960703	0	0	0	0	0	
Bore/Drill rigs50	Bore/Drill rigs	50	693.5	2.52	273.75	2.533333333	2339.94201	5.587830846	2052.768614	1.139895648	0	0	0	
Bore/Drill rigs75	Bore/Drill rigs	75	0	0	0	0	3221.213377	3.219076466	1851.54997	1.795363023	0	0	0	
Bore/Drill rigs100	Bore/Drill rigs	100	7858.45	11.5	1226.4	6.407738095	11809.31797	14.39473816	5520.96099	2.138996814	0	0	0	
Bore/Drill rigs175	Bore/Drill rigs	175	2744.8	2.85	306.6	8.95280952	18026.0564	14.0910517	4614.200632	3.906647725	0	0	0	
Bore/Drill rigs300	Bore/Drill rigs	300	0	0	0	0	26363.29343	14.21252628	4862.181758	5.427112429	0	0	0	
Bore/Drill rigs600	Bore/Drill rigs	600	0	0	0	0	36105.94038	10.93494882	3610.586073	9.998525691	0	0	0	
Bore/Drill rigs750	Bore/Drill rigs	750	0	0	0	0	28695.26704	3.036846549	1796.993486	16.52483113	0	0	0	
Bore/Drill rigs9999	Bore/Drill rigs	9999	0	0	0	0	13349.01281	0.364423751	276.4882945	48.28057128	0	0	0	
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	120.1255226	1.635190066	0	0	2.702650322	1.046641902	0	0	0	0	0	
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers175	Cement and Mortar Mixers	175	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers9999	Cement and Mortar Mixers	9999	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws25	Concrete/Industrial Saws	25	3947.568844	17.74425661	0	0	1.847869972	0.386461101	0	0	0	0	0	
Concrete/Industrial Saws50	Concrete/Industrial Saws	50	15771.65	9.33	5701.3	2.766325224	4964	6.21	3595.25	1.38071066	0	0	0	
Concrete/Industrial Saws75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws100	Concrete/Industrial Saws	100	15388.4	5.33	3266.75	4.710614525	0	0	0	0	0	0	0	
Concrete/Industrial Saws175	Concrete/Industrial Saws	175	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws600	Concrete/Industrial Saws	600	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws9999	Concrete/Industrial Saws	9999	0	0	0	0	0	0	0	0	0	0	0	
Cranes25	Cranes	25	0	0	0	0	47.20427202	0.228843064	114.0266366	0.413975834	0	0	0	
Cranes50	Cranes	50	2325.05	2.85	1186.25	1.96	764.288266	2.40992682	1109.085792	0.689116957	0	0	0	
Cranes75	Cranes	75	0	0	0	0	375.8294078	1.067342989	369.8098688	1.0291167	0	0	0	
Cranes100	Cranes	100	7832.9	5.69	2265.2	3.11728395	18374.33859	29.7495832	13959.38015	1.316314793	0	0	0	
Cranes175	Cranes	175	500.05	0.16	83.95	5.956521739	51753.70929	49.65894488	23456.22183	2.206395799	0	0	0	
Cranes300	Cranes	300	0	0	0	0	89351.30019	55.68514557	27367.48049	3.264871248	0	0	0	
Cranes600	Cranes	600	0	0	0	0	157806.9014	56.82936089	29173.59715	5.40927301	0	0	0	
Cranes750	Cranes	750	0	0	0	0	6394.081275	1.27854384	696.2052144	9.181861374	0	0	0	
Cranes9999	Cranes	9999	0	0	0	0	8784.889601	1.220496341	629.2312493	13.96130534	0	0	0	
Crawler Tractors25	Crawler Tractors	25	0	0	0	0	0	0	0	0	0	0	0	
Crawler Tractors50	Crawler Tractors	50	0	0	0	0	2483.201683	6.77014743	2403.339998	1.033229458	0	0	0	
Crawler Tractors75	Crawler Tractors	75	0	0	0	0	2053.651719	4.402658289	1327.69445	1.627271037	0	0	0	
Crawler Tractors100	Crawler Tractors	100	0	0	0	0	107136.3132	111.9105137	5513.8961	1.945228498	0	0	0	
Crawler Tractors175	Crawler Tractors	175	0	0	0	0	119395.2721	76.43496448	36046.72121	3.312236678	0	0	0	
Crawler Tractors300	Crawler Tractors	300	0	0	0	0	122321.6342	57.07234283	27043.46768	4.523149012	0	0	0	
Crawler Tractors600	Crawler Tractors	600	0	0	0	0	441274.2726	105.9528073	51688.98529	8.537100457	0	0	0	
Crawler Tractors750	Crawler Tractors	750	0	0	0	0	3994.408339	0.609132669	291.7993399	13.48981577	0	0	0	
Crawler Tractors9999	Crawler Tractors	9999	0	0	0	0	25427.52938	2.031044229	1169.772951	21.73714939	0	0	0	
Crushing/Proc. Equipment25	Crushing/Proc. Equipment	25	40.56415732	0.191458594	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment50	Crushing/Proc. Equipment	50	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment75	Crushing/Proc. Equipment	75	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment100	Crushing/Proc. Equipment	100	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment175	Crushing/Proc. Equipment	175	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment300	Crushing/Proc. Equipment	300	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment600	Crushing/Proc. Equipment	600	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment750	Crushing/Proc. Equipment	750	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment9999	Crushing/Proc. Equipment	9999	0	0	0	0	0	0	0	0	0	0	0	
Dumpers/Tenders25	Dumpers/Tenders	25	14431.32734	283.0438005	41533.35	0.347463601	1.337110821	0.540452191	0	0	0	0	0	
Dumpers/Tenders100	Dumpers/Tenders	100	657	2.07	259.15	2.535211268	0	0	0	0	0	0	0	
Excavators25	Excavators	25	0	0	0	0	30.6248807	0.983181706	38.44972511	0.796486337	0	0	0	
Excavators50	Excavators	50	0	0	0	0	9917.11261	165.89757	12600.7295	0.713156894	0	0	0	
Excavators75	Excavators	75	0	0	0	0	1270.459398	1.763758151	907.0749615	1.400607439	0	0	0	
Excavators100	Excavators	100	0	0	0	0	127296.9694	117.6969382	79490.9778	1.601401479	0	0	0	
Excavators175	Excavators	175	0	0	0	0	271313.0543	152.7007538	94012.39914	2.885928418	0	0	0	
Excavators300	Excavators	300	0	0	0	0	345932.398	131.6049028	28970.8336	4.325730551	0	0	0	
Excavators600	Excavators	600	0	0	0	0	610569.9082	137.6409727	91806.07674	6.604307073	0	0	0	
Excavators750	Excavators	750	0	0	0	0	11868.09693	1.628084447	976.0748874	12.15900244	0	0	0	
Excavators9999	Excavators	9999	0	0	0	0	17090.32474	1.01755278	718.6148833	23.78231392	0	0	0	
Forklifts25	Forklifts	25	52.2776882	0.117532588	0	0	39.14764564	0.235752123	68.0739975	0.578024422	1.485.55	1.21	1514.75	0.980722892
Forklifts50	Forklifts	50	12484.1	436.74	7836.11	1.593708074	629.82371	240.5818316	1084.2513	196858.116	818.5	14745.3	1.335010768	
Forklifts75	Forklifts	75	0	0	0	0	20203.45494	41.09800762						



Region	Calendar Year	Vehicle Category	Model Year	Horsepower B Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption Total	Air Quality Total	Population	Horsepower_Hhpy	
Sweepers/Scrubbers175	2028	Sweepers/Scrubbers	175	2730.2	0.59	310.25	8.8	0	0	0	0	0	0	0	0	0	0	0	0
Sweepers/Scrubbers300	2028	Sweepers/Scrubbers	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweepers/Scrubbers600	2028	Sweepers/Scrubbers	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweepers/Scrubbers750	2028	Sweepers/Scrubbers	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweepers/Scrubbers9999	2028	Sweepers/Scrubbers	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes25	2028	Tractors/Loaders/Backhoes	25	0	0.001102	0	0	45.7054981	6.23991234	0	0	0	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes50	2028	Tractors/Loaders/Backhoes	50	0	0	0	0	83125.42189	194.5933356	10464.20439	0.794378800	0	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes75	2028	Tractors/Loaders/Backhoes	75	0	0	0	0	126.3740269	38.2925944	9.946369788	0.000000000	0	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes100	2028	Tractors/Loaders/Backhoes	100	25513.3	10.02	8723.5	2924686192	1334639.118	1282.553448	835746.657	1.598942215	0	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes175	2028	Tractors/Loaders/Backhoes	175	0	0	0	0	232875.1272	147.809572	85350.12075	2.728468632	0	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes300	2028	Tractors/Loaders/Backhoes	300	0	0	0	0	147886.271	63.2597847	37072.6578	1.98092764	0	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes600	2028	Tractors/Loaders/Backhoes	600	0	0	0	0	188156.7255	51.33675783	29243.67534	6.434100321	0	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes750	2028	Tractors/Loaders/Backhoes	750	0	0	0	0	6629.34661	1.07038339	564.0209399	11.8222255	0	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes9999	2028	Tractors/Loaders/Backhoes	9999	0	0	0	0	65222.93246	2.84770735	1848.118104	35.2915917	0	0	0	0	0	0	0	0
Trenchers25	2028	Trenchers	25	4900.19283	15.0509372	0	0	44.41873569	4.454509153	0	0	0	0	0	0	0	0	0	0
Trenchers50	2028	Trenchers	50	46446.25	51.8	20837.85	2.228936767	29540.69395	63.8089957	25569.66007	1.153305099	0	0	0	0	0	0	0	0
Trenchers75	2028	Trenchers	75	0	0	0	0	1474.043269	3.19044699	805.4518704	1.78577994	0	0	0	0	0	0	0	0
Trenchers100	2028	Trenchers	100	28637.9	17.18	6916.75	4.140369393	19809.13982	26.17618941	9076.064802	2.182562336	0	0	0	0	0	0	0	0
Trenchers175	2028	Trenchers	175	0	0	0	0	4535.143983	4.133082538	1240.970214	3.654514778	0	0	0	0	0	0	0	0
Trenchers300	2028	Trenchers	300	0	0	0	0	9756.851138	5.148225618	1666.344785	5.85241501	0	0	0	0	0	0	0	0
Trenchers600	2028	Trenchers	600	0	0	0	0	16668.18218	4.205292758	1638.353366	10.29947015	0	0	0	0	0	0	0	0
Trenchers750	2028	Trenchers	750	0	0	0	0	3443.431165	0.286355	755.2924564	0.000000000	0	0	0	0	0	0	0	0
Trenchers9999	2028	Trenchers	9999	0	0	0	0	385.2745207	0.07251022	17.23210739	22.35794566	0	0	0	0	0	0	0	0
Welders25	2028	Welders	25	0	0	0	0	7743.111891	23.80977558	0	0	0	0	0	0	0	0	0	0
Welders50	2028	Welders	50	128593.15	256.86	53370.3	2.409455111	429556.8	563.61	361963.2	1.188180993	0	0	0	0	0	0	0	0
Welders75	2028	Welders	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Welders100	2028	Welders	100	180291.75	262.17	54461.65	3.310434957	0	0	0	0	0	0	0	0	0	0	0	0
Welders175	2028	Welders	175	25765.95	18.1	3755.85	6.008745556	0	0	0	0	0	0	0	0	0	0	0	0
Welders300	2028	Welders	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Welders600	2028	Welders	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Welders750	2028	Welders	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Welders9999	2028	Welders	9999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Model Output: OFFROAD2021 (v1.0.1) Emissions Inventory  
Region Type: Sub-Area  
Region: Orange (SC)  
Calendar Year: 2028  
Scenario: All Adopted Exts - Exhaust  
Vehicle Classification: OFFROAD2021 Equipment Types  
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower B Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption Total	Air Quality Total	Population	Horsepower_Hhpy	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	100 Gasoline	7.25905E-08	8.77642E-08	1.04444E-07	1.14848E-06	2.56445E-07	3.75739E-05	2.82635E-09	2.60041E-09	3.40260E-10	3.06343E-10	1.21732589	7.24477089	0.00367853	32.49829033	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	100 Diesel	0.00127380	0.00127380	0.00127380	0.00127380	0.00127380	0.00127380	0.00127380	0.00127380	0.00127380	0.00127380	0.00127380	1.93024E-05	7.60606E-05	70201.96097	2520.38802
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	175 Gasoline	7.59955E-08	9.19545E-08	1.09433E-07	1.27037E-06	5.55898E-07	7.97213E-05	5.9719E-09	5.53739E-09	7.24284E-10	6.49974E-10	2.583868372	8.898109777	0.006106806	68.95188576	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	175 Diesel	0.000485733	0.000587737	0.000699455	0.000824237	0.000465234	0.009724736	0.000217351	0.000199963	0.00793996E-06	1.833544E-06	32338.47962	2497.497395	13.52217352	100021.279	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	25 Gasoline	1.72961E-06	2.02823E-06	2.49064E-06	2.49695E-05	4.3667E-07	7.46897E-05	4.44272E-08	4.08872E-08	6.28818E-10	6.08951E-10	2.420615821	91.33049375	0.038862321	64.59978263	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	25 Diesel	0.0001316	0.000159236	0.000189504	0.000251005	0.000370047	0.001154437	2.02945E-05	2.02819E-05	4.25808E-07	5.28454E-07	1528.227076	802.4295982	4.457460488	5467.13359	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	50 Gasoline	0.000188283	0.000222828	0.000267564	0.000342226	0.000523226	0.000166929	5.68326E-06	6.34391E-06	5.68024E-06	2.25793095	157.499496	6.25743095	3.27499496	3.21483189	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	50 Diesel	0.000188283	0.000222828	0.000267564	0.000342226	0.000523226	0.000166929	5.68326E-06	6.34391E-06	5.68024E-06	2.25793095	157.499496	6.25743095	3.27499496	3.21483189	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	600 Gasoline	0.000188283	0.000222828	0.000267564	0.000342226	0.000523226	0.000166929	5.68326E-06	6.34391E-06	5.68024E-06	2.25793095	157.499496	6.25743095	3.27499496	3.21483189	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	600 Diesel	0.000188283	0.000222828	0.000267564	0.000342226	0.000523226	0.000166929	5.68326E-06	6.34391E-06	5.68024E-06	2.25793095	157.499496	6.25743095	3.27499496	3.21483189	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	750 Gasoline	0.000188283	0.000222828	0.000267564	0.000342226	0.000523226	0.000166929	5.68326E-06	6.34391E-06	5.68024E-06	2.25793095	157.499496	6.25743095	3.27499496	3.21483189	
Orange (SC)	2028	2028 Agricultural - Agricultural Tractors	Aggregate	750 Diesel	0.000188283	0.000222828	0.000267564	0.000342226	0.000523226	0.000166929	5.68326E-06	6.34391E-06	5.68024E-06	2.25793095	157.499496	6.25743095	3.27499496	3.21483189	
Orange (SC)	2028	2028 Agricultural - ATVs	Aggregate	100 Gasoline	1.22035E-05	1.47684E-05	1.75756E-05	0.000645129	5.06899E-05	0.04522846	3.40222E-06	3.13005E-06	4.11822E-07	3.68738E-07	1465.758854	52.61970922	1.863346136	4690.52908	
Orange (SC)	2028	2028 Agricultural - ATVs	Aggregate	175 Gasoline	1.40727E-05	1.67972E-05	2.01919E-05	0.000844809	7.3625E-05	0.006809923	4.9409E-06	4.59436E-06	5.98181E-07	5.35502E-07	2128.63154	29.61257931	1.448433066	6819.62737	
Orange (SC)	2028	2028 Agricultural - ATVs	Aggregate	175 Diesel	0.66523E-08	8.14932E-08	5.27939E-08	8.88069E-07	3.03899E-07	0.000162326	1.25546E-08	1.15359E-08	1.17748E-09	1.32272E-09	6.25783497	71.11882605	0.00214184	250.169825	
Orange (SC)	2028	2028 Agricultural - ATVs	Aggregate	25 Gasoline	0.00120848	0.001462101	0.001740021	0.015465009	0.00073076	0.006019825	5.43402E-05	4.95855E-05	5.28985E-05	5.05652E-07	2009.999113	270.376113	1.11393359	64369.80673	
Orange (SC)	2028	2028 Agricultural - ATVs	Aggregate	25 Diesel	2.30549E-05	2.78945E-05	3.31991E-05	0.000240742	0.000323767	0.003665388	9.029E-06	8.30668E-06	3.33469E-06	1.188287732	294.1262484	3.355728824	50968.22447		
Orange (SC)	2028	2028 Agricultural - ATVs	Aggregate	25 Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Orange (SC)	2028	2028 Agricultural - ATVs	Aggregate	50 Gasoline	2.95035E-05	3.56992E-05	4.24855E-05	0.00020323	7.78627E-06	0.001674807	5.07134E-06	4.66536E-06	6.13519E-07	5.49638E-07	2184.844991	199.1287805	7.460512078	69969.20994	
Orange (SC)	2028	2028 Agricultural - ATVs	Aggregate	50 Diesel	5.84836E-05	7.01703E-05	8.41513E-05	0.000677884	0.000507784	0.018124305	1.52062E-05	1.39897E-05	9.81759E-07	8.81627E-07	3504.519009	518.0984833			



Orange (SC)	2028 Airport Ground Support - Misc - Other	Aggregate	50 Nat Gas	0.000130589	0.000212016	0.0000143705	0.010342956	0.000277646	0.104150256	7.18003E-06	5.42491E-06	1.16628E-06	1.60602E-06	4584.4	1752	9.61	87600	
Orange (SC)	2028 Airport Ground Support - Misc - Other	Aggregate	50 No Gas	0	0	0	1.01232E-05	0.000159139	0.000443009	0.09417513	0	0	0	5026.0	1846.9	1.8	92345	
Orange (SC)	2028 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Diesel	4.42918E-07	4.07396E-05	0.000157425	0.000459072	0.000099989	0.000043117	0.000000000	1.0015E-05	7.56689E-06	1.23638E-06	1.94743E-06	5558.95	824.9	4.43	10349.96
Orange (SC)	2028 Airport Ground Support - Misc - Passenger Stand	Aggregate	300 Sulfur	0	0	0	0.000000000	0	0	0	0	0	0	0	0	0	0.31	0
Orange (SC)	2028 Airport Ground Support - Misc - Service Truck	Aggregate	300 Nat Gas	0.000799665	0.000735532	0.000079983	0.001771039	0.000459179	1.255159031	9.25937E-05	6.99597E-05	1.77519E-05	5.0672E-05	15764.35	18.74	283.583	0	
Orange (SC)	2028 Airport Ground Support - Misc - Sweeper	Aggregate	100 Gasoline	5.95484E-06	5.47693E-06	6.52544E-06	0.000388426	3.24071E-05	0.000881667	6.85801E-07	5.11661E-07	8.12008E-08	1.39376E-07	39.85	156.95	1.83	8365.435	
Orange (SC)	2028 Airport Ground Support - Misc - Water Truck	Aggregate	175 Diesel	0	0	0	0.000000000	0	0	0	0	0	0	0	0	0	51.1	0
Orange (SC)	2028 Airport Ground Support - Misc - Water Truck	Aggregate	175 Diesel	1.30258E-05	1.19812E-05	1.48341E-05	0.00187562	0.00001116	0.034802505	2.00339E-06	1.88994E-06	3.46166E-07	4.88456E-07	1394.3	518.3	1.65	7745.5	
Orange (SC)	2028 Airport Ground Support - Other	Aggregate	100 Diesel	2.68186E-05	3.24505E-05	3.86188E-05	0.000735766	0.000390006	0.11232E-04	1.00935E-05	9.28601E-06	1.04673E-06	9.2476E-07	3675.97248	2535.749572	5.115458414	211891.1233	
Orange (SC)	2028 Airport Ground Support - Other	Aggregate	175 Diesel	8.98115E-05	0.000108672	0.000129329	0.000222022	0.00081253	0.37364178	3.44027E-05	3.16505E-05	3.45181E-06	12122.39607	4507.798189	696765.5358	0	0	
Orange (SC)	2028 Airport Ground Support - Other	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2028 Airport Ground Support - Other	Aggregate	300 Diesel	9.08366E-05	0.00019913	0.000130983	0.000016979	0.000061791	0.30933832	3.53081E-05	3.24835E-05	3.41199E-06	3.01449E-07	11982.77601	3064.950551	6.287750967	69071.0057	
Orange (SC)	2028 Airport Ground Support - Other	Aggregate	50 Diesel	0.000021292	0.000123652	0.000147156	0.001341979	0.001112389	0.01956687	2.19719E-05	2.68436E-05	1.76899E-06	1.56436E-06	6218.420521	9384.80932	19.18296905	32246.816	
Orange (SC)	2028 Airport Ground Support - Other	Aggregate	600 Diesel	6.02611E-05	7.29158E-05	8.67758E-05	0.000551806	0.000238234	2.29529E-05	2.11167E-05	1.76899E-06	1.88035E-06	7474.501744	9198.779518	15.2157157	430580.2821		
Orange (SC)	2028 Airport Ground Support - Other	Aggregate	75 Diesel	3.27040E-05	3.8628E-05	4.71668E-05	0.000540041	0.000449029	0.09849189	1.68803E-05	1.52299E-05	9.13852E-07	8.0761E-07	3210.297181	2821.88239	5.861462766	185053.0229	
Orange (SC)	2028 Airport Ground Support - Passenger Stand	Aggregate	175 Diesel	6.04148E-07	7.31009E-07	8.69961E-07	5.67148E-06	9.33411E-06	0.000907849	5.69426E-06	5.23872E-07	6.74095E-07	29.54417326	13.09273252	1.057839446	1440.19587	0	0
Orange (SC)	2028 Airport Ground Support - Passenger Stand	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2028 Airport Ground Support - Passenger Stand	Aggregate	300 Diesel	1.96943E-07	2.38301E-07	2.83597E-07	1.33537E-06	4.46558E-06	0.00077147	9.60348E-06	8.83516E-06	6.99429E-06	6.19793E-06	24.5648008	4.451529969	0.115668992	1213.040834	
Orange (SC)	2028 Airport Ground Support - Passenger Stand	Aggregate	50 Diesel	1.17434E-06	1.41864E-06	1.68836E-06	1.12021E-05	0.00129418	6.30112E-07	5.79703E-07	1.78033E-06	1.54747E-06	62.59784615	64.023418	0.009863972	2767.932679		
Orange (SC)	2028 Airport Ground Support - Passenger Stand	Aggregate	600 Diesel	5.91732E-08	7.15996E-08	8.52094E-08	1.49640E-06	1.44558E-07	0.000854395	1.84212E-08	1.71255E-08	7.89735E-09	6.97346E-09	27.71991283	4.45125996	0.011668992	1368.844244	
Orange (SC)	2028 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	100 Diesel	0.0000358	0.0000433	0.0000515	0.00016577	0.00014517	0.127294585	0.0000414	0.0000396	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	50 Diesel	5.39E-05	0.0000653	7.77E-05	0.00044831	0.00140857	0.161520399	0.000053	0.0000507	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	75 Diesel	0.0000275	0.0000333	0.0000396	0.000140577	0.000059765	0.08777776	0.000024	0.000023	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	25 Diesel	0.0002773	0.00033273	0.00031317	0.001597077	0.00051821	0.16448703	0.0002513	0.00016662	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	50 Diesel	0.0017878	0.00212446	0.00257393	0.00707626	0.01111285	1.20934103	0.00074251	0.00071059	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	75 Diesel	0.00094838	0.001147909	0.00136529	0.00385175	0.011936025	0.005232972	0.000707597	0.000673559	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Crew/Supply	Aggregate	50 Diesel	0.000151486	0.000183298	0.00022185	0.00031975	0.00031975	0.000133062	0.000121027	0	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Excursion	Aggregate	175 Diesel	0.000312005	0.000388383	0.000462334	0.00226114	0.00811244	1.04411255	0.000381211	0.000304153	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Excursion	Aggregate	25 Diesel	1.22452E-04	3.80431E-04	4.69374E-04	0.00131225	0.00029906	0.000000000	4.92212E-05	1.44485E-05	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Excursion	Aggregate	300 Diesel	0.00081856	0.000992088	0.0118066	0.003682669	0.012685911	1.9865002	0.000252295	0.000499136	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Excursion	Aggregate	50 Diesel	0.000394407	0.000469529	0.00041495	0.000325107	0.000170306	0.0000162809	0	0	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Excursion	Aggregate	600 Diesel	0.000315025	0.000381159	0.000453592	0.001857972	0.008510891	0.994435312	0.000266566	0.000254789	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Excursion	Aggregate	75 Diesel	0.000664876	0.000804386	0.00097314	0.002614523	0.006290868	0.688218319	0.000465223	0.000435819	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Ferry-Catamaran	Aggregate	175 Diesel	0.649858E-04	8.05285E-05	9.97815E-05	0.00030928	0.000137912	0.24831402	6.5705E-05	6.2044E-05	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Research Boat	Aggregate	50 Diesel	0.0000486	0.0000588	0.0000699	0.0000054	0.000006	0.012758453	0.0000002	0.0000048	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Research Boat	Aggregate	75 Diesel	0.0000341	0.0000413	0.0000491	0.000122207	0.000170785	0.01792692	0.0000218	0.0000209	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - AE - Work Boat	Aggregate	50 Diesel	3.36127E-05	4.06731E-05	4.84932E-05	0.00032915	0.00064762	0.08307812	3.66867E-05	3.50664E-05	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	875 Diesel	0.00022173	0.000263273	0.00031317	0.001597077	0.00051821	0.16448703	0.0002513	0.00016662	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	300 Diesel	0.000791931	0.000958217	0.01140487	0.003106118	0.01056491	0.001392763	0.000378324	0.000361601	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	600 Diesel	0.00286706	0.003461513	0.004119314	0.012135662	0.0519101	4.705337813	0.0014893	0.001421778	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	800 Diesel	0.00107876	0.0013053	0.00155341	0.00481533	0.002987169	0.143151555	0.0004488	0.000429	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	175 Diesel	0.000939254	0.001112589	0.0013397	0.003992617	0.01212844	0.09037223	4.71257E-05	4.49778E-05	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	300 Diesel	0.0001478	0.000183298	0.00022185	0.00031975	0.00031975	0.000133062	0.000121027	0	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	600 Diesel	0.00047245	0.000575405	0.000684398	0.022859396	0.094001899	8.65934891	0.002256044	0.002144928	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	800 Diesel	0.00826325	0.009998473	0.01284166	0.095911826	0.656679508	0.004530262	0.004165564	0	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	9999 Diesel	0.000428996	0.010220249	0.01213942	0.03405387	0.124325696	8.264940607	0.004349964	0.004155624	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	100 Diesel	0.0001478	0.000183298	0.00022185	0.00031975	0.00031975	0.000133062	0.000121027	0	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	8025 Diesel	0.001615894	0.001955268	0.00232632	0.006871113	0.02462544	0.16452544	0.000797575	0.000726524	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Excursion	Aggregate	100 Diesel	0.0001065	0.000129	0.00015458	0.000429879	0.001099771	0.134731755	7.609E-05	7.275E-05	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Excursion	Aggregate	300 Diesel	0.000625843	0.000757317	0.000902188	0.0105774	0.196805585	0.000339461	0.000324778	0	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Excursion	Aggregate	600 Diesel	0.005041202	0.006097907	0.007292916	0.020365415	0.025396989	9.816274987	0.002171608	0.000293287	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Excursion	Aggregate	800 Diesel	0.0021523	0.0027468	0.00329668	0.010249617	0.031580239	0.158023929	0.000658174	0.000620376	0	0	0	0	0	0	0
Orange (SC)	2028 Commercial Harbor Craft - ME - Ferry-Catamaran	Aggregate	9999 Diesel	0														















OFFROAD 2029

Equipment Type	Horsepower	Gas				Diesel				Natural Gas				
		Fuel (Gal/Yr)	Population	CO <sub>2</sub> (Mts/Yr)	CH <sub>4</sub> (Mts/Yr)	Fuel (Gal/Yr)	Population	CO <sub>2</sub> (Mts/Yr)	CH <sub>4</sub> (Mts/Yr)	Fuel (Gal/Yr)	Population	CO <sub>2</sub> (Mts/Yr)	CH <sub>4</sub> (Mts/Yr)	
Air Compressors25	Air Compressors	25	9778.665408	13.3913873	0	0	850.8676174	1.612741802	0	0	0	0	0	
Air Compressors50	Air Compressors	50	53866.7	49.47	2392.1	2.251754654	9419.85	113.5	92385.15	1.01888507	0	0	0	
Air Compressors75	Air Compressors	75	0	0	0	0	0	0	0	0	0	0	0	
Air Compressors100	Air Compressors	100	290952.45	160.42	7755.2	3.751553087	0	0	0	0	0	0	0	
Air Compressors175	Air Compressors	175	35707.95	10.79	521.2	6.850840366	0	0	0	0	0	0	0	
Air Compressors300	Air Compressors	300	0	0	0	0	0	0	0	0	0	0	0	
Air Compressors600	Air Compressors	600	0	0	0	0	0	0	0	0	0	0	0	
Air Compressors750	Air Compressors	750	0	0	0	0	0	0	0	0	0	0	0	
Air Compressors9999	Air Compressors	9999	0	0	0	0	0	0	0	0	0	0	0	
Aerial Lifts25	Aerial Lifts	25	2781.437486	15.45739183	0	0	20.3757329	9.505437399	0	56403.45	127.16	47727.4	1.1817842	
Aerial Lifts50	Aerial Lifts	50	75091.45	131.1	47373.35	1.58059006	129527.3098	501.2000348	158425.6751	0.817590392	0	0	0	
Aerial Lifts75	Aerial Lifts	75	0	0	0	0	82538.72345	235.8170999	73968.96989	1.11856062	0	0	0	
Aerial Lifts100	Aerial Lifts	100	134962.4	131.1	47373.35	2.848909777	143366.7145	371.1103608	117469.5209	1.220458833	0	0	0	
Aerial Lifts175	Aerial Lifts	175	0	0	0	0	13917.20529	21.38740119	6700.207485	0.07131138	0	0	0	
Aerial Lifts300	Aerial Lifts	300	0	0	0	0	825.4230609	0.70958004	225.2028293	3.665243855	0	0	0	
Aerial Lifts600	Aerial Lifts	600	0	0	0	0	586.1699998	0.23652668	75.06760976	7.808560865	0	0	0	
Bore/Drill rigs25	Bore/Drill rigs	25	221.6599108	2.3740641	0	0	9.59759141	1.510046274	0	0	0	0	0	
Bore/Drill rigs50	Bore/Drill rigs	50	682.55	2.52	270.1	2.527027027	2304.845444	5.402614802	2008.594996	1.147491665	0	0	0	
Bore/Drill rigs75	Bore/Drill rigs	75	0	0	0	0	3255.207354	3.07095992	1790.486616	1.838657097	0	0	0	
Bore/Drill rigs100	Bore/Drill rigs	100	7851.15	11.52	1230.05	6.382789318	10787.42229	13.25062367	5061.72327	2.131175829	0	0	0	
Bore/Drill rigs175	Bore/Drill rigs	175	2748.45	2.81	313.9	8.755813953	16950.86427	13.19375404	4339.220932	3.906430332	0	0	0	
Bore/Drill rigs300	Bore/Drill rigs	300	0	0	0	0	24181.9479	13.19375404	4480.966554	5.396591919	0	0	0	
Bore/Drill rigs600	Bore/Drill rigs	600	0	0	0	0	34608.96601	10.4017423	3488.89736	9.93884941	0	0	0	
Bore/Drill rigs750	Bore/Drill rigs	750	0	0	0	0	27915.97924	2.843481474	1687.173237	16.54600644	0	0	0	
Bore/Drill rigs9999	Bore/Drill rigs	9999	0	0	0	0	12551.18677	0.341217777	259.9461359	48.2837982	0	0	0	
Cement and Mortar Mixers25	Cement and Mortar Mixers	25	121.7930469	1.657945786	0	0	2.738078555	1.060478139	0	0	0	0	0	
Cement and Mortar Mixers50	Cement and Mortar Mixers	50	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers75	Cement and Mortar Mixers	75	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers100	Cement and Mortar Mixers	100	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers175	Cement and Mortar Mixers	175	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers300	Cement and Mortar Mixers	300	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers600	Cement and Mortar Mixers	600	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers750	Cement and Mortar Mixers	750	0	0	0	0	0	0	0	0	0	0	0	
Cement and Mortar Mixers9999	Cement and Mortar Mixers	9999	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws25	Concrete/Industrial Saws	25	4001.038064	17.9841651	0	0	1.863506925	0.389731389	0	0	0	0	0	
Concrete/Industrial Saws50	Concrete/Industrial Saws	50	15771.65	9.33	5701.3	2.766325224	5018.75	6.24	3624.45	1.38460285	0	0	0	
Concrete/Industrial Saws75	Concrete/Industrial Saws	75	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws100	Concrete/Industrial Saws	100	15388.4	5.33	3266.75	4.710614525	0	0	0	0	0	0	0	
Concrete/Industrial Saws175	Concrete/Industrial Saws	175	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws300	Concrete/Industrial Saws	300	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws600	Concrete/Industrial Saws	600	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws750	Concrete/Industrial Saws	750	0	0	0	0	0	0	0	0	0	0	0	
Concrete/Industrial Saws9999	Concrete/Industrial Saws	9999	0	0	0	0	0	0	0	0	0	0	0	
Cranes25	Cranes	25	0	0	0	0	44.38006366	0.214270671	107.2044791	0.413975834	0	0	0	
Cranes50	Cranes	50	2336	2.81	1175.3	1.9875764	718.594798	2.85553822	1042.814953	0.680991345	0	0	0	
Cranes75	Cranes	75	0	0	0	0	354.4738531	0.9999297	347.254407	1.0247274	0	0	0	
Cranes100	Cranes	100	7825.6	5.7	2365.2	3.308641975	16247.90424	26.42671507	12438.61699	1.306248484	0	0	0	
Cranes175	Cranes	175	503.7	0.16	83.95	€	49681.50439	47.92520671	22738.59837	2.184897397	0	0	0	
Cranes300	Cranes	300	0	0	0	0	84337.69568	52.28204368	25805.08961	3.268258199	0	0	0	
Cranes600	Cranes	600	0	0	0	0	150927.9552	53.63999126	27682.36104	5.452114484	0	0	0	
Cranes750	Cranes	750	0	0	0	0	3091.807486	0.142135469	328.771761	9.402151229	0	0	0	
Cranes9999	Cranes	9999	0	0	0	0	8264.691959	1.142776911	591.2437806	13.97848439	0	0	0	
Crawler Tractors25	Crawler Tractors	25	0	0	0	0	0	0	0	0	0	0	0	
Crawler Tractors50	Crawler Tractors	50	0	0	0	0	2334.940538	6.339034298	2259.398082	1.03343477	0	0	0	
Crawler Tractors75	Crawler Tractors	75	0	0	0	0	1574.441992	3.28627883	931.1996487	1.68472534	0	0	0	
Crawler Tractors100	Crawler Tractors	100	0	0	0	0	100651.9365	105.291397	51807.09673	1.84262133	0	0	0	
Crawler Tractors175	Crawler Tractors	175	0	0	0	0	112779.2202	71.88464894	34126.49379	3.304740911	0	0	0	
Crawler Tractors300	Crawler Tractors	300	0	0	0	0	114898.9958	53.37466879	25413.97404	4.521095192	0	0	0	
Crawler Tractors600	Crawler Tractors	600	0	0	0	0	414209.0345	99.20588676	48566.20536	8.528792016	0	0	0	
Crawler Tractors750	Crawler Tractors	750	0	0	0	0	4206.810174	0.63392943	317.8872946	13.54821572	0	0	0	
Crawler Tractors9999	Crawler Tractors	9999	0	0	0	0	23909.42877	1.901710289	1099.483477	21.74605555	0	0	0	
Crushing/Proc. Equipment25	Crushing/Proc. Equipment	25	40.60896294	0.9167382	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment50	Crushing/Proc. Equipment	50	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment75	Crushing/Proc. Equipment	75	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment100	Crushing/Proc. Equipment	100	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment175	Crushing/Proc. Equipment	175	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment300	Crushing/Proc. Equipment	300	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment600	Crushing/Proc. Equipment	600	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment750	Crushing/Proc. Equipment	750	0	0	0	0	0	0	0	0	0	0	0	
Crushing/Proc. Equipment9999	Crushing/Proc. Equipment	9999	0	0	0	0	0	0	0	0	0	0	0	
Dumpers/Tenders25	Dumpers/Tenders	25	14526.78987	284.958613	41785.2	0.347653951	1.354182734	0.547352556	0	0	0	0	0	
Dumpers/Tenders100	Dumpers/Tenders	100	649.7	2.06	262.8	2.472222222	0	0	0	0	0	0	0	
Excavators25	Excavators	25	0	0	0	0	17.98463922	0.922480988	15.15693794	1.18656152	0	0	0	
Excavators50	Excavators	50	0	0	0	0	9232.26315	155.1087362	11840.54561	0.7801466	0	0	0	
Excavators75	Excavators	75	0	0	0	0	502.747652	1.0797907	373.0122426	1.347804695	0	0	0	
Excavators100	Excavators	100	0	0	0	0	102090.8503	110.7738224	75216.68343	1.599257569	0	0	0	
Excavators175	Excavators	175	0	0	0	0	255052.8666	142.9769921	88387.00511	2.885677333	0	0	0	
Excavators300	Excavators	300	0	0	0	0	32535.2984	133.223174	75188.71888	4.325985881	0	0	0	
Excavators600	Excavators	600	0	0	0	0	574838.7257	28.893713	86368.4615	6.655287854	0	0	0	
Excavators750	Excavators	750	0	0	0	0	10485.2662	1.4608933	859.625735	12.19747824	0	0	0	
Excavators9999	Excavators	9999	0	0	0	0	16057.72271	0.9527565	675.4689391	23.7270334	0	0	0	
Forklifts25	Forklifts	25	52.9608854	0.119064178	0	0	36.99349537	0.220739771	63.9996138	0.578024422	1496.5	1.22	1525.7	0.980861244
Forklifts50	Forklifts	50	1256990.65	439.07	788970.26	1.593744071	1593744071	241.2489585	241.2489585	1987472.4	826.26	1488720.15	1.335011788	
Forklifts75	Forklifts	75	0	0	0									



Region	Calendar Year	Vehicle Category	Model Year	Horsepower B Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption Total_Activity Total_Population	Horsepower_Hours_Nhpy				
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 100 Gasoline	7.26739E-08	8.79355E-08	1.04655E-07	1.15393E-06	2.5107E-07	3.76327E-07	2.83099E-09	2.60448E-09	3.40797E-10	3.06823E-10	2.129688893	7.304082026	0.003841111	32.54899231			
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 175 Gasoline	1.000191378	1.209431E-07	1.400000E-07	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	69781.69075	2528.119433	36.47696934	2494275.145		
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 175 Diesel	0.000458818	0.00055517	0.00066088	0.00076085	0.00086127	0.00096169	0.00106211	0.00116253	0.00126295	0.00136337	0.00146379	2.55010394	8.95500873	0.000626724	68.0550098		
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 25 Gasoline	1.74007E-07	2.10548E-06	2.50596E-06	2.4182E-05	4.42874E-07	7.4287E-05	4.5008E-08	4.40740E-08	6.24835E-10	6.05668E-10	3.207917176	92.3441829	13.41429551	12747.728	64.25153828		
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 25 Diesel	0.000212701	0.000262728	0.000313259	0.000363790	0.000414321	0.000464852	0.000515383	0.000565914	0.000616445	0.000666976	0.000717507	0.000768038	4.21848E-07	5.60267032	4.438268054	5400.7032	
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 300 Diesel	0.000180519	0.000218428	0.000256337	0.000294246	0.000332155	0.000370064	0.000407973	0.000445882	0.000483791	0.000521700	0.000559609	0.000597518	2.24793238	1530.39356	3.199446599	8937.7576	
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 50 Gasoline	3.40427E-07	4.90215E-07	1.1946E-05	9.0031E-07	9.0031E-07	2.3282E-08	2.1462E-08	2.1462E-08	2.1462E-08	2.1462E-08	2.1462E-08	10.05045182	53.7345098	0.037714177	268.2197036		
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 50 Diesel	0.000267444	0.000321319	0.000376194	0.000431069	0.000485944	0.000540819	0.000595694	0.000650569	0.000705444	0.000760319	0.000815194	0.000870069	36.7863954	2993.54878	4.48897247	13184.6727	
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 600 Diesel	9.29090E-05	0.0001241	0.00013777	0.00015154	0.00016531	0.00017908	0.00019285	0.00020662	0.00022039	0.00023416	0.00024793	0.00026170	11930.81772	1066.18181	1.019154615	47400.1519	
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 750 Diesel	1.17021E-05	5.45066E-06	1.05262E-05	1.26284E-05	1.47306E-05	1.68328E-05	1.89350E-05	2.10372E-05	2.31394E-05	2.52416E-05	2.73438E-05	2.94460E-05	0.74147516	14.60813683	0.003112805	15.93937073	
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 75 Diesel	0.001456235	0.001720268	0.002079707	0.002545051	0.003215385	1.189534584	0.000746691	0.000606956	1.07975E-05	6.98376E-06	38551.59984	2673.138153	35.07784842	137967.745			
Orange (SC)	2029	Agricultural - Agricultural Tractors	Aggregate 750 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 100 Gasoline	1.07976E-05	1.29652E-05	1.51328E-05	0.000032424	4.58108E-05	0.04512678	3.3959E-06	3.12422E-06	4.111E-07	3.8052E-07	1463.028035	52.6448042	1.85930595	4685.17108			
Orange (SC)	2029	Agricultural - ATVs	Aggregate 175 Gasoline	1.27588E-05	1.5357E-05	1.8698E-05	0.000045459	6.4542E-05	0.065780049	4.94836E-06	4.55249E-06	9.1121E-07	8.631E-07	2131.864136	29.6278404	5.615030031	6827.50899			
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Gasoline	3.4121E-08	4.1287E-08	4.9137E-08	8.76183E-07	2.61277E-07	0.000100127	1.10719E-08	1.01861E-08	1.45844E-09	1.30533E-09	5.188954759	71.1553877	0.00282027	247.838226			
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.001159417	0.001402894	0.001696556	0.014731795	0.000666755	0.061263815	3.8877E-05	4.95767E-05	5.26888E-07	5.02437E-07	11927.21606	270.5866446	11.05939014	6396.41777			
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	2.16976E-05	2.62451E-05	3.12445E-05	0.000237892	0.000231487	0.0003493108	8.76638E-06	8.06548E-06	3.1944E-07	2.97531E-07	1182.704334	29.6312702	3.518940014	5078.74008			
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	0.000302678
Orange (SC)	2029	Agricultural - ATVs	Aggregate 25 Diesel	0.000142678	0.000152678	0.000162678	0.000172678	0.000182678	0.000192678	0.000202678	0.000212678	0.000222678	0.000232678	0.000242678	0.000252678	0.000262678	0.000272678	0.000282678	0.000292678	



Orange (SC)	2029 Airport Ground Support - Misc - Maint. Truck	Aggregate	175 Gasoline	0.00016409	0.000015093	0.000018051	0.012525498	0.001345093	0.435766256	3.1367176	2.3895505	4.345788E-06	6.122333E-06	17476.2	2956.5	6.36	384345
Orange (SC)	2029 Airport Ground Support - Misc - Other	Aggregate	50 Gasoline	0.000130316	0.000118864	0.000143004	0.010476176	0.000272023	1.015340297	7.2620266	5.485535E-06	1.280431E-06	1.620209E-06	4624.55	1784.85	9.73	89242.5
Orange (SC)	2029 Airport Ground Support - Misc - Passenger Stand	Aggregate	50 Nit Gas	0	0	1.988265E-05	0.001313217	0.000041952	0.952274048	0.14161103	1.012696E-05	7.651454E-06	1.25021E-06	0	0	0	93.41
Orange (SC)	2029 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Nit Gas	4.83336E-05	0.031716E-05	0	0	0.000000000	0.000000000	0.000000000	0	0	0	0	0	0	4.48
Orange (SC)	2029 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Nit Gas	0	0	7.91747E-09	9.47783E-06	9.39502E-07	0.000000000	0	0	0	0	0	0	0	0.17
Orange (SC)	2029 Airport Ground Support - Misc - Service Truck	Aggregate	300 Gasoline	0.000796869	0.00073296	0.000087606	0.052418954	0.004773307	1.169185315	9.362848E-05	7.074155E-05	1.2974E-05	1.79527E-05	51246	15939.55	1.85	286919
Orange (SC)	2029 Airport Ground Support - Misc - Sweep	Aggregate	300 Nit Gas	0	0	1.07486E-05	0.006289218	0.000531837	0.172704533	0	0	0	0	0	0	0	18.95
Orange (SC)	2029 Airport Ground Support - Misc - Sweep	Aggregate	100 Gasoline	5.82995E-05	5.36239E-05	0.000238938	0.000422544	3.201814E-05	0.009948085	6.93465E-07	5.23951E-07	8.11219E-06	1.38098E-07	367	160.6	0	0.4
Orange (SC)	2029 Airport Ground Support - Misc - Water Truck	Aggregate	50 Nit Gas	0	0	8.71373E-08	2.53183E-05	6.2998E-06	0.002108281	0	0	0	0	0	0	0	0
Orange (SC)	2029 Airport Ground Support - Misc - Water Truck	Aggregate	175 Gasoline	1.12919E-05	1.18829E-05	1.42666E-05	0.001201566	0.000110967	0.035281961	2.52934E-06	1.91106E-06	4.9485E-07	1412.55	514.65	1.65	7197.5	
Orange (SC)	2029 Airport Ground Support - Other	Aggregate	100 Diesel	2.14145E-05	2.92148E-05	3.47681E-05	0.00083882	0.000313173	0.097962917	9.9786E-06	9.18032E-06	9.04991E-07	7.9956E-07	3178.298971	2424.71068	4.511706467	183204.169
Orange (SC)	2029 Airport Ground Support - Other	Aggregate	175 Diesel	9.80183E-05	0.000118602	0.00011146	0.002371559	0.000897376	0.39340418	3.57222E-05	3.28736E-05	3.63590E-06	3.21099E-06	13761.49667	4834.474735	9.757304012	375804.462
Orange (SC)	2029 Airport Ground Support - Other	Aggregate	25 Diesel	7.92091E-07	9.55441E-07	1.4405E-06	1.31515E-05	8.70247E-06	0.00188156	1.44545E-08	4.08989E-08	1.48444E-07	1.31256E-08	52.7488538	108.298889	0.124843165	205.224723
Orange (SC)	2029 Airport Ground Support - Other	Aggregate	300 Diesel	9.39501E-05	0.00013368	0.000135288	0.000814539	0.000875689	0.379393323	3.60678E-05	3.13824E-05	3.45444E-06	3.05204E-06	12132.0466	3103.130913	6.318733173	69923.3883
Orange (SC)	2029 Airport Ground Support - Other	Aggregate	50 Diesel	0.000102609	0.000124157	0.000147758	0.001352826	0.00111598	0.192446326	2.84623E-05	2.61853E-05	1.77618E-06	1.57072E-06	6243.709116	9933.170237	19.14201669	323738.0896
Orange (SC)	2029 Airport Ground Support - Other	Aggregate	600 Diesel	6.31522E-05	7.64142E-05	9.09392E-05	0.000567589	0.000561032	0.23322249	2.35074E-05	2.12668E-05	2.15644E-06	1.90377E-06	7567.61328	3214.725286	2.470689639	4362.174253
Orange (SC)	2029 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	3.41237E-05	4.12096E-05	4.91323E-05	0.000079241	0.000459558	0.103888732	1.70711E-05	1.57054E-05	3.31602E-07	8.31602E-07	3305.66789	2911.39344	0.650660828	19055.4113
Orange (SC)	2029 Airport Ground Support - Passenger Stand	Aggregate	175 Diesel	1.1307E-07	8.8221E-07	5.75291E-06	9.45611E-06	0.000091959	0.000091959	5.71628E-07	4.87959E-09	4.87959E-09	4.87959E-09	29.8210893	13.2582803	0.000295933	1458.140291
Orange (SC)	2029 Airport Ground Support - Passenger Stand	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Airport Ground Support - Passenger Stand	Aggregate	300 Diesel	1.99997E-07	2.14577E-07	2.8771E-07	1.3292E-06	4.52368E-06	0.000766579	9.79327E-08	8.96013E-08	7.08141E-09	6.25671E-09	24.8708088	4.506979082	0.116599147	1228.1538
Orange (SC)	2029 Airport Ground Support - Passenger Stand	Aggregate	50 Diesel	1.19521E-06	1.44378E-06	1.74322E-06	1.18145E-05	1.16666E-05	0.001935453	6.39542E-07	5.88379E-07	1.80248E-08	1.59438E-08	63.3776351	64.82096385	1.107623496	2802.413081
Orange (SC)	2029 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	6.02349E-08	7.83557E-08	8.693948E-08	1.51023E-06	4.2591E-07	0.000260059	1.40111E-08	1.28061E-08	7.9959E-09	7.06023E-09	23.8025244	4.506979082	0.116599147	1228.1538
Orange (SC)	2029 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	2.42704E-07	2.95672E-07	3.49946E-07	1.29705E-05	6.55928E-06	0.000228006	7.30547E-08	3.49094E-08	2.05917E-08	1.81847E-08	72.2806073	63.0977014	0.632278257	3569.527433
Orange (SC)	2029 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	100 Diesel	0.0000361	0.0000346	0.0000319	0.000169437	0.000918655	0.127248585	0.0000419	0.0000401	0	0	4129.480957	1884.309448	1.583450313	71786.61739
Orange (SC)	2029 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	50 Diesel	0.0000066	0.0000062	0.0000077	0.000040949	0.001143211	0.011620299	0.0000035	0.00000512	0	0	5239.774902	5652.928344	4.756328209	87484.7168
Orange (SC)	2029 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	75 Diesel	0.000079727	0.0000777	0.000076028	0.000067281	0.000066228	0.000077777	0.000077777	0.000077777	0.000077777	0.000077777	3948.106074	1884.309448	1.583450313	71786.61739
Orange (SC)	2029 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	25 Diesel	0.000272308	0.000339921	0.000393592	0.001136822	0.001072265	0.184330931	0.000131728	0.000126078	0	0	5332.555636	11062.28145	6.703054552	92409.87581
Orange (SC)	2029 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	50 Diesel	0.000172608	0.000288763	0.000248598	0.000919733	0.011014466	1.201926056	0.0007041	0.0007041	0	0	38990.90176	42036.67887	27.4161507	66971.6978
Orange (SC)	2029 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	75 Diesel	0.000937661	0.001134613	0.001350245	0.003818237	0.011872039	1.4032214	0.000703161	0.000672251	0	0	45520.99324	28761.96327	14.729486	80522.3169
Orange (SC)	2029 Commercial Harbor Craft - AE - Crew/Supply	Aggregate	50 Diesel	0.000154686	0.00018717	0.000222748	0.000912325	0.003076006	0.4399744	0.000134995	0.000027005	0	0	14227.37305	1578.02637	7.213346604	23881.4844
Orange (SC)	2029 Commercial Harbor Craft - AE - Excursion	Aggregate	100 Diesel	0.000234004	0.000383838	0.000479225	0.002261264	0.000411237	0.000411237	0.000411237	0.000411237	0.000411237	0.000411237	2324.1035	1804.53719	28.6334501	4649.8478
Orange (SC)	2029 Commercial Harbor Craft - AE - Excursion	Aggregate	25 Diesel	1.81731E-05	3.87679E-05	4.58827E-05	0.000117299	0.000308887	0.02726383	1.47485E-05	1.41435E-05	0	0	738.446924	315.15038	5.1024261	11761.97379
Orange (SC)	2029 Commercial Harbor Craft - AE - Excursion	Aggregate	300 Diesel	0.000812555	0.000865221	0.001174034	0.003668454	0.01254842	0.198640497	0.000519997	0.000497168	0	0	38884.3143	8115.264229	15.30729098	75159.1475
Orange (SC)	2029 Commercial Harbor Craft - AE - Excursion	Aggregate	50 Diesel	0.000325091	0.000393139	0.000468040	0.001412062	0.000300230	0.380274545	0.000170085	0.000160381	0	0	12336.24112	15538.29140	25.51232266	20755.4352
Orange (SC)	2029 Commercial Harbor Craft - AE - Excursion	Aggregate	600 Diesel	0.000318986	0.000385952	0.000459296	0.001874497	0.000654466	0.994955512	0.00070282	0.000258388	0	0	32260.41943	4151.833637	15.10245002	62426.6258
Orange (SC)	2029 Commercial Harbor Craft - AE - Excursion	Aggregate	75 Diesel	0.000091167	0.000091234	0.000091514	0.00069074	0.000269897	0.688158453	0.000455338	0.000455338	0.000455338	0.000455338	2224.1035	1804.53719	28.6334501	4649.8478
Orange (SC)	2029 Commercial Harbor Craft - AE - Ferry-Catamaran	Aggregate	175 Diesel	6.63239E-05	0.0000802	0.000095413	0.000501548	0.001537304	0.248569023	6.50395E-05	0.000061177	0	0	8003.4032	3548.810304	2.00000003	15594.0649
Orange (SC)	2029 Commercial Harbor Craft - AE - Research Boat	Aggregate	50 Diesel	0.00000492	0.00000595	0.00000708	0.0000459	0.0000962	0.012758453	0.0000006	0.000000484	0	0	413.8887024	421.2630615	0.40625	7196.015625
Orange (SC)	2029 Commercial Harbor Craft - AE - Research Boat	Aggregate	75 Diesel	0.0000044	0.00000416	0.00000495	0.000122818	0.000115454	0.017992692	0.0000021	0.0000021	0	0	585.889209	421.2630615	0.40625	10148.22754
Orange (SC)	2029 Commercial Harbor Craft - AE - Work Boat	Aggregate	300 Diesel	3.24355E-05	4.09474E-05	4.91323E-05	0.000297976	0.000459558	0.010388732	1.70711E-05	1.57054E-05	3.31602E-07	8.31602E-07	3305.66789	2911.39344	0.650660828	19055.4113
Orange (SC)	2029 Commercial Harbor Craft - AE - Work Boat	Aggregate	800 Diesel	0.000202024	0.000265499	0.000317048	0.00122818	0.004984327	0.796780953	0.000209097	0.000198987	0	0	2587.85418	2200.807441	3.680823	499605.3478
Orange (SC)	2029 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	300 Diesel	0.000769694	0.000931736	0.00110835	0.003020554	0.010410116	0.92135209	0.000367137	0.000350994	0	0	29888.88338	9472.179723	9.500724005	578418.6819
Orange (SC)	2029 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	600 Diesel	0.002831159	0.003428056	0.004079739	0.012013163	0.014010206	4.705306509	0.001470201	0.001409168	0	0	152461.7963	28416.54277	28.502176051	295930.631
Orange (SC)	2029 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	800 Diesel	0.000109701	0.000131233	0.000157249	0.0004851	0.000000001	0.413415155	0.0000046	0.0000046	0	0	13415.42362	1578.02637	1.583450313	26001.3144
Orange (SC)	2029 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	175 Diesel	0.000419743	0.000512413	0.000614243	0.002361612	0.000411237	0.000411237	0.000411237	0.000411237	0.000411237	0.000411237	2324.1035	1804.53719	28.6334501	4649.8478
Orange (SC)	2029 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	300 Diesel	0.00077883	0.000942383	0.001125117	0.003521612	0.02363612	0.000411237	0.000411237	0.000411237	0.000411237	0.000411237	2324.1035	1804.53719	28.6334501	4649.8478
Orange (SC)	2029 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	600 Diesel	0.004677808	0.00660151	0.009736056	0.019588274	0.059439483	8.659236631	0.002482839	0.002482839	0.002482839	0.002482839	28095.5283	48313.11286	38.47774882	543695.843
Orange (SC)	2029 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	800 Diesel	0.007998671	0.009678688	0.01151833	0.031423339	0.09728124	6.056343016	0.002029113	0.002029113	0.002029113	0.002029113	196469.8879	20793.42121	17.22792891	380022.6163
Orange (SC)	2029 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	9999 Diesel	0.000479362	0.000591272	0.00071448	0.002261264	0.000411237	0.000411237	0.000411237	0.000411237	0.000411237	0.000411237	2324.1035	1804.53719	28.6334501	4649.8478
Orange (SC)	2029 Commercial Harbor Craft - ME - Crew/Supply	Aggregate	100 Diesel	0.000241961	0.000293979	0.000347474	0.00086545	0.001861848	0.124247903	0.000155749	0.000148896	0	0	4026.642128	3455.312693	3.666673003	7029.17335
Orange (SC)	2029 Commercial Harbor Craft - ME - Excursion	Aggregate	100 Diesel	0.001634417	0.001977594	0.00235453	0.006029095	0.041209117	0.864925641	0.00077059	0.000767811	0</					



Orange (SC)	2029 Construction and Mining - Misc - Trenchers	Aggregate	25 Gasoline	0.0023985	0.00242388	0.00264088	0.07292168	0.001546826	1.26664E-06	0.000895742	0.000676782	1.74017E-06	4959.760676	0	0	15.2232758	0		
Orange (SC)	2029 Construction and Mining - Misc - Trenchers	Aggregate	25 Diesel	0.0001252	0.000150973	0.000180437	0.000515293	0.000540033	2.20211E-06	0.000302083	2.42405E-05	1.30895E-08	1.12754E-08	14.86069111	0	0	4.498830406	0	
Orange (SC)	2029 Construction and Mining - Misc - Trenchers	Aggregate	5 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0.019576988	0	
Orange (SC)	2029 Construction and Mining - Misc - Trenchers	Aggregate	100 Diesel	0.001797076	0.001652951	0.001975773	0.156731919	0.002453007	0.97613364	6.72938E-06	5.08442E-05	1.1868E-06	1.62968E-05	465129.25	20848.8	0	51.76	625441	
Orange (SC)	2029 Construction and Mining - Off-Highway Tractors	Aggregate	100 Diesel	0.000258638	0.000312952	0.000374239	0.005496719	0.000128467	0.81048875	0.000121056	1.83097E-05	6.48551E-06	26295.40922	146866.6789	0	0	162951726	116394.564	
Orange (SC)	2029 Construction and Mining - Off-Highway Tractors	Aggregate	175 Diesel	0.000285512	0.000345469	0.000411137	0.000768611	0.001949077	1.29341935	8.88467E-06	1.81390E-05	1.05567E-05	41963.52046	11764.5823	0	0	621038484	186297.544	
Orange (SC)	2029 Construction and Mining - Off-Highway Tractors	Aggregate	25 Diesel	8.26084E-06	9.99562E-06	1.18954E-05	2.78791E-05	1.95051E-05	0.00144328	2.63448E-06	2.42372E-06	1.23906E-08	475085729	75.89763893	0	0	15.0686755	1897.44023	
Orange (SC)	2029 Construction and Mining - Off-Highway Tractors	Aggregate	300 Diesel	0.00081973	0.000312952	0.000345469	0.000768611	0.001949077	1.29341935	8.88467E-06	1.81390E-05	1.05567E-05	41963.52046	11764.5823	0	0	11.9702921	180679.088	
Orange (SC)	2029 Construction and Mining - Off-Highway Tractors	Aggregate	50 Diesel	0.00071292	0.000866714	0.001031361	0.00923266	0.007000221	1.186766371	0.000123684	0.000156575	1.09551E-05	6.98647E-06	38504.30124	40866.5772	0	0	59.2247558	152963.747
Orange (SC)	2029 Construction and Mining - Off-Highway Tractors	Aggregate	600 Diesel	0.00066551	0.000866714	0.001031361	0.00923266	0.007000221	1.186766371	0.000123684	0.000156575	1.09551E-05	6.98647E-06	38504.30124	40866.5772	0	0	19.8082139	5086218.391
Orange (SC)	2029 Construction and Mining - Off-Highway Tractors	Aggregate	75 Diesel	0.00026702	0.000323919	0.00038549	0.004864173	0.002954128	0.705998279	0.000118807	0.000120282	6.51919E-05	5.76216E-06	22904.91489	14419.9521	0	0	22.56180792	1019132.80
Orange (SC)	2029 Construction and Mining - Off-Highway Tractors	Aggregate	750 Diesel	5.27477E-05	6.33247E-05	7.59567E-05	0.000282965	0.000403396	0.135858042	2.0801E-05	1.91369E-05	1.23344E-06	1.09027E-06	4333.071939	296.02812	0	0	14.08701821	192350.485
Orange (SC)	2029 Construction and Mining - Off-Highway Tractors	Aggregate	999 Diesel	0.00257324	0.000312952	0.000345469	0.000768611	0.001949077	1.29341935	8.88467E-06	1.81390E-05	1.05567E-05	41963.52046	11764.5823	0	0	32.72487508	194426.462	
Orange (SC)	2029 Construction and Mining - Off-Highway Trucks	Aggregate	100 Diesel	4.53363E-05	5.48537E-05	6.52804E-05	0.000774438	0.000466125	0.105887897	2.08831E-05	1.9171E-05	9.71626E-07	8.64243E-07	3435.416206	1970.318915	0	0	1.428028089	17408.2312
Orange (SC)	2029 Construction and Mining - Off-Highway Trucks	Aggregate	175 Diesel	0.000744256	0.000900549	0.001017278	0.001721084	0.004118972	2.70926408	0.000205057	0.000188653	2.50262E-05	2.21216E-05	87899.08936	28206.4402	0	0	18.78594256	445730.452
Orange (SC)	2029 Construction and Mining - Off-Highway Trucks	Aggregate	25 Diesel	4.18294E-06	5.06136E-06	6.02344E-06	4.48991E-05	3.67633E-05	0.00241104	2.88155E-06	2.61021E-06	3.80077E-08	4.34999E-08	136.6225654	249.0126297	0	0	1.06282733	6225.31574
Orange (SC)	2029 Construction and Mining - Off-Highway Trucks	Aggregate	300 Diesel	0.01597037	0.00193242	0.00231022	0.003200221	0.001036454	5.51755E-05	0.000400408	0.000363954	5.22771E-05	4.53094E-05	180107.8828	43416.02311	0	0	12.72479204	252239.504
Orange (SC)	2029 Construction and Mining - Off-Highway Trucks	Aggregate	50 Diesel	8.15886E-05	9.88855E-05	0.000117444	0.001043846	0.00067162	0.115568339	1.22622E-05	1.18215E-05	1.01917E-06	9.02355E-07	3586.894887	5698.499919	0	0	3.35317813	164689.5072
Orange (SC)	2029 Construction and Mining - Off-Highway Trucks	Aggregate	600 Diesel	0.000468148	0.00773859	0.009227733	0.052181725	0.037168577	29.2504573	0.00132275	0.001216937	0.000220964	0.000195236	77607.8935	104215.7499	0	0	73.2109119	391836.883
Orange (SC)	2029 Construction and Mining - Off-Highway Trucks	Aggregate	75 Diesel	5.23417E-06	6.33356E-06	7.53721E-06	0.000447959	5.85656E-05	0.021499177	5.71956E-07	5.26207E-07	1.98814E-07	1.75473E-07	697.517143	515.658406	0	0	0.372574646	3573.45995
Orange (SC)	2029 Construction and Mining - Off-Highway Trucks	Aggregate	750 Diesel	0.002797989	0.000385567	0.000429105	0.021674021	0.021736693	798658011	0.00042999	0.000078718	7.73492E-05	6.51794E-05	259092.1347	19605.91029	0	0	15.39975203	19031596.72
Orange (SC)	2029 Construction and Mining - Off-Highway Trucks	Aggregate	999 Diesel	0.00257324	0.000312952	0.000345469	0.000768611	0.001949077	1.29341935	8.88467E-06	1.81390E-05	1.05567E-05	41963.52046	11764.5823	0	0	12.85135843	27443.251	
Orange (SC)	2029 Construction and Mining - Other	Aggregate	100 Diesel	0.000778846	0.000891903	0.001049538	0.021868207	0.008691843	1.941234631	0.00020499	0.000309991	1.79258E-05	1.58441E-05	62981.21096	93801.9323	0	0	3.75210213	293969.6507
Orange (SC)	2029 Construction and Mining - Other	Aggregate	175 Diesel	0.00036254	0.000522057	0.000680398	0.002370586	1.098348906	0.000185241	0.000170422	0.00014394E-05	9.68458E-06	36334.72064	10929.94443	0	0	1.662697564	161269.764	
Orange (SC)	2029 Construction and Mining - Other	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Construction and Mining - Other	Aggregate	300 Diesel	0.000441411	0.005011241	0.005057967	0.003432827	0.004113541	1.429231631	0.000182828	0.000168211	1.31030E-06	4.56491E-06	4670.88331	9638.97668	0	0	23.11525556	215317.741
Orange (SC)	2029 Construction and Mining - Other	Aggregate	50 Diesel	0.000487373	0.000589721	0.000701817	0.004789149	0.003980377	0.64287239	0.000162582	0.000149676	5.92891E-06	5.24091E-06	20856.79131	22810.39254	0	0	45.9162131	873101.5916
Orange (SC)	2029 Construction and Mining - Other	Aggregate	600 Diesel	0.001293263	0.001563759	0.001861002	0.01346628	0.01183551	5.72471451	0.000463142	0.000426991	2.58856E-05	4.67207E-05	18571.6913	22810.39254	0	0	48.20265764	8612309.676
Orange (SC)	2029 Construction and Mining - Other	Aggregate	75 Diesel	0.000145311	0.000173648	0.000206656	0.000663339	0.000102802	0.000373206	0.000117141	0.000120282	6.95846E-07	5.77311E-07	2294.844719	1484.02173	0	0	5.61845112	106340.1899
Orange (SC)	2029 Construction and Mining - Other	Aggregate	750 Diesel	0.000193229	0.000233807	0.00027845	0.001944986	0.001821965	0.935786748	6.41443E-05	5.9011E-05	8.64402E-06	7.63777E-06	30360.57045	2291.42836	0	0	4.325879532	1416164.011
Orange (SC)	2029 Construction and Mining - Pavers	Aggregate	999 Diesel	0.00029732	0.000312952	0.000345469	0.000768611	0.001949077	1.29341935	8.88467E-06	1.81390E-05	1.05567E-05	41963.52046	11764.5823	0	0	1.714178791	104383.04	
Orange (SC)	2029 Construction and Mining - Pavers	Aggregate	100 Diesel	0.00020762	0.000251283	0.000299047	0.004113794	0.002690793	0.630407683	0.000117945	0.000105959	5.8222E-06	5.1543E-06	20452.88299	11821.43275	0	0	29.1955355	956525.533
Orange (SC)	2029 Construction and Mining - Pavers	Aggregate	175 Diesel	0.000250439	0.000303031	0.000360632	0.000514385	0.002319102	1.03972925	0.000152385	0.000143885	8.48613E-06	3.7372.87044	9935.31973	24.6701369	0	0	15.68686.43	156866.43
Orange (SC)	2029 Construction and Mining - Pavers	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Construction and Mining - Pavers	Aggregate	300 Diesel	0.000151252	0.000151454	0.00018922	0.01529804	0.01074551	8.00023282	3.79901E-05	3.45829E-05	7.39285E-06	6.52967E-06	2595.84056	2462.315162	0	0	11.65323884	120642.692
Orange (SC)	2029 Construction and Mining - Pavers	Aggregate	50 Diesel	8.85846E-05	0.0010719	0.00127865	0.000651049	0.000523944	0.000727338	0.000621944	2.1571E-07	4.45232E-07	2.5613168	2562.746699	0	0	7.483230661	106490.3198	
Orange (SC)	2029 Construction and Mining - Pavers	Aggregate	600 Diesel	2.52032E-05	3.40995E-05	3.62926E-05	0.000301086	0.000231973	0.16136174	7.0148E-06	7.08536E-06	1.49125E-06	1.31713E-06	5235.671132	602.163444	0	0	1.687421362	24502.9598
Orange (SC)	2029 Construction and Mining - Pavers	Aggregate	75 Diesel	8.22866E-05	9.95451E-05	0.00018467	0.000849993	0.000871325	0.162972435	6.25499E-05	5.75459E-05	1.17146E-06	1.03633E-06	4119.480819	2645.073167	0	0	6.640407595	192173.1827
Orange (SC)	2029 Construction and Mining - Paving Equipment	Aggregate	999 Diesel	3.74403E-06	4.53027E-06	5.39144E-06	5.65644E-05	1.54641E-05	0.000488887	5.5457E-07	5.10212E-07	2.84010E-07	2.4852E-07	987.880007	61.23634852	0	0	1.023970511	45927.28906
Orange (SC)	2029 Construction and Mining - Paving Equipment	Aggregate	100 Diesel	0.000107038	0.000129242	0.000160212	0.00200221	0.001036454	5.51755E-05	0.000400408	0.000363954	5.22771E-05	4.53094E-05	180107.8828	43416.02311	0	0	7.978710314	37871.0314
Orange (SC)	2029 Construction and Mining - Paving Equipment	Aggregate	175 Diesel	0.000114226	0.000138214	0.000164486	0.002498877	0.001017678	0.412911588	5.45674E-05	5.02832E-05	3.96399E-06	3.50241E-06	19322.28688	5161.870599	0	0	10.7680898	758265.055
Orange (SC)	2029 Construction and Mining - Paving Equipment	Aggregate	25 Diesel	1.02237E-06	1.27307E-06	1.54362E-06	1.25927E-06	0.000232412	0.000232412	3.6013E-07	3.3132E-07	2.1181E-09	1.86992E-09	7.54036538	14.76761057	0	0	0.061825414	369.1902653
Orange (SC)	2029 Construction and Mining - Paving Equipment	Aggregate	300 Diesel	6.77388E-05	8.19578E-05	9.73666E-05	0.000588823	0.000263356	0.276240046	2.67096E-05	2.39907E-05	2.55194E-06	2.25463E-06	8962.304133	2150.828842	0	0	4.455761296	4871.74073
Orange (SC)	2029 Construction and Mining - Paving Equipment	Aggregate	50 Diesel	6.04578E-05	7.13157E-05	8.7039E-05	0.000704599	0.000290941	0.007892395	2.04688E-05	1.88311E-05	4.01048E-07	3.79825E-07	3179.09109	4892.232928	0	0	9.007179313	155476.8684
Orange (SC)	2029 Construction and Mining - Paving Equipment	Aggregate	600 Diesel	4.88971E-05	5.91656E-05	7.13157E-05	0.000704599	0.000290941	0.007892395	2.04688E-05	1.88311E-05	4.01048E-07	3.79825E-07	3179.09109	4892.232928	0	0	3.042176829	5433.676729
Orange (SC)	2029 Construction and Mining - Paving Equipment	Aggregate	75 Diesel	1.56012E-05	1.87377E-05	2.24657E-05	0.000159015	0.000173311	0.127391E-05	1.17293E-05	1.26390E-05	1.68467E-07	1.49135E-07	592.818527	447.8379029	0	0	1.299597045	23157.2104
Orange (SC)	2029 Construction and Mining - Paving Equipment	Aggregate	750 Diesel	1.09798E-05	1.38255E-05	1.68109E-05	0.00011888	0.0001267E-05	0.58882225	1.28277E-06	1.18015E-06	5.44066E-07	4.54091E-07	1910.369398	163.406311	0	0	0.8	







Orange (SC)	2029 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	500 Gasoline	0.000298789	0.000301776	0.000328799	0.000354405	0.000324145	0.032747156	3.41766E-06	2.58224E-06	3.74869E-07	5.17458E-07	1467.998073	0	1.646434439	0
Orange (SC)	2029 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	750 Gasoline	0.001209403	0.001221497	0.001330875	0.005753717	0.000572609	0.061400918	6.40811E-06	4.84169E-06	7.08476E-07	9.77959E-07	2783.680468	0	1.646434439	0
Orange (SC)	2029 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	120 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	15 Gasoline	0.000159738	0.000161335	0.000175782	0.000198936	7.47235E-05	0.014928462	1.20046E-06	9.07181E-07	2.38002E-07	3.2853E-07	694.1837368	0	55.68971317	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	175 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	25 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	250 Gasoline	0.002174204	0.002195944	0.002392579	0.01852646	0.001901842	0.206707064	2.0633E-05	1.55894E-05	2.37082E-06	3.2726E-06	9078.500551	0	43.07256759	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	50 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	50 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	500 Gasoline	0.023101153	0.023332165	0.025421411	0.270442559	0.008932517	3.195021743	0.000333449	0.000251929	3.54381E-05	4.89178E-05	138024.264	0	464.0614671	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	750 Gasoline	9.52412E-05	9.61936E-05	0.00014807	0.00157469	3.25695E-05	0.024597967	2.56717E-06	1.93964E-06	2.60474E-07	3.59551E-07	1022.299614	0	2.143645129	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	120 Gasoline	0.004030525	0.004346561	0.004735767	0.014537985	0.00024282	0.051570055	0.000205938	0.000154918	8.62524E-07	1.1906E-06	3335.583895	0	33.98191694	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	15 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	175 Gasoline	0.001031057	0.001041368	0.001134616	0.009547112	0.000398966	0.050342779	2.2262E-05	1.68202E-05	6.61295E-07	9.12832E-07	2571.415339	0	20.39923607	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	25 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	250 Gasoline	0.003887651	0.003926528	0.004278123	0.03888455	0.001359664	0.255007325	0.000347999	0.000262933	3.13094E-06	4.32186E-06	12267.10513	0	81.98183469	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	500 Gasoline	0.002951153	0.002982967	0.003247776	0.007043467	8.31272E-05	0.022928959	0.00014193	0.000101725	4.40377E-06	6.1161E-06	1652.103446	0	34.3009602	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	500 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	750 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	120 Gasoline	0.071706687	0.072423755	0.078908834	0.305215555	0.011316678	1.627651121	0.006189013	0.004671444	2.27655E-05	3.14248E-05	87928.42889	0	554.5849368	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	15 Gasoline	0.010602391	0.010708415	0.011667284	0.04819988	0.001157574	0.162469167	0.000524962	0.000396638	3.09755E-06	4.27577E-06	10265.55048	0	510.315203	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	175 Gasoline	0.03482827	0.035173076	0.038322597	0.185874438	0.006741071	0.935511773	0.00422744	0.003194065	1.27010E-05	1.75447E-05	49579.43583	0	600.3013125	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	25 Gasoline	0.012226809	0.012349077	0.013454857	0.037162783	0.001330502	0.151691511	0.000721703	0.000545287	2.60161E-06	3.59119E-06	9427.070018	0	217.7230503	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	250 Gasoline	0.033628725	0.033965011	0.037006706	0.189237979	0.011190245	1.137898985	0.000838378	0.000673411	1.48146E-06	2.04496E-06	57901.02841	0	143.81956698	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	50 Gasoline	0.029614707	0.029910853	0.032589178	0.098982532	0.003961847	0.46802711	0.002276583	0.001720085	7.21719E-06	9.96239E-06	27111.81225	0	333.8684519	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	50 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	500 Gasoline	0.016483915	0.017101235	0.0185339	0.231980568	0.007785021	0.952284268	0.002044040	0.001544421	1.30687E-05	1.80397E-05	51306.64767	0	102.5053475	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	750 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	120 Gasoline	6.10147E-07	6.16248E-07	6.71429E-07	5.21418E-06	3.01969E-07	0.000100772	9.2088E-09	6.95776E-09	1.10078E-09	1.51948E-09	4.143880624	0	0.057460107	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	15 Gasoline	0.000376335	0.000380098	0.000414133	0.006095402	0.000385019	0.047149439	7.08113E-06	5.35018E-06	7.62486E-07	1.05251E-06	2164.798885	0	224.9021835	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	175 Gasoline	0.002818562	0.002846747	0.003016566	0.032057411	0.008120083	0.553957034	5.57292E-05	4.21065E-05	5.99425E-06	8.27429E-06	22907.05468	0	200.6795499	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	25 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	250 Gasoline	0.015468569	0.015623255	0.017022218	0.190649137	0.013959672	1.63374821	0.000163078	0.000123214	1.92607E-05	2.6587E-05	74122.25254	0	469.8317409	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	500 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	750 Gasoline	0.020442996	0.020647426	0.02249627	0.149524505	0.007534625	3.36197332	0.000530834	0.000265074	3.51736E-05	4.85525E-05	136804.1316	0	682.4509855	0
Orange (SC)	2029 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	750 Diesel	0.000232747	0.0002350015	0.000256044	0.004940317	0.000714488	0.121928545	1.2725E-05	9.61451E-06	0.000001301	1.79586E-06	5104.839542	0	13.5647489	0
Orange (SC)	2029 Portable Equipment - Non-Rental Compressor	Aggregate	100 Diesel	0.000202958	0.000245579	0.00029226	0.00708097	0.000680443	1.06117886	0.000204518	0.000188156	9.80054E-06	8.6612E-06	34428.77944	26449.95632	903.143804	2061271.191
Orange (SC)	2029 Portable Equipment - Non-Rental Compressor	Aggregate	175 Diesel	0.00027528	0.000333089	0.000396403	0.001315652	0.001471651	2.22610034	6.01929E-05	5.53833E-05	2.05731E-05	1.81691E-05	72223.37391	34229.35524	22.8810433	432499691
Orange (SC)	2029 Portable Equipment - Non-Rental Compressor	Aggregate	300 Diesel	0.000173574	0.000210025	0.000249947	0.002540067	0.000797388	1.335126334	3.57492E-05	3.28709E-05	1.23387E-05	1.08971E-05	43316.70353	9975.935082	78.9246021	2539262581











Orange (SC)	2030 Airport Ground Support - Misc - Maint. Truck	Aggregate	175 Gasoline	0.00016346	0.00018286	0.00018394	0.01544007	0.00135726	0.44232664	3.17249E-05	2.39699E-05	4.3961E-06	6.19393E-06	1.680E-06	2.996E-05	6.65	38954.5
Orange (SC)	2030 Airport Ground Support - Misc - Other	Aggregate	50 Gasoline	0.000130476	0.000022012	0.000141581	0.010416264	0.00027393	0.10653322	7.34433E-06	5.54905E-06	1.29525E-06	1.64183E-06	4.686E-06	1.799E-05	9.82	89972.5
Orange (SC)	2030 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Nat Gas	0	0	1.9897E-05	0.000430001	0	0.09632015	0.00000000	0	0	0	0	514.85	1887.05	
Orange (SC)	2030 Airport Ground Support - Misc - Passenger Stand	Aggregate	175 Nat Gas	4.35606E-05	4.0067E-05	0	0	0	0.78385E-09	9.58788E-06	9.38019E-07	1.02442E-05	7.74004E-06	1.26467E-06	1.99346E-06	3.65	4.54
Orange (SC)	2030 Airport Ground Support - Misc - Service Truck	Aggregate	300 Gasoline	0.000795837	0.000732011	0.00085777	0.05039327	0.00110856	1.28881078	9.47126E-05	7.15606E-05	1.31243E-05	1.81586E-05	5.18335E-05	1.6133	19.16	2030.940
Orange (SC)	2030 Airport Ground Support - Misc - Sweeper	Aggregate	300 Nat Gas	0	0	1.90988E-05	0.006373489	0.000538558	0.179256375	0	0	0	0	0	981.845	2445.5	
Orange (SC)	2030 Airport Ground Support - Misc - Sweeper	Aggregate	125 Gasoline	5.74263E-05	5.28207E-05	0.00083838	0.054261236	0.000428613	3.21946E-05	1.71133E-05	1.57442E-05	3.80667E-06	1.43212E-07	0	0	156.95	0.44
Orange (SC)	2030 Airport Ground Support - Misc - Water Truck	Aggregate	50 Nat Gas	0	0	8.80333E-08	2.56312E-05	6.58795E-06	0.002123693	0	0	0	0	0	98.55	51.1	2299.5
Orange (SC)	2030 Airport Ground Support - Misc - Water Truck	Aggregate	175 Gasoline	1.28878E-05	1.18274E-05	1.41502E-05	0.00212181	0.00110734	0.035690488	2.55863E-06	1.93319E-06	3.54548E-07	4.98866E-07	1.4235	5.18	1.67	77745
Orange (SC)	2030 Airport Ground Support - Other	Aggregate	100 Diesel	2.27655E-05	2.75463E-05	3.27823E-05	0.00064347	0.00031034	0.099168236	8.02979E-06	7.38741E-06	9.16177E-07	8.03998E-07	3217.404207	2270.30402	4.547185235	18548.2812
Orange (SC)	2030 Airport Ground Support - Other	Aggregate	175 Diesel	9.71650E-05	0.00117564	0.000139911	0.000852815	0.39818001	3.57521E-05	3.28919E-05	3.67846E-06	2.42499E-06	1.291815139	4893.95727	8.65223487	74465.2112	4572.59928
Orange (SC)	2030 Airport Ground Support - Other	Aggregate	25 Diesel	8.01762E-07	9.10312E-07	1.15452E-06	1.33131E-05	8.81395E-06	0.01627983	4.90029E-04	4.49021E-04	1.50071E-04	1.33871E-04	52.81681584	109.5403794	0.16532635	2788.509785
Orange (SC)	2030 Airport Ground Support - Other	Aggregate	300 Diesel	9.25696E-05	0.00011999	0.000133288	0.000851738	0.000833739	0.378540119	1.53214E-05	3.24957E-05	3.49701E-06	3.08959E-06	12281.31718	3141.311295	6.387712718	70729.761
Orange (SC)	2030 Airport Ground Support - Other	Aggregate	50 Diesel	9.66005E-05	0.00016887	0.000139105	0.001357527	0.000112224	0.194814152	2.53585E-05	2.33285E-05	1.79826E-06	1.59005E-06	6320.530625	9508.747313	13.27140447	32721.3066
Orange (SC)	2030 Airport Ground Support - Other	Aggregate	600 Diesel	6.39292E-05	7.75344E-05	9.20581E-05	0.006574573	0.000567934	0.321221444	2.37966E-05	2.18292E-05	2.81151E-06	1.92722E-06	7660.722912	1229.078018	0.240125297	441584.5885
Orange (SC)	2030 Airport Ground Support - Other	Aggregate	75 Diesel	3.28649E-05	3.97665E-05	4.73255E-05	0.000682854	0.000428613	0.31946E-05	1.71133E-05	1.57442E-05	9.93165E-07	4.45344E-07	3346.340407	2945.6575495	6.026313704	192804.5104
Orange (SC)	2030 Airport Ground Support - Passenger Stand	Aggregate	175 Diesel	3.87683E-07	4.66909E-07	5.58236E-07	1.66717E-06	0.000293408	0.44898E-07	4.40185E-07	8.18015E-07	5.95239E-07	1.75943E-07	30.18802023	13.4191814	0.008575397	1476.080995
Orange (SC)	2030 Airport Ground Support - Passenger Stand	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Airport Ground Support - Passenger Stand	Aggregate	300 Diesel	2.02257E-07	2.44731E-07	2.9125E-07	1.36955E-06	4.57934E-06	0.000776011	1.89319E-08	9.03707E-08	7.18854E-09	6.3337E-09	25.17881295	4.562432167	0.117508795	1243.262766
Orange (SC)	2030 Airport Ground Support - Passenger Stand	Aggregate	50 Diesel	1.20789E-06	1.41655E-06	1.73936E-06	1.09444E-05	1.28211E-05	0.00177488	6.47411E-07	5.95167E-07	1.82466E-08	1.614E-08	61.15742087	63.6185097	1.116335257	2836.893484
Orange (SC)	2030 Airport Ground Support - Passenger Stand	Aggregate	600 Diesel	1.11178E-08	7.92525E-08	8.80095E-08	1.5388E-06	4.22085E-07	0.002097682	1.41834E-06	1.320487E-08	8.09428E-09	7.14747E-09	28.41052205	4.56032167	0.117508795	1422.947895
Orange (SC)	2030 Airport Ground Support - Passenger Stand	Aggregate	75 Diesel	2.31088E-07	2.79617E-07	3.32767E-07	1.13010E-05	3.6153E-06	0.002255415	7.51070E-08	3.45988E-08	2.08455E-08	1.84048E-08	73.17444532	63.87405304	1.164523129	3613.446276
Orange (SC)	2030 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	100 Diesel	0.00030663	0.000044	0.000023	0.000170297	0.00022793	0.127248585	0.000024	0.000405	0	0	4129.480957	1884.309448	1.583450313	7178.61739
Orange (SC)	2030 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	50 Diesel	0.0000534	0.0000761	0.0000797	0.000414069	0.001145564	0.116120299	0.000054	0.000054	0	0	5239.774902	5652.928344	4.750326209	87484.7168
Orange (SC)	2030 Commercial Harbor Craft - AE - Commercial Fishing	Aggregate	75 Diesel	3.38787E-07	3.98023E-07	4.73255E-07	0.000682854	0.000428613	0.31946E-05	1.71133E-05	1.57442E-05	9.93165E-07	4.45344E-07	3346.340407	2945.6575495	6.026313704	192804.5104
Orange (SC)	2030 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	25 Diesel	0.00026851	0.000325448	0.00038701	0.00112395	0.014657693	0.000131001	0.00014664	0	0	0	5338.631561	11062.21856	6.793054055	92409.877883
Orange (SC)	2030 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	50 Diesel	0.000163372	0.0001212694	0.0002395176	0.00675454	0.010912387	1.202973045	0.0007567	0.000093753	0	0	39023.69902	42036.67844	57.2145478	669791.6768
Orange (SC)	2030 Commercial Harbor Craft - AE - Commercial Passenger Fishing	Aggregate	75 Diesel	0.000927146	0.001121398	0.001354055	0.003786124	0.0118120765	0.02129805	0.00068995	0.000662856	0	0	45511.53309	28761.93614	71.234346004	80529.23144
Orange (SC)	2030 Commercial Harbor Craft - AE - Crew/Supply	Aggregate	50 Diesel	0.000157887	0.000191043	0.000227357	0.000392944	0.000303203	0.43995744	0.000136928	0.000013903	0	0	14277.37305	1578.026717	17.137466004	23881.47844
Orange (SC)	2030 Commercial Harbor Craft - AE - Excursion	Aggregate	175 Diesel	0.000237104	0.000281798	0.000341213	0.00056113	0.004121213	0.000136928	0.000013903	0	0	0	2922.3948	1599.417326	3.466679307	4649.84784
Orange (SC)	2030 Commercial Harbor Craft - AE - Excursion	Aggregate	25 Diesel	3.15393E-05	3.81141E-05	4.54271E-05	0.000116286	0.000208066	0.022775508	1.46772E-05	1.40313E-05	0	0	738.9095384	3135.150375	5.102426095	11761.97369
Orange (SC)	2030 Commercial Harbor Craft - AE - Excursion	Aggregate	300 Diesel	0.00081025	0.000980464	0.001166828	0.003652993	0.012621416	1.198630158	0.000517746	0.00049505	0	0	38883.97881	8115.264185	15.30727901	751594.1631
Orange (SC)	2030 Commercial Harbor Craft - AE - Excursion	Aggregate	50 Diesel	0.00032802	0.000391793	0.000466308	0.001412659	0.000302694	0.380317235	0.000170781	0.000163469	0	0	12337.62599	15538.2909	20.57513209	20575.4351
Orange (SC)	2030 Commercial Harbor Craft - AE - Excursion	Aggregate	600 Diesel	0.000322264	0.000389982	0.000461449	0.01088911	0.006809972	0.998446487	0.000273949	0.000261069	0	0	32260.13289	4151.83047	5.102426095	624264.2624
Orange (SC)	2030 Commercial Harbor Craft - AE - Excursion	Aggregate	105 Diesel	0.00061416	0.000809319	0.000925202	0.00064118	0.004261934	0.688071517	0.000494794	0.00043973	0	0	22312.3948	2854.5392	28.68335003	36881.7167
Orange (SC)	2030 Commercial Harbor Craft - AE - Ferry-Catamaran	Aggregate	175 Diesel	6.60996E-05	0.00079912	9.5096E-05	0.000499502	0.001537137	0.248772872	6.45045E-05	6.16074E-05	0	0	8070.278867	3548.810406	2.00000036	15594.06469
Orange (SC)	2030 Commercial Harbor Craft - AE - Research Boat	Aggregate	50 Diesel	0.00000498	0.00000603	0.00000717	0.00000464	0.00000964	0.012758453	0.00000511	0.00000488	0	0	413.8887024	421.263026	0.40265	7196.016265
Orange (SC)	2030 Commercial Harbor Craft - AE - Research Boat	Aggregate	75 Diesel	3.4631E-05	4.11762E-05	4.92927E-05	0.00122018	0.000171437	0.017976098	2.20570E-05	2.10484E-05	0	0	581.1506705	421.263026	0.40265	7196.016265
Orange (SC)	2030 Commercial Harbor Craft - AE - Work Boat	Aggregate	50 Diesel	3.28649E-05	4.0223E-05	4.73255E-05	0.000682854	0.000428613	0.03194E-05	1.71133E-05	1.57442E-05	9.93165E-07	4.45344E-07	3346.340407	2945.6575495	6.026313704	192804.5104
Orange (SC)	2030 Commercial Harbor Craft - AE - Work Boat	Aggregate	800 Diesel	0.000222847	0.000269645	0.000320029	0.001667441	0.005016834	0.796780953	0.000212481	0.000203312	0	0	25847.85184	2200.80741	3.068023	396605.3448
Orange (SC)	2030 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	300 Diesel	0.00073665	0.000891262	0.001066093	0.002898087	0.010191643	0.921288123	0.00035073	0.000335239	0	0	29886.91059	9407.179959	9.500723609	57818.6818
Orange (SC)	2030 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	600 Diesel	0.002808217	0.003398984	0.004043887	0.010129129	0.05091851	4.70252895	0.00146217	0.001398028	0	0	152640.2329	28416.5428	28.50217001	295301.6309
Orange (SC)	2030 Commercial Harbor Craft - ME - Commercial Fishing	Aggregate	800 Diesel	0.000110525	0.000137375	0.000159156	0.000488667	0.00202484	0.413541555	0.0000464	0.000044	0	0	13415.42362	1578.026717	1.583450313	200011.3941
Orange (SC)	2030 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	175 Diesel	0.000110525	0.000137375	0.000159156	0.000488667	0.00202484	0.413541555	0.0000464	0.000044	0	0	13415.42362	1578.026717	1.583450313	200011.3941
Orange (SC)	2030 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	300 Diesel	0.000778783	0.000942383	0.001125717	0.003521225	0.023636113	0.000412323	0.000021268	0	0	0	65774.99183	15994.196665	13.406113	127345.0137
Orange (SC)	2030 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	600 Diesel	0.004061111	0.005653703	0.006625552	0.019628367	0.092948501	0.659143461	0.00244238	0.00235911	0	0	28905.6403	40933.11251	38.8777288	543695.849
Orange (SC)	2030 Commercial Harbor Craft - ME - Commercial Passenger Fishing	Aggregate	800 Diesel	0.000773106	0.000939543	0.01113688	0.030364662	0.056068289	0.40026697	0.003889933	0	0	0	18658.9823	27992.42219	17.42774978	380026.9137
Orange (SC)</																	



Orange (SC)	2030 Construction and Mining - Misc - Trenchers	Aggregate	25	Diesel	0.00242878	0.00251636	0.00072832	0.000156536	2.79778E-06	0.00090948	0.000684896	1.27578E-06	1.76105E-06	5019.25228	0	15.41484843	0		
Orange (SC)	2030 Construction and Mining - Misc - Trenchers	Aggregate	25	Diesel	0.000126651	0.000152333	0.000182602	0.000519934	0.000962265	2.22194E-06	3.32719E-06	2.44888E-05	1.32074E-08	0	0	45.39499559	0		
Orange (SC)	2030 Construction and Mining - Misc - Trenchers	Aggregate	50	Diesel	0	0	0	0	0	0	0	0	0	0	0.01917378	0			
Orange (SC)	2030 Construction and Mining - Misc - Trenchers	Aggregate	100	Diesel	0.001747228	0.00100707	0.001922718	0.156977397	0.002380544	0.97613631	6.72938E-06	5.08442E-05	1.18688E-06	1.62939E-05	46525.55	20848.8	19.83579023	111064.124	
Orange (SC)	2030 Construction and Mining - Off-Highway Tractors	Aggregate	100	Diesel	0.000240596	0.00021121	0.000346458	0.000520545	0.000286353	0.000110821	0.000119555	6.31089E-06	6.31089E-06	25086.15654	14030.51277	15.28232650	17412.9742	111064.124	
Orange (SC)	2030 Construction and Mining - Off-Highway Tractors	Aggregate	175	Diesel	0.000257348	0.000311391	0.000370581	0.00186097	0.00166888	1.20895398	8.13914E-06	7.48801E-05	9.86717E-06	39222.59706	10996.1376	15.28232650	17412.9742	111064.124	
Orange (SC)	2030 Construction and Mining - Off-Highway Tractors	Aggregate	25	Diesel	7.72127E-06	9.34274E-06	1.11188E-05	2.60144E-05	1.77638E-05	0.00138863	2.64246E-06	2.64246E-06	1.24225E-08	44.00421297	70.94024522	0.23362238	1177.50613	11.4304683	
Orange (SC)	2030 Construction and Mining - Off-Highway Tractors	Aggregate	300	Diesel	0.000196205	0.000302297	0.000381524	0.002527734	0.001447654	1.17089089	3.80422E-05	3.14348E-05	1.03179E-05	3.79814903	7611.993149	11.4304683	68859.7328	11.4304683	
Orange (SC)	2030 Construction and Mining - Off-Highway Tractors	Aggregate	50	Diesel	0.0006246	0.00077376	0.000925142	0.00867543	0.00460311	1.19278615	0.00014363	0.00012161	1.02366E-05	9.05378E-06	35989.32302	38197.3037	15.5132873	148723.945	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Tractors	Aggregate	600	Diesel	0.00065743	0.000732949	0.00087227	0.00617536	0.00038338	3.29712955	0.00011066	0.000102176	3.04654E-06	6.61071E-05	106971.7405	13105.84337	18.08557349	475042.819	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Tractors	Aggregate	75	Diesel	0.000233992	0.00028313	0.000336948	0.004232691	0.000258238	0.64420615	8.80576E-06	8.1031E-05	5.94989E-06	5.25792E-06	20900.55923	13174.96643	9.29822.1113	30481.9883	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Tractors	Aggregate	750	Diesel	4.93024E-05	5.96595E-05	7.99954E-05	0.000376047	0.000377047	0.12465544	1.94423E-05	1.78869E-05	1.15287E-06	4050.79738	276.7019023	0.404895917	17996.764	11.4304683	
Orange (SC)	2030 Construction and Mining - Off-Highway Tractors	Aggregate	999	Diesel	0.000196205	0.000302297	0.000381524	0.002527734	0.001447654	1.17089089	3.80422E-05	3.14348E-05	1.03179E-05	3.79814903	7611.993149	11.4304683	68859.7328	11.4304683	
Orange (SC)	2030 Construction and Mining - Off-Highway Trucks	Aggregate	100	Diesel	4.22302E-05	5.10985E-05	6.08114E-05	0.00173854	0.00041464	0.089871637	1.8888E-05	1.73390E-05	9.13775E-07	8.07793E-07	3211.02577	1841.62964	1.32952048	16270.6708	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Trucks	Aggregate	175	Diesel	0.000678127	0.000820534	0.000976503	0.00670264	0.003540899	2.53230386	0.00017808	0.000164227	2.39219E-05	2.06683E-05	82157.80103	26364.0592	16.8175388	416595.169	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Trucks	Aggregate	25	Diesel	2.8006E-06	3.38807E-06	4.03209E-06	4.04435E-06	3.40487E-05	0.000395988	1.12105E-05	1.12257E-06	3.63026E-07	3.2125E-08	227.689866	232.7479184	0.17341337	5818.6996	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Trucks	Aggregate	300	Diesel	0.001453505	0.00197527	0.002092808	0.01221035	0.00942021	3.90023204	0.00034309	0.00035642	4.70991E-05	1.4535E-05	16853.6231	4083.17389	15.4629282	46547.326	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Trucks	Aggregate	50	Diesel	7.62314E-05	9.224E-05	0.000109773	0.00097566	0.000623585	0.130335619	1.1507E-05	1.0584E-05	5.93102E-07	8.43411E-07	3352.610356	5326.26028	1.2144006	33952.5091	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Trucks	Aggregate	600	Diesel	0.00589099	0.00712581	0.008480303	0.04862091	0.032876157	22.35804928	0.00197076	0.00195514	0.000206535	0.000182483	725282.2859	97408.78722	68.1544131	3661002.65	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Trucks	Aggregate	75	Diesel	4.89229E-06	5.91967E-06	7.0449E-06	0.00013303	4.94837E-05	0.002094919	5.34066E-07	4.91837E-07	1.85641E-07	1.64012E-07	651.9575198	481.974206	0.34682673	32876.04167	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Trucks	Aggregate	750	Diesel	0.00216266	0.003044882	0.003623424	0.01958947	0.01796021	7.46424091	0.00072454	0.00066599	6.89331E-05	6.09221E-05	242169.0624	18235.31491	14.3530525	1223495.61	11.4304683
Orange (SC)	2030 Construction and Mining - Off-Highway Trucks	Aggregate	999	Diesel	0.00225816	0.00342925	0.00406456	0.02824205	0.01790562	12.3847184	0.00089015	0.000809738	0.00012666	0.00019241	424237.9596	12727.74988	11.61869256	2227345.61	11.4304683
Orange (SC)	2030 Construction and Mining - Other	Aggregate	100	Diesel	0.00068108	0.000808411	0.000962076	0.00128786	0.00011044	1.82513762	0.00038433	0.00035386	1.68434E-06	1.48965E-06	59214.58043	33687.31351	70.9141939	2176222.923	11.4304683
Orange (SC)	2030 Construction and Mining - Other	Aggregate	175	Diesel	0.000325291	0.000393602	0.000468419	0.00617591	0.00302089	1.02660266	0.00016515	0.00015274	9.48174E-06	8.37904E-06	33007.17427	11023.0353	5.28627895	155270.919	11.4304683
Orange (SC)	2030 Construction and Mining - Other	Aggregate	25	Diesel	0.000358809	0.000433808	0.000516645	0.00320465	0.00193056	0.00044942	0.00014942	0.00013795	0.00013795	1.23404E-06	0	0	0	21.5153806	201259.025
Orange (SC)	2030 Construction and Mining - Other	Aggregate	50	Diesel	0.000423699	0.000512676	0.000611027	0.00443512	0.00370204	0.609867853	0.00013762	0.00012640	5.54261E-06	4.9042E-06	10404.49574	2120.40041	42.7429366	814061.1057	11.4304683
Orange (SC)	2030 Construction and Mining - Other	Aggregate	600	Diesel	0.00158612	0.001401921	0.00168402	0.012581423	0.01099244	5.35038086	0.00094146	0.00036214	4.94322E-06	4.36961E-06	173587.196	51301.74542	8049780.474	43720079.3	11.4304683
Orange (SC)	2030 Construction and Mining - Other	Aggregate	75	Diesel	0.00011993	0.000135512	0.00016127	0.00052793	0.00019414	0.0541146	8.63255E-05	7.91941E-05	5.08972E-06	4.52283E-07	1797.81539	1171.672116	4.37200733	8330.72723	11.4304683
Orange (SC)	2030 Construction and Mining - Other	Aggregate	750	Diesel	0.000176947	0.000214105	0.00024803	0.00181704	0.00149610	0.8746414	9.98288E-05	5.50425E-05	8.0814E-06	7.13889E-06	2877.51477	2411.79564	4.02092575	1323664.69	11.4304683
Orange (SC)	2030 Construction and Mining - Pavers	Aggregate	999	Diesel	0.000196205	0.000302297	0.000381524	0.002527734	0.001447654	1.17089089	3.80422E-05	3.14348E-05	1.03179E-05	3.79814903	7611.993149	11.4304683	68859.7328	11.4304683	
Orange (SC)	2030 Construction and Mining - Pavers	Aggregate	100	Diesel	0.000181638	0.000219782	0.000261559	0.00383701	0.0030719	0.899231462	9.74981E-05	8.86982E-05	5.44259E-06	4.89323E-06	19116.96587	11049.29445	27.17746689	89327.1386	11.4304683
Orange (SC)	2030 Construction and Mining - Pavers	Aggregate	175	Diesel	0.000251021	0.000272372	0.000324146	0.00555327	0.00021488	0.971817449	0.000100294	9.22708E-05	8.97818E-06	9.79184E-06	31529.2468	9886.92873	22.16622268	1466224.83	11.4304683
Orange (SC)	2030 Construction and Mining - Pavers	Aggregate	25	Diesel	0.000115912	0.000140254	0.000166914	0.01428862	0.00919348	0.747767376	3.40487E-05	3.1232E-05	6.91E-06	6.10318E-06	24260.48801	5305.33417	10.84778413	42971.9088	11.4304683
Orange (SC)	2030 Construction and Mining - Pavers	Aggregate	300	Diesel	0.04735E-05	0.000115912	0.000140254	0.000166914	0.01428862	0.747767376	3.40487E-05	3.1232E-05	6.91E-06	6.10318E-06	24260.48801	5305.33417	10.84778413	42971.9088	11.4304683
Orange (SC)	2030 Construction and Mining - Pavers	Aggregate	600	Diesel	2.32563E-05	2.81401E-05	3.3489E-05	0.0028142	0.00179516	0.15085565	6.92939E-06	6.36676E-06	1.39385E-06	1.23111E-06	4893.69373	646.953336	1.38487548	229028.2216	11.4304683
Orange (SC)	2030 Construction and Mining - Pavers	Aggregate	75	Diesel	7.244E-05	8.76252E-05	0.000104314	0.00080563	0.00078801	0.118679	5.53471E-05	5.09193E-05	1.09507E-06	9.68642E-07	3850.40946	247.30399	6.23176898	179621.043	11.4304683
Orange (SC)	2030 Construction and Mining - Paving Equipment	Aggregate	750	Diesel	3.49948E-06	4.24347E-06	5.03925E-06	5.29558E-05	1.4544E-05	0.02840003	5.18345E-07	4.7688E-07	2.60227E-07	2.32287E-07	433.355388	57.2361992	0.115403129	42971.9088	11.4304683
Orange (SC)	2030 Construction and Mining - Paving Equipment	Aggregate	175	Diesel	0.000105427	0.000127566	0.00015815	0.000235658	0.000297989	0.001480128	0.0015721E-05	4.6739E-05	3.70511E-06	3.27364E-06	13012.92748	4234.713665	10.0293622	708738.3665	11.4304683
Orange (SC)	2030 Construction and Mining - Paving Equipment	Aggregate	25	Diesel	9.55857E-07	1.15624E-06	1.37605E-06	3.31127E-06	2.3644E-06	0.00021732	3.36680E-07	3.0267E-07	1.97975E-07	1.77302E-07	7.047852738	13.8003732	0.05607871	345.07993	11.4304683
Orange (SC)	2030 Construction and Mining - Paving Equipment	Aggregate	300	Diesel	6.19346E-05	7.49408E-05	8.91858E-05	0.00055063	0.00054572	0.2189929	1.87816E-05	2.01961E-05	2.3853E-06	2.10737E-06	8376.914995	2103.34371	4.147831514	45533.3914	11.4304683
Orange (SC)	2030 Construction and Mining - Paving Equipment	Aggregate	50	Diesel	15.3508E-05	1.62522E-05	1.74204E-05	0.00050429	0.00042339	0.01414255	1.60547E-05	1.47703E-05	8.43624E-07	7.46111E-07	2965.89431	478.822238	8.848499937	145321.4421	11.4304683
Orange (SC)	2030 Construction and Mining - Paving Equipment	Aggregate	600	Diesel	4.52388E-05	5.42349E-05	6.42388E-05	0.00049429	0.00041425	0.01414255	1.60547E-05	1.47703E-05	8.43624E-07	7.46111E-07	2965.89431	478.822238	8.848499937	145321.4421	11.4304683
Orange (SC)																			







Orange (SC)	2030 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	500 Gasoline	0.000290767	0.000293675	0.000319972	0.003492343	0.00031206	0.031731903	3.3117E-06	2.50218E-06	6.64137E-07	5.02643E-07	1426.056962	1.595390387	0	0
Orange (SC)	2030 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	750 Gasoline	0.001170094	0.001181799	0.001287616	0.005588754	0.000554137	0.059497319	6.20945E-06	4.69158E-06	6.86894E-07	9.48168E-07	2698.950686	1.595390387	0	0
Orange (SC)	2030 Pleasure Craft - Sailboat Auxiliary Inboard Engine	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	120 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	15 Gasoline	0.000152515	0.00015404	0.000167834	0.001897927	0.00007125	0.014250126	1.14592E-06	8.65805E-07	2.2774E-07	3.14366E-07	662.584484	53.1592289	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	175 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	25 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	250 Gasoline	0.000268144	0.000288822	0.000275866	0.017621578	0.001808834	0.196614	1.96257E-05	1.48238E-05	2.35554E-06	3.11348E-06	8635.238312	40.96956317	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	50 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	50 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	500 Gasoline	0.022880751	0.023109559	0.025178831	0.271907741	0.008812198	3.262477084	0.000340489	0.000257258	3.60914E-05	4.98195E-05	140597.3873	473.8590292	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	750 Gasoline	0.000106661	0.000101668	0.000110772	0.001669933	3.44145E-05	0.026001466	2.71365E-06	2.05031E-06	2.75333E-07	3.80061E-07	1080.598973	2.265952379	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Engines	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	120 Gasoline	0.003977017	0.004016788	0.004376466	0.014202069	0.000249686	0.051480966	0.000187626	0.000141763	4.83927E-07	1.16493E-06	3265.287021	33.82895158	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	15 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	175 Gasoline	0.001011317	0.001021431	0.001112893	0.009387857	0.000392098	0.049761852	2.15141E-05	1.62551E-05	6.52727E-07	9.01006E-07	2537.845121	20.16419688	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	25 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	250 Gasoline	0.004041122	0.004081532	0.004447007	0.040034111	0.001571476	0.267206447	0.000340348	0.000259192	3.27677E-06	4.52316E-06	12838.53019	85.90928311	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	50 Gasoline	0.002429381	0.002454559	0.002673888	0.005944371	8.00412E-06	0.020645300	0.000115733	8.74424E-06	3.84017E-06	5.30086E-07	1434.642467	30.68705938	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	50 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	500 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	750 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Inboard Jet Engines	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	120 Gasoline	0.067628456	0.068304741	0.074420991	0.303485844	0.011271774	1.637931694	0.005982565	0.00452016	2.26926E-05	3.13242E-05	87679.75509	558.4176553	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	15 Gasoline	0.009952389	0.010051913	0.010951997	0.047864396	0.001135611	0.160999528	0.000481297	0.000363647	3.03727E-06	4.19255E-06	10102.12008	498.3403536	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	175 Gasoline	0.030616272	0.033332938	0.036382352	0.185544975	0.006760042	0.921454655	0.004173142	0.003153042	1.26991E-05	1.75294E-05	49545.70383	167.1071119	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	25 Gasoline	0.011288106	0.011402087	0.012428172	0.036040338	0.001307606	0.148103059	0.0006107	0.000499476	2.51161E-06	3.46695E-06	9105.279931	21.4437983	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	250 Gasoline	0.032341803	0.033265222	0.035590116	0.187987575	0.010974894	1.131100104	0.007958620	0.006011864	1.46887E-06	2.02758E-06	5714.404000	142.93625107	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	50 Gasoline	0.027556482	0.027832047	0.030324228	0.096789492	0.003898464	0.463638329	0.002170137	0.001639659	7.0612E-06	9.74708E-06	26551.73008	329.4512089	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	50 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	500 Gasoline	0.017412463	0.017586588	0.019161356	0.240921614	0.007978666	0.987138253	0.002071644	0.0001565243	1.35515E-05	1.87061E-05	53204.64856	106.3276486	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	750 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Outboard Engines	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	120 Gasoline	5.89996E-07	5.89996E-07	6.49255E-07	5.04952E-06	2.52013E-07	9.78999E-05	8.91801E-09	6.73805E-09	1.06675E-09	1.4725E-09	4.012620511	0.05593949	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	120 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	15 Gasoline	0.000354839	0.000358388	0.000390479	0.005729717	0.000360977	0.044341348	6.74653E-06	5.09738E-06	7.19383E-07	9.93015E-07	2035.83018	211.5172746	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	15 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	175 Gasoline	0.002653483	0.002680018	0.002919997	0.03031469	0.007593914	0.522850129	5.25998E-05	3.97421E-05	5.65898E-06	7.81149E-06	21623.21238	189.4275791	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	175 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	25 Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	25 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	250 Gasoline	0.01530165	0.015454666	0.016838511	0.193411226	0.013864413	1.628583545	0.000162661	0.000122824	1.92348E-05	2.65511E-05	74069.78746	468.3464911	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	250 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	500 Gasoline	0.020533321	0.020738655	0.022595667	0.152535381	0.007462621	3.48827988	0.000364054	0.000275064	3.64289E-05	5.02854E-05	141717.2574	708.1869198	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	500 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	750 Gasoline	0.002480476	0.00250518	0.002729502	0.004627079	0.000761658	0.129958817	1.35636E-05	1.02015E-05	1.80703E-06	1.91461E-06	5442.26885	14.46414271	0	0
Orange (SC)	2030 Pleasure Craft - Vessels W/Sterndrive Engines	Aggregate	750 Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange (SC)	2030 Portable Equipment - Non-Rental Compressor	Aggregate	100 Diesel	0.000025285	0.000248395	0.000295611	0.007222589	0.00269425	1.082402438	0.00020767	0.000190685	1.00012E-05	8.8442E-06	35117.35503	26978.95544	4.17982088	2080276.682
Orange (SC)	2030 Portable Equipment - Non-Rental Compressor	Aggregate	175 Diesel	0.000279893	0.000338671	0.000403047	0.012519655	0.0014379	2.27022346	5.54995E-05	5.47354E-05	2.09846E-05	1.83252E-05	73667.84139	34913.94234	79.521227	463924.689
Orange (SC)	2030 Portable Equipment - Non-Rental Compressor	Aggregate	300 Diesel	0.000179488	0.000213541	0.000254131	0.002590868	0.00071746	1.361828861	3.57728E-05	3.2911E-05	1.25855E-05	1.11151E-05	44183.03761	10175.45378	23.18789006	2617308.245

**Construction Worker Trips Fuel Usage Worksheet**

Note: Per CalEEMod methodology, worker vehicles are "LD\_Mix", which is 50% LDA, 25% LDT1, and 25% LDT2

Activity <sup>1</sup>	Daily trips <sup>1,2</sup>	Trip miles <sup>2</sup>	Trip days <sup>1</sup>	Annual VMT
<b>2023</b>				
West Rem Area - Site Preparation	18	14.7	6	1,588
West Rem Area - Rough Grading	20	14.7	17	4,998
Phase 1 - Site Preparation	18	14.7	46	12,172
Phase 1 - Rough Grading	20	14.7	63	18,522
Phase 1 - Utility Trenching	8	14.7	30	3,528
<b>2024</b>				
Phase 1 - Rough Grading	20	14.7	28	8,232
Phase 1 - Utility Trenching	8	14.7	50	5,880
Phase 1 - Fine Grading	20	14.7	90	26,460
Phase 1 - Asphalt Paving	15	14.7	92	20,286
Phase 1 - Finishing/Landscaping	3	14.7	91	4,013
Phase 1 - Building Construction	236	14.7	167	579,356
East Rem Area - Site Preparation	18	14.7	6	1,588
East Rem Area - Rough Grading	20	14.7	17	4,998
Phase 2 - Site Preparation	18	14.7	17	4,498
<b>2025</b>				
Phase 1 - Building Construction	236	14.7	108	374,674
Phase 1 - Architectural Coating	47	14.7	90	62,181
Phase 2 - Site Preparation	18	14.7	66	17,464
Phase 2 - Rough Grading	20	14.7	139	40,866
Phase 2 - Utility Trenching	8	14.7	121	14,230
Phase 2 - Fine Grading	20	14.7	141	41,454
Phase 2 - Asphalt Paving	15	14.7	82	18,081
Phase 2 - Finishing/Landscaping	3	14.7	46	2,029
Phase 2 - Building Construction	685	14.7	11	110,765
<b>2026</b>				
Phase 2 - Asphalt Paving	15	14.7	61	13,451
Phase 2 - Finishing/Landscaping	3	14.7	95	4,190
Phase 2 - Building Construction	685	14.7	261	2,628,140
Phase 3 - Site Preparation	18	14.7	47	12,436
Phase 3 - Rough Grading	20	14.7	62	18,228
<b>2027</b>				
Phase 2 - Building Construction	685	14.7	151	1,520,495
Phase 2 - Architectural Coating	137	14.7	142	285,974
Phase 3 - Rough Grading	20	14.7	173	50,862
Phase 3 - Utility Trenching	8	14.7	165	19,404
Phase 3 - Fine Grading	20	14.7	135	39,690
Phase 3 - Asphalt Paving	15	14.7	86	18,963
Phase 3 - Finishing/Landscaping	3	14.7	40	1,764
<b>2028</b>				
Phase 3 - Fine Grading	20	14.7	55	16,170
Phase 3 - Asphalt Paving	15	14.7	55	12,128
Phase 3 - Finishing/Landscaping	3	14.7	104	4,586
Phase 3 - Building Construction	49	14.7	204	146,941
<b>2029</b>				
Phase 3 - Building Construction	49	14.7	261	187,998
Phase 3 - Architectural Coating	10	14.7	33	4,851
<b>2030</b>				
Phase 3 - Building Construction	49	14.7	109	78,513
Phase 3 - Architectural Coating	10	14.7	109	16,023

PhaseName PhaseType  
 Site Preparation Site Prepar  
 Rough Grading Grading  
 Rough Grading Soil Grading  
 Fine Grading Grading  
 Building ConstructkBuilding Cc  
 Utility Trenching Trenching  
 Finishing/Landscap Trenching  
 Architectural Coatir Architectu

<sup>1</sup> Based on information provided.

<sup>2</sup> Based on CalEEMod defaults.

Year	LDA VMT	LDT1 VMT	LDT2 VMT	Gasoline <sup>1</sup>						Diesel <sup>1</sup>						Electricity <sup>1</sup>					
				LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA mpg	LDA gallons	LDT1 mpg	LDT1 gallons	LDT2 mpg	LDT2 gallons	LDA m/kWh	LDA kWh	LDT1 m/kWh	LDT1 kWh	LDT2 m/kWh	LDT2 kWh
2023	20,404	10,202	10,202	29.27	645	24.63	413	23.64	426	42.40	1	23.84	0	31.32	1	2.71	548	2.75	11	2.92	28
2024	327,656	163,828	163,828	29.76	10,070	25.00	6,525	24.10	6,699	42.70	16	23.85	1	31.72	21	2.70	10,102	2.77	239	2.90	598
2025	681,742	170,435	170,435	30.28	20,356	25.39	6,674	24.56	6,820	43.05	30	23.88	1	32.16	21	2.70	23,779	2.78	344	2.88	777
2026	1,338,222	669,111	669,111	30.80	39,018	25.78	25,763	25.01	26,239	43.40	53	23.92	3	32.57	81	2.70	49,742	2.78	1,751	2.87	3,577
2027	1,937,151	484,288	484,288	31.26	55,312	26.13	18,362	25.38	18,667	43.77	68	24.75	1	32.93	58	2.70	76,019	2.79	1,611	2.86	2,984
2028	179,825	44,956	44,956	31.75	5,027	26.51	1,676	25.77	1,703	44.33	6	25.81	0	33.36	5	2.70	7,402	2.79	187	2.86	315
2029	192,849	48,212	48,212	32.20	5,288	26.89	1,768	26.13	1,797	44.87	5	26.17	0	33.77	6	2.70	8,286	2.79	245	2.85	380
2030	94,536	23,634	23,634	32.61	2,547	27.25	853	26.45	868	45.49	2	27.37	0	34.16	3	2.69	4,225	2.78	145	2.84	208

<sup>1</sup> EMFAC2021 v1.0.1.

Year	VMT from gasoline			VMT from diesel			VMT from electricity		
	LDA	LDT1	LDT2	LDA	LDT1	LDT2	LDA	LDT1	LDT2
2023	92.51%	99.70%	98.79%	0.23%	0.02%	0.40%	7.26%	0.29%	0.81%
2024	91.46%	99.58%	98.54%	0.21%	0.01%	0.40%	8.33%	0.40%	1.06%
2025	90.40%	99.43%	98.29%	0.19%	0.01%	0.40%	9.41%	0.56%	1.31%
2026	89.80%	99.26%	98.07%	0.17%	0.01%	0.40%	10.03%	0.73%	1.54%
2027	89.26%	99.07%	97.84%	0.15%	0.01%	0.39%	10.58%	0.93%	1.76%
2028	88.76%	98.84%	97.61%	0.14%	0.00%	0.39%	11.10%	1.16%	2.00%
2029	88.29%	98.58%	97.37%	0.12%	0.00%	0.39%	11.58%	1.42%	2.25%
2030	87.85%	98.29%	97.12%	0.11%	0.00%	0.38%	12.04%	1.71%	2.50%

Gasoline		Diesel		Electricity	
VMT	Gallons	VMT	Gallons	VMT	kWh
39,124	1,484	90	2	1,593	587
624,260	23,294	1,364	38	29,687	10,939
953,274	33,850	1,989	52	67,350	24,900
2,522,104	91,020	5,001	137	149,338	55,070
2,682,760	92,341	4,892	127	218,075	80,614
247,935	8,406	423	11	21,380	7,904
264,748	8,853	423	11	24,102	8,912
129,231	4,267	194	5	12,378	4,578
<b>7,463,437</b>	<b>263,515</b>	<b>14,377</b>	<b>382</b>	<b>523,904</b>	<b>193,504</b>



**Vendor Trips Fuel Usage Worksheet**

Note: Based on CalEEMod methodology, vendor vehicles are 50% HHD (T7) and 50% MHD (T6).

Activity <sup>1</sup>	Daily trips <sup>1,2</sup>	Trip miles <sup>2</sup>	Trip days <sup>1</sup>	Annual VMT
2023				
West Rem Area - Rough Grading	16	6.9	6	662
Phase 1 - Site Preparation	32	6.9	17	3,754
Phase 1 - Rough Grading	18	6.9	46	5,713
Phase 1 - Utility Trenching	20	6.9	63	8,694
2024				
Phase 1 - Rough Grading	18	6.9	28	3,478
Phase 1 - Utility Trenching	20	6.9	50	6,900
Phase 1 - Fine Grading	20	6.9	90	12,420
Phase 1 - Asphalt Paving	15	6.9	92	9,522
Phase 1 - Finishing/Landscaping	3	6.9	91	1,884
Phase 1 - Building Construction	236	6.9	167	3,478
East Rem Area - Site Preparation	32	6.9	6	1,325
East Rem Area - Rough Grading	16	6.9	17	1,877
Phase 2 - Site Preparation	8	6.9	17	938
2025				
Phase 1 - Building Construction	236	6.9	108	175,867
Phase 1 - Architectural Coating	47	6.9	90	29,187
Phase 2 - Site Preparation	8	6.9	66	3,643
Phase 2 - Rough Grading	16	6.9	139	15,346
Phase 2 - Utility Trenching	0	6.9	121	0
Phase 2 - Fine Grading	16	6.9	141	15,566
Phase 2 - Asphalt Paving	0	6.9	82	0
Phase 2 - Finishing/Landscaping	0	6.9	46	0
Phase 2 - Building Construction	176	6.9	11	13,358
2026				
Phase 2 - Asphalt Paving	0	6.9	61	0
Phase 2 - Finishing/Landscaping	0	6.9	95	0
Phase 2 - Building Construction	176	6.9	261	316,958
Phase 3 - Site Preparation	8	6.9	47	2,594
Phase 3 - Rough Grading	16	6.9	62	6,845
2027				
Phase 2 - Building Construction	176	6.9	151	183,374
Phase 2 - Architectural Coating	0	6.9	142	0
Phase 3 - Rough Grading	16	6.9	173	19,099
Phase 3 - Utility Trenching	0	6.9	165	0
Phase 3 - Fine Grading	16	6.9	135	14,904
Phase 3 - Asphalt Paving	0	6.9	86	0
Phase 3 - Finishing/Landscaping	0	6.9	40	0
2028				
Phase 3 - Fine Grading	16	6.9	55	6,072
Phase 3 - Asphalt Paving	0	6.9	55	0
Phase 3 - Finishing/Landscaping	0	6.9	104	0
Phase 3 - Building Construction	14	6.9	204	19,706
2029				
Phase 3 - Building Construction	14	6.9	261	25,213
Phase 3 - Architectural Coating	0	6.9	33	0
2030				
Phase 3 - Building Construction	14	6.9	109	10,529
Phase 3 - Architectural Coating	0	6.9	109	0

<sup>1</sup> Based on information provided.

<sup>2</sup> Based on CalEEMod defaults.

Year	HHD (T7) VMT	MHD (T6) VMT	Gasoline <sup>1</sup>				Diesel <sup>1</sup>				
			HHD (T7) mpg	HHD (T7) gallons	MHD (T6) mpg	MHD (T6) gallons	HHD (T7) mpg	HHD (T7) gallons	MHD (T6) mpg	MHD (T6) gallons	
2023	9,412	9,412	4.11	1	5.15	481	4.11	5.97	1,475	8.93	768
2024	20,910	20,910	4.20	2	5.17	1,026	6.03	3,232	8.94	1,722	
2025	126,484	126,484	4.31	12	5.20	5,901	6.11	18,132	8.98	10,439	
2026	163,199	163,199	4.43	14	5.25	7,244	6.27	22,766	9.04	13,538	
2027	108,689	108,689	4.50	9	5.25	4,637	6.27	15,136	9.04	9,116	
2028	12,889	12,889	4.57	1	5.29	510	6.36	1,842	9.08	1,058	
2029	12,606	12,606	4.65	1	5.32	466	6.45	1,757	9.12	1,019	
2030	5,265	5,265	4.73	0	5.35	195	6.54	701	9.17	449	

<sup>1</sup> EMFAC2021 v1.0.1.

Year	VMT from gasoline		VMT from diesel	
	HHD (T7)	MHD (T6)	HHD (T7)	MHD (T6)
2023	0.05%	26.29%	93.59%	72.92%
2024	0.05%	25.33%	93.26%	73.63%
2025	0.04%	24.25%	87.60%	74.10%
2026	0.04%	23.32%	87.40%	74.95%
2027	0.04%	22.41%	87.25%	75.78%
2028	0.04%	20.92%	90.86%	74.48%
2029	0.04%	19.68%	89.90%	73.75%
2030	0.04%	19.83%	87.06%	78.15%

**VENDOR**

Gasoline	Diesel			
	VMT	Gallons	VMT	Gallons
2,479	482	15,671	2,243	
5,306.68	1,027.84	34,896	4,954	
30,718.11	5,913.36	204,521	28,571	
38,112.89	7,257.81	264,963	36,304	
24,400.51	4,646.45	177,198	24,252	
2,700.80	511.05	21,311	2,900	
2,485.10	467.22	20,630	2,776	
1,045.61	195.33	8,697	1,150	
<b>107,248.77</b>	<b>20,501.01</b>	<b>747,888.07</b>	<b>103,148.86</b>	

**Truck Haul Trips Fuel Usage Worksheet**

*Note: Hauling vehicles are HHDT (T7)*

Activity	Total Trips <sup>1</sup>	Mi/Trip <sup>1</sup>	Annual VMT
2023			
West Rem Area - Rough Grading	2,270	75	170,250
2024			
East Rem Area - Rough Grading	2,187	75	164,025

Year	VMT	Gasoline <sup>1</sup>		Diesel <sup>1</sup>	
		HHDT (T7) mpg	HHDT (T7) gallons	HHDT (T7) mpg	HHDT (T7) gallons
2023	170,250	4.11	0	5.97	28,505
2024	164,025	4.20	0	6.03	27,183

Gasoline		Diesel	
VMT	Gallons	VMT	Gallons
0	0	170,250	28,505
0	0	164,025	27,183
<b>0</b>	<b>0</b>	<b>334,275</b>	<b>55,688</b>

<sup>1</sup> EMFAC2021 v1.0.1.

Operation - Vehicle Fuel Usage

Land Use

Vehicle type	Fleet percent						Total
	Condo/Townhouse	Condo/Townhouse	Single-Family	Single-Family	City Park	City Park	
LDA	56.38%	8,853,265	56.38%	7,684,259	56.38%	1,685,463	18,222,988
LDT1	6.56%	1,030,460	6.56%	894,395	6.56%	196,176	2,121,031
LDT2	18.45%	2,897,620	18.45%	2,515,011	18.45%	551,642	5,964,273
MDV	12.21%	1,917,127	12.21%	1,663,985	12.21%	364,978	3,946,090
LHD1	2.48%	389,119	2.48%	337,739	2.48%	74,080	800,938
LHD2	0.74%	115,856	0.74%	100,558	0.74%	22,056	238,471
MHD	0.37%	58,713	0.37%	50,961	0.37%	11,178	120,852
HHD	0.00%	0	0.00%	0	0.00%	0	0
OBUS	0.02%	2,638	0.02%	2,290	0.02%	502	5,430
UBUS	0.01%	1,366	0.01%	1,186	0.01%	260	2,812
MCY	2.68%	420,996	2.68%	365,407	2.68%	80,148	866,552
SBUS	0.02%	2,654	0.02%	2,303	0.02%	505	5,462
MH	0.08%	13,143	0.08%	11,408	0.08%	2,502	27,053
	100.00%	15,702,959	100.00%	13,629,503	100.00%	2,989,491	32,321,953

32,321,953

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unflagged Annual VMT	Flagged Annual VMT
	Weekday	Saturday	Sunday		
City Park	426.00	2,424.00	1857.00	2,859,491	2,859,491
Condo/Townhouse	4,680.00	5,694.00	4659.00	15,702,959	15,702,959
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	4,243.01	4,266.00	3816.00	13,629,503	13,629,503
Total	9,351.01	12,389.00	10,332.98	32,321,954	32,321,954

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.563796	0.065622	0.184527	0.122087	0.024765	0.007376	0.003738	0.000000	0.000168	0.000081	0.026819	0.000169	0.000837
Condo/Townhouse	0.563796	0.065622	0.184527	0.122087	0.024765	0.007376	0.003738	0.000000	0.000168	0.000081	0.026819	0.000169	0.000837
Other Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000681	0.003397
Other Non-Asphalt Surfaces	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000681	0.003397
Parking Lot	0.552483	0.064305	0.180824	0.119637	0.024283	0.007230	0.015168	0.004685	0.000681	0.000351	0.026272	0.000681	0.003397
Single Family Housing	0.563796	0.065622	0.184527	0.122087	0.024765	0.007376	0.003738	0.000000	0.000168	0.000081	0.026819	0.000169	0.000837

PROPOSED CONDITIONS

Vehicle type	Gas percent	Diesel percent	CNG percent	Electricity percent
LDA	86.36%	0.07%	0.00%	13.57%
LDT1	97.03%	0.00%	0.00%	2.97%
LDT2	96.17%	0.37%	0.00%	3.47%
MDV	94.09%	1.09%	0.00%	4.82%
LHD1	44.86%	31.03%	0.00%	24.12%
LHD2	24.10%	52.89%	0.00%	23.01%
MHD	11.88%	62.62%	0.90%	24.61%
HHD	0.03%	83.12%	5.72%	12.53%
OBUS	33.50%	50.14%	7.90%	12.71%
UBUS	25.86%	0.00%	41.15%	32.99%
MCY	100.00%	0.00%	0.00%	0.00%
SBUS	42.35%	13.45%	30.85%	13.35%
MH	63.15%	36.85%	0.00%	0.00%

<< Equal to T6 (<https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf>)

<< Equal to T7 (<https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf>)

<< Motor coach, all other buses, and OBUS (<https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol3-technical-documentation-052015.pdf>)

PROPOSED CONDITIONS

Vehicle type	VMT	Gasoline		Diesel		CNG		Electricity			
		mpg	Gallons	mpg	Gallons	mpg	Gallons	m/kWh	kWh		
LDA	15,737,019	34.15	460,771	12.425	48.71	255	0	2,473,544	2.69	919,631	
LDT1	2,058,029	28.78	71,498	19	27.83	1	0	62,983	2.78	22,669	
LDT2	5,735,712	27.71	207,018	21.832	35.84	609	0	206,730	2.82	73,269	
MDV	3,712,778	22.74	163,283	43,049	27.04	1,592	0	190,263	2.76	68,978	
LHD1	359,277	16.31	22,027	248,513	21.58	11,515	0	193,147	1.78	0	
LHD2	57,469	14.22	4,041	126,139	18.44	6,841	0	54,864	1.78	0	
MHD	14,355	5.55	2,585	75,674	9.46	7,999	1,085	8.56	0	29,738	
HHD	0	5.01	0	7.00	0	0	0	6.60	0	0.56	
OBUS	1,819	5.70	319	2,723	8.38	325	429	9.77	0	690	
UBUS	727	15.82	46	0	0.00	0	1,157	3.05	380	928	
MCY	866,552	43.09	20,109	0	0.00	0	0	0	0	0.00	
SBUS	2,313	9.26	250	735	7.83	94	1,685	4.43	0	729	
MH	17,084	4.89	3,492	9,969	10.15	982	0	0	0	0.00	
	<b>28,563,135</b>		<b>955,438</b>	<b>541,078</b>		<b>30,213</b>	<b>4,356</b>	<b>380</b>	<b>3,213,615</b>		<b>1,084,548</b>



EMFAC Fuel Usage: Year 2023

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	19,713	2,114	9.33	5,163	584	8.83	0	0	0.00
LDA	43,202,899	1,476,109	29.27	107,965	2,546	42.40	0	0	0.00	3,390,395	1,253,282	2.71
LDT1	3,535,544	143,537	24.63	542	23	23.84	0	0	0.00	10,161	3,700	2.75
LDT2	21,052,164	890,627	23.64	85,235	2,722	31.32	0	0	0.00	173,344	59,274	2.92
LHD1	1,651,744	120,883	13.66	883,472	43,064	20.52	0	0	0.00	0	0	0.00
LHD2	254,112	21,160	12.01	371,136	21,537	17.23	0	0	0.00	0	0	0.00
MCY	315,261	7,508	41.99	0	0	0.00	0	0	0.00	0	0	0.00
MDV	12,569,172	651,716	19.29	185,305	7,858	23.58	0	0	0.00	136,995	48,772	2.81
MH	60,121	12,273	4.90	29,797	2,936	10.15	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	16,661	2,987	5.58	0	0	0.00	0	0	0.00
OBUS	37,020	7,203	5.14	0	0	0.00	0	0	0.00	0	0	0.00
PTO	0	0	0.00	44,230	9,021	4.90	0	0	0.00	18	37	0.48
SBUS	29,787	3,359	8.87	17,539	2,387	7.35	18,220	4,267	4.27	9	10	0.86
T6	413,802	80,409	5.15	1,147,552	128,477	8.93	12,024	1,429	8.42	397	415	0.96
T7	607	148	4.11	1,203,555	201,513	5.97	81,318	14,027	5.80	465	830	0.56
UBUS	42,088	3,656	11.51	0	0	0.00	110,641	37,305	2.97	78	165	0.47
<b>Total</b>	<b>83,164,321</b>	<b>3,418,590</b>	<b>24.33</b>	<b>4,112,701</b>	<b>427,185</b>	<b>9.63</b>	<b>227,365</b>	<b>57,612</b>	<b>3.95</b>	<b>3,711,862</b>	<b>1,366,485</b>	<b>2.72</b>

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Orange

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange	2023	All Other Buses	Aggregate	Aggregate	Diesel	344.1513351	19712.88559	19712.88559	0	3062.946883	2.113981463	0
Orange	2023	All Other Buses	Aggregate	Aggregate	Natural Gas	82.4698802	5162.726383	5162.726383	0	733.9819338	0.584452721	0
Orange	2023	LDA	Aggregate	Aggregate	Gasoline	1076181.788	42528216.69	42528216.69	0	5027536.604	1452.688975	0
Orange	2023	LDA	Aggregate	Aggregate	Diesel	3514.160863	107965.2638	107965.2638	0	14934.48731	2.546148122	0
Orange	2023	LDA	Aggregate	Aggregate	Electricity	59474.26903	2727828.291	0	2727828.291	297047.6338	0	1053166.86
Orange	2023	LDA	Aggregate	Aggregate	Plug-in Hybrid	28501.98182	1337249.552	674682.5697	662566.9819	117855.6948	23.4198944	200114.9762
Orange	2023	LDT1	Aggregate	Aggregate	Gasoline	99223.58776	3533281.003	3533281.003	0	441285.8098	143.4582617	0
Orange	2023	LDT1	Aggregate	Aggregate	Diesel	34.75929356	542.0338996	542.0338996	0	100.8765649	0.022735583	0
Orange	2023	LDT1	Aggregate	Aggregate	Electricity	191.5905712	7503.643869	0	7503.643869	904.4236168	0	2897.025843
Orange	2023	LDT1	Aggregate	Aggregate	Plug-in Hybrid	92.38650547	4919.504479	2262.527472	2656.977007	382.0182001	0.078709254	802.4862467
Orange	2023	LDT2	Aggregate	Aggregate	Gasoline	516653.7857	20968860.09	20968860.09	0	2429660.177	887.7184413	0
Orange	2023	LDT2	Aggregate	Aggregate	Diesel	2003.36011	85234.509	85234.509	0	9627.099816	2.721634991	0
Orange	2023	LDT2	Aggregate	Aggregate	Electricity	2218.112632	82315.88053	0	82315.88053	11392.79038	0	31780.72378
Orange	2023	LDT2	Aggregate	Aggregate	Plug-in Hybrid	3400.552925	174332.1824	83304.18595	91027.99647	14061.28635	2.908453393	27493.168
Orange	2023	LHD1	Aggregate	Aggregate	Gasoline	41394.67541	1651744.117	1651744.117	0	616718.9856	120.8831513	0
Orange	2023	LHD1	Aggregate	Aggregate	Diesel	20789.38864	883471.7136	883471.7136	0	261504.3561	43.06403864	0
Orange	2023	LHD2	Aggregate	Aggregate	Gasoline	6757.483486	254111.7405	254111.7405	0	100676.4353	21.16016017	0
Orange	2023	LHD2	Aggregate	Aggregate	Diesel	8706.571129	371136.2979	371136.2979	0	109517.7119	21.53680933	0
Orange	2023	MCY	Aggregate	Aggregate	Gasoline	49410.95758	315261.4897	315261.4897	0	98821.91517	7.508408221	0
Orange	2023	MDV	Aggregate	Aggregate	Gasoline	323460.5581	12520789.89	12520789.89	0	1501677.358	650.0021614	0
Orange	2023	MDV	Aggregate	Aggregate	Diesel	4630.543523	185304.7669	185304.7669	0	21856.46692	7.858423577	0
Orange	2023	MDV	Aggregate	Aggregate	Electricity	2366.549836	87987.32368	0	87987.32368	12162.87966	0	33970.36893
Orange	2023	MDV	Aggregate	Aggregate	Plug-in Hybrid	2109.808178	97389.76861	48381.74353	49008.02509	8724.056816	1.714229078	14801.88425
Orange	2023	MH	Aggregate	Aggregate	Gasoline	6246.542371	60121.11097	60121.11097	0	624.9040988	12.27338692	0
Orange	2023	MH	Aggregate	Aggregate	Diesel	2943.826344	29796.95492	29796.95492	0	294.3826344	2.935881151	0
Orange	2023	Motor Coach	Aggregate	Aggregate	Diesel	116.9385067	16660.75178	16660.75178	0	2687.246885	2.986737061	0
Orange	2023	OBUS	Aggregate	Aggregate	Gasoline	876.9027969	37020.1996	37020.1996	0	17545.07116	7.203304301	0
Orange	2023	PTO	Aggregate	Aggregate	Diesel	0	44229.87717	44229.87717	0	0	9.021384546	0
Orange	2023	PTO	Aggregate	Aggregate	Electricity	0	17.82980411	0	17.82980411	0	0	36.93477384
Orange	2023	SBUS	Aggregate	Aggregate	Gasoline	661.9447764	29787.08397	29787.08397	0	2647.779106	3.359332103	0
Orange	2023	SBUS	Aggregate	Aggregate	Diesel	854.0901222	17539.34852	17539.34852	0	12367.22497	2.386688805	0
Orange	2023	SBUS	Aggregate	Aggregate	Electricity	0.774914199	8.998995356	0	8.998995356	11.2207576	0	10.40555041
Orange	2023	SBUS	Aggregate	Aggregate	Natural Gas	715.5663177	18219.78605	18219.78605	0	10361.40028	4.267223725	0
Orange	2023	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	8.90806566	596.5282368	596.5282368	0	204.7073489	0.065031625	0
Orange	2023	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.011396266	0.419236653	0	0.419236653	0.261886203	0	0.440321245
Orange	2023	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	11.95144074	818.416663	818.416663	0	274.6441082	0.089093425	0
Orange	2023	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	0.012815247	0.487925228	0	0.487925228	0.294494384	0	0.512464363
Orange	2023	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	37.75149226	2137.20524	2137.20524	0	867.5292922	0.229391797	0
Orange	2023	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	0.08919049	2.615878344	0	2.615878344	2.049597458	0	2.747438235
Orange	2023	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	65.05836483	13401.97621	13401.97621	0	1495.041224	1.352703639	0
Orange	2023	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	0.071017508	7.399387054	0	7.399387054	1.631982324	0	7.771523072
Orange	2023	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.063857268	12.66403866	12.66403866	0	1.467440018	0.001274661	0
Orange	2023	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	2476.152649	85240.98266	85240.98266	0	35334.6983	9.680704091	0
Orange	2023	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	2.076721432	37.96979534	0	37.96979534	29.63481484	0	39.64504399
Orange	2023	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	7.531217008	261.9732584	261.9732584	0	107.4704667	0.031935795	0
Orange	2023	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	1996.835467	69504.30536	69504.30536	0	28494.84211	7.862891	0
Orange	2023	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	1.371248041	25.09192889	0	25.09192889	19.56770954	0	26.19899885
Orange	2023	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	4.944550118	176.1026214	176.1026214	0	70.55873018	0.021244166	0
Orange	2023	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	6209.602575	214969.0551	214969.0551	0	88611.02874	24.41743892	0
Orange	2023	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	5.891830087	107.5820741	0	107.5820741	84.07641534	0	112.3286555
Orange	2023	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	15.41270124	531.8815177	531.8815177	0	219.9392467	0.064447817	0
Orange	2023	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	812.0083033	44926.9356	44926.9356	0	11587.35849	4.871872986	0
Orange	2023	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	0.232472631	5.004564182	0	5.004564182	3.317384444	0	5.225368358
Orange	2023	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	23.94808577	1333.848624	1333.848624	0	341.739184	0.156681191	0
Orange	2023	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	2132.635555	90267.79709	90267.79709	0	24653.26701	10.18413389	0
Orange	2023	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	0.37826809	7.849905835	0	7.849905835	4.372779126	0	8.198941207
Orange	2023	T6 Instate Other Class 4	Aggregate	Aggregate	Natural Gas	5.230463379	226.9178962	226.9178962	0	60.46415666	0.027602202	0
Orange	2023	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	4921.508542	218523.7642	218523.7642	0	56892.63874	24.68124259	0
Orange	2023	T6 Instate Other Class 5	Aggregate	Aggregate	Electricity	3.106793029	64.81594999	0	64.81594999	35.91452741	0	67.69790293
Orange	2023	T6 Instate Other Class 5	Aggregate	Aggregate	Natural Gas	11.45532401	500.9603161					

Orange	2023 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	0.645671067	25.93406375	25.93406375	0	8.264589654	0.002958164	0
Orange	2023 T6 Utility Class 6	Aggregate	Aggregate	Diesel	20.16560355	814.5795629	814.5795629	0	258.1197255	0.086708077	0
Orange	2023 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.242287204	9.5875887	9.5875887	0	3.101276213	0.001088975	0
Orange	2023 T6 Utility Class 7	Aggregate	Aggregate	Diesel	22.96641916	1131.14166	1131.14166	0	293.9701653	0.120166728	0
Orange	2023 T6 Utility Class 7	Aggregate	Aggregate	Electricity	0.037219952	1.062337564	0	1.062337564	0.476415389	0	1.113266067
Orange	2023 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.325221353	14.48627974	14.48627974	0	4.162833325	0.001624474	0
Orange	2023 T6TS	Aggregate	Aggregate	Gasoline	7581.400632	413802.2854	413802.2854	0	151688.6638	80.40931741	0
Orange	2023 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1064.693157	220321.6801	220321.6801	0	24466.64874	35.90168739	0
Orange	2023 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	2.393755946	253.7265054	0	253.7265054	55.00851163	0	453.0742125
Orange	2023 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	4.580388394	939.6697719	939.6697719	0	105.2573253	0.168792683	0
Orange	2023 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	960.8288702	262508.6039	262508.6039	0	22079.84744	42.36637626	0
Orange	2023 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	402.0228659	95317.14382	95317.14382	0	9238.485459	15.5618677	0
Orange	2023 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1340.221874	174632.599	174632.599	0	21926.02986	29.05312492	0
Orange	2023 T7 POLA Class 8	Aggregate	Aggregate	Electricity	0.417241901	22.73816743	0	22.73816743	6.826077508	0	40.57024101
Orange	2023 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	15.84587167	2045.687922	2045.687922	0	259.2384605	0.364911337	0
Orange	2023 T7 Public Class 8	Aggregate	Aggregate	Diesel	810.6537496	32521.01066	32521.01066	0	4158.653735	5.690186271	0
Orange	2023 T7 Public Class 8	Aggregate	Aggregate	Electricity	0.336127107	9.642944947	0	9.642944947	1.724332057	0	17.19480722
Orange	2023 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	219.2111575	11476.29468	11476.29468	0	1124.553238	1.898874637	0
Orange	2023 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Diesel	280.7241034	19917.78366	19917.78366	0	2644.421054	3.301971841	0
Orange	2023 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Electricity	0.411378178	15.68067558	0	15.68067558	3.875182432	0	27.91946065
Orange	2023 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Natural Gas	16.60271832	1219.700044	1219.700044	0	156.3976066	0.206980107	0
Orange	2023 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	977.975946	60029.89192	60029.89192	0	9212.533411	10.09649412	0
Orange	2023 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	70.04537168	4637.707658	4637.707658	0	659.8274013	0.822977616	0
Orange	2023 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	2168.836696	126828.9048	126828.9048	0	20430.44168	21.01937504	0
Orange	2023 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	2.255714055	74.11378179	0	74.11378179	21.2488264	0	131.9596725
Orange	2023 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	163.4508613	10116.51417	10116.51417	0	1539.707114	1.756382131	0
Orange	2023 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	294.5301242	19124.77372	19124.77372	0	1354.838571	7.151952364	0
Orange	2023 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	0.440553166	11.91938013	0	11.91938013	2.026544565	0	21.19082514
Orange	2023 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	688.7474284	44532.71917	44532.71917	0	3168.238171	7.668595054	0
Orange	2023 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2334.218312	188909.7778	188909.7778	0	33916.19207	30.81332335	0
Orange	2023 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	1.808556376	76.84834858	0	76.84834858	26.27832415	0	137.2565723
Orange	2023 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	76.22241346	6349.503578	6349.503578	0	1107.511668	1.139277711	0
Orange	2023 T7 Utility Class 8	Aggregate	Aggregate	Diesel	74.70038187	3442.985972	3442.985972	0	956.164888	0.55695995	0
Orange	2023 T7 Utility Class 8	Aggregate	Aggregate	Electricity	0.021899289	0.623993032	0	0.623993032	0.280310895	0	1.112672523
Orange	2023 T7IS	Aggregate	Aggregate	Gasoline	8.73145324	606.548947	606.548947	0	174.6989164	0.147681734	0
Orange	2023 UBUS	Aggregate	Aggregate	Gasoline	255.1048963	42087.53345	42087.53345	0	1020.419585	3.65617145	0
Orange	2023 UBUS	Aggregate	Aggregate	Electricity	4.037405551	77.72005682	0	77.72005682	16.1496222	0	165.3142978
Orange	2023 UBUS	Aggregate	Aggregate	Natural Gas	575.5609189	110640.6384	110640.6384	0	2302.243676	37.30456442	0



EMFAC Fuel Usage: Year 2024

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	19,762	2,115	9.34	5,234	586	8.93	0	0	0.00
LDA	43,002,806	1,444,963	29.76	98,494	2,307	42.70	0	0	0.00	3,916,166	1,449,657	2.70
LDT1	3,498,899	139,946	25.00	484	20	23.85	0	0	0.00	14,209	5,134	2.77
LDT2	21,419,307	888,796	24.10	86,973	2,742	31.72	0	0	0.00	229,955	79,295	2.90
LHD1	1,661,882	118,308	14.05	922,159	44,516	20.72	0	0	0.00	11,777	6,618	1.78
LHD2	253,092	20,601	12.29	391,528	22,431	17.45	0	0	0.00	2,888	1,624	1.78
MCY	321,577	7,623	42.19	0	0	0.00	0	0	0.00	0	0	0.00
MDV	12,678,421	645,388	19.64	183,420	7,694	23.84	0	0	0.00	190,181	68,121	2.79
MH	58,496	11,966	4.89	29,762	2,929	10.16	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	16,718	2,986	5.60	0	0	0.00	0	0	0.00
OBUS	35,950	6,945	5.18	0	0	0.00	0	0	0.00	184	193	0.96
PTO	0	0	0.00	44,613	9,012	4.95	0	0	0.00	195	404	0.48
SBUS	30,257	3,398	8.90	16,793	2,277	7.38	18,872	4,392	4.30	162	187	0.86
T6	397,726	77,003	5.17	1,155,909	129,268	8.94	12,501	1,475	8.48	3,856	4,045	0.95
T7	590	140	4.20	1,220,548	202,276	6.03	84,362	14,237	5.93	3,263	5,837	0.56
UBUS	42,204	3,456	12.21	0	0	0.00	110,818	37,371	2.97	78	165	0.47
<b>Total</b>	<b>83,401,207</b>	<b>3,368,534</b>	<b>24.76</b>	<b>4,187,161</b>	<b>430,573</b>	<b>9.72</b>	<b>231,787</b>	<b>58,062</b>	<b>3.99</b>	<b>4,372,913</b>	<b>1,621,280</b>	<b>2.70</b>

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Orange

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange	2024	All Other Buses	Aggregate	Aggregate	Diesel	350.3073076	19761.52253	19761.52253	0	3117.735038	2.114742998	0
Orange	2024	All Other Buses	Aggregate	Aggregate	Natural Gas	85.0569544	5233.822967	5233.822967	0	757.0068942	0.586275139	0
Orange	2024	LDA	Aggregate	Aggregate	Gasoline	1065891.765	42285386.13	42285386.13	0	4977599.192	1420.11895	0
Orange	2024	LDA	Aggregate	Aggregate	Diesel	3266.416655	98494.14462	98494.14462	0	13787.61952	2.306901725	0
Orange	2024	LDA	Aggregate	Aggregate	Electricity	67229.20858	3174887.786	0	3174887.786	334614.1416	0	1225768.723
Orange	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	31196.5885	1458697.84	717420.0362	741277.8035	128997.8935	24.84391801	223887.9903
Orange	2024	LDT1	Aggregate	Aggregate	Gasoline	97776.1357	3495530.367	3495530.367	0	434581.8932	139.8289369	0
Orange	2024	LDT1	Aggregate	Aggregate	Diesel	31.55516109	483.8937201	483.8937201	0	89.92548515	0.020285161	0
Orange	2024	LDT1	Aggregate	Aggregate	Electricity	234.5800758	10019.73277	0	10019.73277	1123.798767	0	3868.443823
Orange	2024	LDT1	Aggregate	Aggregate	Plug-in Hybrid	142.9646924	7558.03441	3369.065326	4188.969084	591.1590033	0.116962428	1265.193515
Orange	2024	LDT2	Aggregate	Aggregate	Gasoline	523220.8345	21321177.46	21321177.46	0	2459651.448	885.3763802	0
Orange	2024	LDT2	Aggregate	Aggregate	Diesel	2063.415332	86972.74449	86972.74449	0	9872.064019	2.742318454	0
Orange	2024	LDT2	Aggregate	Aggregate	Electricity	3182.504872	117085.3103	0	117085.3103	16279.4577	0	45204.59334
Orange	2024	LDT2	Aggregate	Aggregate	Plug-in Hybrid	4167.835855	210999.7343	98129.62463	112870.1097	17234.00126	3.419988632	34090.13719
Orange	2024	LHD1	Aggregate	Aggregate	Gasoline	41326.42062	1661881.956	1661881.956	0	615702.0909	118.308255	0
Orange	2024	LHD1	Aggregate	Aggregate	Diesel	21602.56979	922158.8233	922158.8233	0	271733.1519	44.51642193	0
Orange	2024	LHD1	Aggregate	Aggregate	Electricity	155.3882898	11776.85136	0	11776.85136	2170.676004	0	6617.55844
Orange	2024	LHD2	Aggregate	Aggregate	Gasoline	6721.102951	253091.6297	253091.6297	0	100134.4195	20.60060746	0
Orange	2024	LHD2	Aggregate	Aggregate	Diesel	9173.234432	391527.7031	391527.7031	0	115387.7492	22.43146289	0
Orange	2024	LHD2	Aggregate	Aggregate	Electricity	40.21934854	2888.100628	0	2888.100628	532.3823485	0	1624.384362
Orange	2024	MCY	Aggregate	Aggregate	Gasoline	50238.99817	321576.5516	321576.5516	0	100477.9963	7.622889471	0
Orange	2024	MDV	Aggregate	Aggregate	Gasoline	324536.5237	12620485.4	12620485.4	0	1506316.198	643.3391553	0
Orange	2024	MDV	Aggregate	Aggregate	Diesel	4623.453247	183419.8343	183419.8343	0	21700.57164	7.694115836	0
Orange	2024	MDV	Aggregate	Aggregate	Electricity	3450.063477	127073.3453	0	127073.3453	17655.07327	0	49060.79921
Orange	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	2619.629178	121042.8119	57935.42614	63107.38578	10832.16665	2.048796748	19060.31141
Orange	2024	MH	Aggregate	Aggregate	Gasoline	6023.474387	58495.55977	58495.55977	0	602.5883777	11.96604106	0
Orange	2024	MH	Aggregate	Aggregate	Diesel	2969.063612	29761.94653	29761.94653	0	296.9063612	2.928854631	0
Orange	2024	Motor Coach	Aggregate	Aggregate	Diesel	119.8209857	16717.60593	16717.60593	0	2753.486251	2.986440651	0
Orange	2024	OBUS	Aggregate	Aggregate	Gasoline	859.2545526	35950.2379	35950.2379	0	17191.96509	6.944890861	0
Orange	2024	OBUS	Aggregate	Aggregate	Electricity	2.385794078	184.4758931	0	184.4758931	47.73496791	0	192.6532925
Orange	2024	PTO	Aggregate	Aggregate	Diesel	0	44612.76747	44612.76747	0	0	0	9.011873802
Orange	2024	PTO	Aggregate	Aggregate	Electricity	0	195.2469558	0	195.2469558	0	0	404.4577334
Orange	2024	SBUS	Aggregate	Aggregate	Gasoline	669.6299914	30256.65941	30256.65941	0	2678.519966	3.39846975	0
Orange	2024	SBUS	Aggregate	Aggregate	Diesel	821.2477494	16793.01525	16793.01525	0	11891.66741	2.276611833	0
Orange	2024	SBUS	Aggregate	Aggregate	Electricity	5.553480404	162.1392305	0	162.1392305	66.70275891	0	187.4818099
Orange	2024	SBUS	Aggregate	Aggregate	Natural Gas	748.1584339	18872.09631	18872.09631	0	10833.33412	4.392357878	0
Orange	2024	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	9.060919927	599.330203	599.330203	0	208.2199399	0.064929034	0
Orange	2024	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.047517754	3.488504623	0	3.488504623	1.091957976	0	3.673456405
Orange	2024	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	12.08490979	822.7786756	822.7786756	0	277.7112269	0.089116521	0
Orange	2024	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	0.05438187	4.180190194	0	4.180190194	1.249695382	0	4.401813413
Orange	2024	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	39.55945946	2143.198636	2143.198636	0	909.0763784	0.228564439	0
Orange	2024	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	0.321383507	17.66853994	0	17.66853994	7.385392994	0	18.6052817
Orange	2024	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	66.57538332	13491.85683	13491.85683	0	1529.902309	1.347277156	0
Orange	2024	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	0.260135192	50.08761069	0	50.08761069	5.977906703	0	52.74313042
Orange	2024	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.062205134	12.10670573	12.10670573	0	1.429473983	0.001208106	0
Orange	2024	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	2517.503882	85865.94538	85865.94538	0	35924.7804	9.740764994	0
Orange	2024	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	6.242172167	231.3997561	0	231.3997561	89.0759682	0	242.5522715
Orange	2024	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	8.134299295	284.912234	284.912234	0	116.0764509	0.034311307	0
Orange	2024	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	2034.209318	69987.89456	69987.89456	0	29028.16697	7.909641767	0
Orange	2024	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	5.503746993	206.4269938	0	206.4269938	78.5384696	0	216.375925
Orange	2024	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	5.492435498	196.7618184	196.7618184	0	78.37705456	0.02344848	0
Orange	2024	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	6321.506783	216636.1944	216636.1944	0	90207.90179	24.58946624	0
Orange	2024	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	14.02285844	504.2946118	0	504.2946118	200.1061899	0	528.5995358
Orange	2024	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	16.81014342	588.6318279	588.6318279	0	239.8807466	0.070392613	0
Orange	2024	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	818.5953979	45349.04918	45349.04918	0	11681.35633	4.918788042	0
Orange	2024	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	0.769944858	33.77479584	0	33.77479584	10.98711313	0	35.40260193
Orange	2024	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	23.97232683	1338.00867	1338.00867	0	342.0851038	0.156075287	0
Orange	2024	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	2147.558755	90934.82738	90934.82738	0	24825.77921	10.26451298	0
Orange	2024	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	5.035993163	215.4284103	0	215.4284103	58.21608097	0	225.7890446
Orange	2024	T6 Instate Other Class 4	Aggregate	Aggregate	Natural Gas	5.6125						

Orange	2024 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	0.636176826	25.48270929	25.48270929	0	8.143063372	0.002878817	0
Orange	2024 T6 Utility Class 6	Aggregate	Aggregate	Diesel	20.1109506	812.7357324	812.7357324	0	257.4201676	0.086570793	0
Orange	2024 T6 Utility Class 6	Aggregate	Aggregate	Electricity	0.150126736	6.531290153	0	6.531290153	1.921622224	0	6.867512464
Orange	2024 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.22572922	8.867083958	8.867083958	0	2.889334021	0.001000755	0
Orange	2024 T6 Utility Class 7	Aggregate	Aggregate	Diesel	22.87424918	1128.387997	1128.387997	0	292.7903895	0.119736904	0
Orange	2024 T6 Utility Class 7	Aggregate	Aggregate	Electricity	0.179982128	10.65749026	0	10.65749026	2.303771235	0	11.20612398
Orange	2024 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.299420712	13.16414158	13.16414158	0	3.832585112	0.001467182	0
Orange	2024 T6TS	Aggregate	Aggregate	Gasoline	7429.609302	397726.4227	397726.4227	0	148651.6229	77.00341058	0
Orange	2024 T6TS	Aggregate	Aggregate	Electricity	12.87238758	1091.368558	0	1091.368558	257.5507307	0	1145.879351
Orange	2024 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1086.955178	222819.8979	222819.8979	0	24978.22999	35.89004102	0
Orange	2024 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	6.852129077	1236.502528	0	1236.502528	157.4619262	0	2214.298954
Orange	2024 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	4.582112671	929.6001851	929.6001851	0	105.2969492	0.165236246	0
Orange	2024 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	980.7338213	266621.8565	266621.8565	0	22537.26321	42.18067921	0
Orange	2024 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	412.9177816	96810.67006	96810.67006	0	9488.850622	15.572463	0
Orange	2024 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1446.809942	181915.9591	181915.9591	0	23669.81065	30.37534344	0
Orange	2024 T7 POLA Class 8	Aggregate	Aggregate	Electricity	1.441616491	138.9246565	0	138.9246565	23.58484579	0	248.6787396
Orange	2024 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	15.91667671	1982.767928	1982.767928	0	260.3968309	0.348340783	0
Orange	2024 T7 Public Class 8	Aggregate	Aggregate	Diesel	788.8911969	31718.2653	31718.2653	0	4047.01184	5.516769438	0
Orange	2024 T7 Public Class 8	Aggregate	Aggregate	Electricity	3.332745813	212.8578628	0	212.8578628	17.09698602	0	380.6971027
Orange	2024 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	239.0342786	12287.64329	12287.64329	0	1226.245849	2.006827345	0
Orange	2024 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Diesel	284.2658029	19859.99233	19859.99233	0	2677.783863	3.267425998	0
Orange	2024 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Electricity	2.511885238	193.1106102	0	193.1106102	23.66195894	0	345.1357499
Orange	2024 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Natural Gas	17.47037076	1266.401057	1266.401057	0	164.5708925	0.210709624	0
Orange	2024 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1002.222664	60384.3462	60384.3462	0	9440.937495	10.18782142	0
Orange	2024 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	0.599228764	46.10309397	0	46.10309397	5.644734956	0	82.39747103
Orange	2024 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	73.11647962	4745.669165	4745.669165	0	688.757238	0.837051942	0
Orange	2024 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	2276.349601	128098.2835	128098.2835	0	21443.21324	21.1860493	0
Orange	2024 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	11.20609119	744.088992	0	744.088992	105.561379	0	1329.868473
Orange	2024 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	174.1894671	10324.12208	10324.12208	0	1640.86478	1.775249301	0
Orange	2024 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	267.6922451	17383.17811	17383.17811	0	1231.384327	6.473220832	0
Orange	2024 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	3.100818419	180.0823399	0	180.0823399	14.26376473	0	321.3424113
Orange	2024 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	717.7209722	46412.61113	46412.61113	0	3301.516472	7.747731974	0
Orange	2024 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2470.126358	191485.5457	191485.5457	0	35890.93598	31.06855125	0
Orange	2024 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	6.480989834	497.7272977	0	497.7272977	94.16878229	0	891.2163493
Orange	2024 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	80.83573621	6413.582429	6413.582429	0	1174.543247	1.145866141	0
Orange	2024 T7 Utility Class 8	Aggregate	Aggregate	Diesel	76.54399619	3450.320743	3450.320743	0	979.7631512	0.557276459	0
Orange	2024 T7 Utility Class 8	Aggregate	Aggregate	Electricity	0.156109992	9.864313022	0	9.864313022	1.998207895	0	17.64236162
Orange	2024 T7IS	Aggregate	Aggregate	Gasoline	7.623311802	590.1042313	590.1042313	0	152.5272225	0.140377911	0
Orange	2024 T7IS	Aggregate	Aggregate	Electricity	0.012090741	3.3282409	0	3.3282409	0.241911542	0	5.947994162
Orange	2024 UBUS	Aggregate	Aggregate	Gasoline	255.8303759	42204.05	42204.05	0	1023.321504	3.455588309	0
Orange	2024 UBUS	Aggregate	Aggregate	Electricity	4.037405551	77.72005682	0	77.72005682	16.1496222	0	165.4036891
Orange	2024 UBUS	Aggregate	Aggregate	Natural Gas	576.5236337	110818.2763	110818.2763	0	2306.094535	37.37116031	0



EMFAC Fuel Usage: Year 2019

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	19,776	2,095	9.44	5,360	593	9.03	0	0	0.00
LDA	42,635,135	1,408,232	30.28	89,138	2,071	43.05	0	0	0.00	4,438,074	1,645,028	2.70
LDT1	3,448,061	135,799	25.39	428	18	23.88	0	0	0.00	19,475	7,007	2.78
LDT2	21,680,190	882,682	24.56	87,947	2,735	32.16	0	0	0.00	289,844	100,521	2.88
LHD1	1,660,486	115,615	14.36	951,495	45,634	20.85	0	0	0.00	30,122	16,925	1.78
LHD2	250,353	19,996	12.52	407,867	23,157	17.61	0	0	0.00	7,389	4,156	1.78
MCY	325,908	7,697	42.34	0	0	0.00	0	0	0.00	0	0	0.00
MDV	12,727,540	636,037	20.01	180,507	7,479	24.14	0	0	0.00	244,708	87,912	2.78
MH	56,944	11,647	4.89	29,597	2,914	10.16	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	16,801	2,971	5.66	0	0	0.00	0	0	0.00
OBUS	34,719	6,628	5.24	0	0	0.00	0	0	0.00	444	464	0.96
PTO	0	0	0.00	44,817	8,944	5.01	0	0	0.00	527	1,092	0.48
SBUS	30,658	3,432	8.93	16,073	2,171	7.40	19,463	4,505	4.32	361	417	0.86
T6	379,777	73,083	5.20	1,160,619	129,277	8.98	12,989	1,531	8.48	11,432	11,990	0.95
T7	573	133	4.31	1,236,191	202,294	6.11	87,198	14,516	6.01	7,839	14,024	0.56
UBUS	42,289	3,462	12.21	0	0	0.00	111,030	37,288	2.98	78	165	0.47
<b>Total</b>	<b>83,272,633</b>	<b>3,304,443</b>	<b>25.20</b>	<b>4,241,256</b>	<b>431,758</b>	<b>9.82</b>	<b>236,040</b>	<b>58,434</b>	<b>4.04</b>	<b>5,050,293</b>	<b>1,889,701</b>	<b>2.67</b>

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Orange

Calendar Year: 2025

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange	2025	All Other Buses	Aggregate	Aggregate	Diesel	357.9591136	19775.5479	19775.5479	0	3185.836111	2.095482609	0
Orange	2025	All Other Buses	Aggregate	Aggregate	Natural Gas	89.06555643	5360.043363	5360.043363	0	792.6834523	0.593269269	0
Orange	2025	LDA	Aggregate	Aggregate	Gasoline	1056312.531	41885606.83	41885606.83	0	4931031.913	1382.253543	0
Orange	2025	LDA	Aggregate	Aggregate	Diesel	3018.286484	89138.09087	89138.09087	0	12663.8649	2.070760418	0
Orange	2025	LDA	Aggregate	Aggregate	Electricity	74944.83017	3623884.151	0	3623884.151	371723.8789	0	1399118.378
Orange	2025	LDA	Aggregate	Aggregate	Plug-in Hybrid	33699.13897	1563717.835	749528.1309	814189.7037	139345.9396	25.97830013	245909.5572
Orange	2025	LDT1	Aggregate	Aggregate	Gasoline	96356.97279	3443415.123	3443415.123	0	428003.9752	135.6373362	0
Orange	2025	LDT1	Aggregate	Aggregate	Diesel	28.50822088	428.3760164	428.3760164	0	79.77223022	0.017940676	0
Orange	2025	LDT1	Aggregate	Aggregate	Electricity	292.0687492	13382.73952	0	13382.73952	1415.876564	0	5166.841994
Orange	2025	LDT1	Aggregate	Aggregate	Plug-in Hybrid	205.3971672	10738.80692	4646.357439	6092.449478	849.3172863	0.161489121	1840.101326
Orange	2025	LDT2	Aggregate	Aggregate	Gasoline	529834.4659	21568112.97	21568112.97	0	2489358.817	878.7704302	0
Orange	2025	LDT2	Aggregate	Aggregate	Diesel	2111.525403	87946.98549	87946.98549	0	10062.68846	2.734963301	0
Orange	2025	LDT2	Aggregate	Aggregate	Electricity	4251.506284	154415.472	0	154415.472	21660.49213	0	59617.11678
Orange	2025	LDT2	Aggregate	Aggregate	Plug-in Hybrid	4967.68538	247505.896	112077.2463	135428.6497	20541.37905	3.911737562	40903.48862
Orange	2025	LHD1	Aggregate	Aggregate	Gasoline	41223.98689	1660486.368	1660486.368	0	614175.9809	115.6151536	0
Orange	2025	LHD1	Aggregate	Aggregate	Diesel	22344.74546	951494.9678	951494.9678	0	281068.7882	45.63388289	0
Orange	2025	LHD1	Aggregate	Aggregate	Electricity	428.3107595	30121.52667	0	30121.52667	5987.787693	0	16925.44598
Orange	2025	LHD2	Aggregate	Aggregate	Gasoline	6668.437844	250352.8675	250352.8675	0	99349.78253	19.99612697	0
Orange	2025	LHD2	Aggregate	Aggregate	Diesel	9609.574779	407866.7845	407866.7845	0	120876.3619	23.15667142	0
Orange	2025	LHD2	Aggregate	Aggregate	Electricity	110.6168929	7389.195621	0	7389.195621	1466.888675	0	4155.863955
Orange	2025	MCY	Aggregate	Aggregate	Gasoline	51011.4251	325908.2941	325908.2941	0	102022.8502	7.696840101	0
Orange	2025	MDV	Aggregate	Aggregate	Gasoline	325579.9564	12660247.41	12660247.41	0	1510578.221	633.6536815	0
Orange	2025	MDV	Aggregate	Aggregate	Diesel	4600.640767	180507.4796	180507.4796	0	21493.78288	7.478554396	0
Orange	2025	MDV	Aggregate	Aggregate	Electricity	4586.98934	166596.8195	0	166596.8195	23370.26872	0	64320.12231
Orange	2025	MDV	Aggregate	Aggregate	Plug-in Hybrid	3164.448377	145403.8052	67292.41503	78111.39018	13084.99404	2.383002691	23591.96793
Orange	2025	MH	Aggregate	Aggregate	Gasoline	5833.176957	56944.1428	56944.1428	0	583.5510228	11.64679864	0
Orange	2025	MH	Aggregate	Aggregate	Diesel	2988.17924	29596.96588	29596.96588	0	298.817924	2.913597583	0
Orange	2025	Motor Coach	Aggregate	Aggregate	Diesel	125.6742224	16801.32956	16801.32956	0	2887.993631	2.971004862	0
Orange	2025	OBUS	Aggregate	Aggregate	Gasoline	835.2077651	34718.74829	34718.74829	0	16710.83696	6.628377733	0
Orange	2025	OBUS	Aggregate	Aggregate	Electricity	5.857415532	444.1426882	0	444.1426882	117.19517	0	463.8305298
Orange	2025	PTO	Aggregate	Aggregate	Diesel	0	44816.61842	44816.61842	0	0	8.943723643	0
Orange	2025	PTO	Aggregate	Aggregate	Electricity	0	527.0739208	0	527.0739208	0	0	1091.843519
Orange	2025	SBUS	Aggregate	Aggregate	Gasoline	678.7674095	30657.60454	30657.60454	0	2715.069638	3.431527869	0
Orange	2025	SBUS	Aggregate	Aggregate	Diesel	788.6124051	16073.03349	16073.03349	0	11419.10763	2.170748419	0
Orange	2025	SBUS	Aggregate	Aggregate	Electricity	11.85785342	361.0238769	0	361.0238769	141.8049378	0	417.4523934
Orange	2025	SBUS	Aggregate	Aggregate	Natural Gas	779.1807775	19462.92499	19462.92499	0	11282.53766	4.505240075	0
Orange	2025	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	9.158955168	599.8220333	599.8220333	0	210.4727898	0.064431278	0
Orange	2025	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.112113595	8.925654634	0	8.925654634	2.57637041	0	9.398870498
Orange	2025	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	12.12652461	824.1841272	824.1841272	0	278.6675354	0.088578889	0
Orange	2025	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	0.129648134	10.90823342	0	10.90823342	2.979314117	0	11.48656065
Orange	2025	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	40.98526681	2139.303489	2139.303489	0	941.8414314	0.226318305	0
Orange	2025	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	0.732023034	42.81674139	0	42.81674139	16.82188932	0	45.08677784
Orange	2025	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	67.58038688	13546.16946	13546.16946	0	1552.997291	1.334079277	0
Orange	2025	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	0.620493715	129.9028269	0	129.9028269	14.25894556	0	136.7899496
Orange	2025	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.058530786	11.28875568	11.28875568	0	1.345037467	0.00111981	0
Orange	2025	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	2558.177985	86213.73094	86213.73094	0	36505.19984	9.742464756	0
Orange	2025	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	18.03414456	708.8627762	0	708.8627762	257.3472428	0	743.0270434
Orange	2025	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	8.840999003	309.270171	309.270171	0	126.1610558	0.037068978	0
Orange	2025	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	2068.394814	70276.1874	70276.1874	0	29515.99399	7.91333991	0
Orange	2025	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	14.83208272	588.6984259	0	588.6984259	211.6538204	0	617.0712661
Orange	2025	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	6.102526307	218.5240178	218.5240178	0	87.0830504	0.025921992	0
Orange	2025	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	6438.547158	217570.9147	217570.9147	0	91878.06794	24.60801984	0
Orange	2025	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	42.79642419	1648.001988	0	1648.001988	610.7049732	0	1727.428899
Orange	2025	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	18.59471292	651.6633721	651.6633721	0	265.3465533	0.077550284	0
Orange	2025	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	835.731603	45713.87403	45713.87403	0	11925.88997	4.948558679	0
Orange	2025	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	2.6481505	123.4071179	0	123.4071179	37.69870076	0	129.3548329
Orange	2025	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	24.34144562	1343.070906	1343.070906	0	347.352429	0.156655129	0
Orange	2025	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	2178.40364	91239.5928	91239.5928	0	25182.34608	10.26428846	0
Orange	2025	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	17.19747195	780.6484863	0	780.6484863	198.8027757	0	818.1923434
Orange	2025	T6 Instate Other Class 4	Aggregate	Aggregate	Natural Gas	6.						

Orange	2025 T6 Utility Class 5	Aggregate	Aggregate	Electricity	1.848701188	80.33890184	0	80.33890184	23.6633752	0	84.47464387
Orange	2025 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	0.628118604	25.05725926	25.05725926	0	8.039918137	0.002816017	0
Orange	2025 T6 Utility Class 6	Aggregate	Aggregate	Diesel	20.09416281	809.3458131	809.3458131	0	257.205284	0.085963818	0
Orange	2025 T6 Utility Class 6	Aggregate	Aggregate	Electricity	0.351828266	15.2897157	0	15.2897157	4.503401809	0	16.07681035
Orange	2025 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.209715604	8.145134825	8.145134825	0	2.684359735	0.000917391	0
Orange	2025 T6 Utility Class 7	Aggregate	Aggregate	Diesel	22.73893778	1122.178959	1122.178959	0	291.0584035	0.118544657	0
Orange	2025 T6 Utility Class 7	Aggregate	Aggregate	Electricity	0.397702442	24.53462737	0	24.53462737	5.090591254	0	25.79763803
Orange	2025 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.27442441	11.9609473	11.9609473	0	3.512632453	0.001330022	0
Orange	2025 T6TS	Aggregate	Aggregate	Gasoline	7268.413445	379776.8426	379776.8426	0	145426.4162	73.08335708	0
Orange	2025 T6TS	Aggregate	Aggregate	Electricity	30.3127107	2522.407626	0	2522.407626	606.4967157	0	2648.3948
Orange	2025 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1102.818845	224901.0205	224901.0205	0	25342.77706	35.7296734	0
Orange	2025 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	13.64571349	2693.166869	0	2693.166869	313.5784959	0	4822.858381
Orange	2025 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	4.546730089	917.123243	917.123243	0	104.4838574	0.161809726	0
Orange	2025 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	997.9532453	270799.5596	270799.5596	0	22932.96558	41.79929679	0
Orange	2025 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	422.6777093	98327.59833	98327.59833	0	9713.133759	15.54966697	0
Orange	2025 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1512.029018	189044.5386	189044.5386	0	24736.79474	31.57963099	0
Orange	2025 T7 POLA Class 8	Aggregate	Aggregate	Electricity	3.320246863	353.9057575	0	353.9057575	54.31923868	0	633.5004883
Orange	2025 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	16.44405747	2037.52091	2037.52091	0	269.0247802	0.353290504	0
Orange	2025 T7 Public Class 8	Aggregate	Aggregate	Diesel	766.9152993	30898.55035	30898.55035	0	3934.275485	5.34886604	0
Orange	2025 T7 Public Class 8	Aggregate	Aggregate	Electricity	7.298718278	470.1453073	0	470.1453073	37.44242477	0	840.8566826
Orange	2025 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	259.049126	13098.17678	13098.17678	0	1328.922016	2.125383907	0
Orange	2025 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Diesel	285.0956578	19717.73384	19717.73384	0	2685.601097	3.213433342	0
Orange	2025 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Electricity	5.206711953	426.6582631	0	426.6582631	49.0472266	0	762.5423557
Orange	2025 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Natural Gas	18.11582343	1302.586435	1302.586435	0	170.6510567	0.214145559	0
Orange	2025 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1034.115653	60272.01386	60272.01386	0	9741.369451	10.1360248	0
Orange	2025 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	6.518716158	510.0304544	0	510.0304544	61.4063062	0	911.5487916
Orange	2025 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	76.46095165	4783.778138	4783.778138	0	720.2621645	0.840035443	0
Orange	2025 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	2379.060835	129172.3941	129172.3941	0	22410.75306	21.27554808	0
Orange	2025 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	24.81746245	1717.760901	0	1717.760901	233.7804963	0	3070.057601
Orange	2025 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	183.7034623	10456.94206	10456.94206	0	1730.486615	1.79231289	0
Orange	2025 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	242.7793991	15765.31724	15765.31724	0	1116.785236	5.867958956	0
Orange	2025 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	7.32485694	450.4542748	0	450.4542748	33.69434193	0	803.7993227
Orange	2025 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	743.9504684	48119.06069	48119.06069	0	3422.172155	7.871513443	0
Orange	2025 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2599.004956	193841.2304	193841.2304	0	37763.54201	31.23820146	0
Orange	2025 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	14.4868721	1181.380584	0	1181.380584	210.4942515	0	2115.346488
Orange	2025 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	85.41069563	6482.928599	6482.928599	0	1241.017408	1.157614108	0
Orange	2025 T7 Utility Class 8	Aggregate	Aggregate	Diesel	78.19966656	3451.350584	3451.350584	0	1000.955732	0.555584509	0
Orange	2025 T7 Utility Class 8	Aggregate	Aggregate	Electricity	0.441786397	28.24913889	0	28.24913889	5.654865875	0	50.5236931
Orange	2025 T7IS	Aggregate	Aggregate	Gasoline	6.722292417	572.5132259	572.5132259	0	134.4996267	0.132943836	0
Orange	2025 T7IS	Aggregate	Aggregate	Electricity	0.027208508	7.235020643	0	7.235020643	0.544387836	0	12.92991158
Orange	2025 UBUS	Aggregate	Aggregate	Gasoline	256.3483478	42289.47506	42289.47506	0	1025.393391	3.462280467	0
Orange	2025 UBUS	Aggregate	Aggregate	Electricity	4.037405551	77.72005682	0	77.72005682	16.1496222	0	165.4036891
Orange	2025 UBUS	Aggregate	Aggregate	Natural Gas	577.6938563	111029.5135	111029.5135	0	2310.775425	37.28808911	0



EMFAC Fuel Usage: Year 2026

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	19,790	2,075	9.54	5,486	600	9.14	0	0	0.00
LDA	42,344,311	1,374,802	30.80	80,362	1,851	43.40	0	0	0.00	4,728,130	1,752,668	2.70
LDT1	3,398,185	131,817	25.78	363	15	23.92	0	0	0.00	24,949	8,960	2.78
LDT2	21,908,058	876,052	25.01	88,467	2,716	32.57	0	0	0.00	343,057	119,437	2.87
LHD1	1,657,395	113,326	14.62	976,534	46,636	20.94	0	0	0.00	54,881	30,841	1.78
LHD2	247,700	19,476	12.72	422,249	23,820	17.73	0	0	0.00	13,513	7,601	1.78
MCY	330,192	7,779	42.45	0	0	0.00	0	0	0.00	0	0	0.00
MDV	12,768,075	626,769	20.37	177,255	7,260	24.42	0	0	0.00	292,686	105,368	2.78
MH	55,665	11,392	4.89	29,469	2,903	10.15	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	16,902	2,957	5.71	0	0	0.00	0	0	0.00
OBUS	33,711	6,364	5.30	0	0	0.00	0	0	0.00	733	765	0.96
PTO	0	0	0.00	44,948	8,862	5.07	0	0	0.00	915	1,896	0.48
SBUS	31,112	3,471	8.96	15,380	2,069	7.43	20,002	4,608	4.34	599	693	0.86
T6	361,927	69,266	5.23	1,163,540	129,172	9.01	13,433	1,582	8.49	21,163	22,201	0.95
T7	553	125	4.43	1,251,031	202,226	6.19	89,889	14,755	6.09	13,717	24,550	0.56
UBUS	42,376	3,474	12.20	0	0	0.00	111,248	37,358	2.98	78	165	0.47
<b>Total</b>	<b>83,179,262</b>	<b>3,244,113</b>	<b>25.64</b>	<b>4,286,290</b>	<b>432,565</b>	<b>9.91</b>	<b>240,059</b>	<b>58,903</b>	<b>4.08</b>	<b>5,494,420</b>	<b>2,075,146</b>	<b>2.65</b>

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Orange

Calendar Year: 2026

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange	2026	All Other Buses	Aggregate	Aggregate	Diesel	364.8114073	19789.95104	19789.95104	0	0	3246.821525	2.074966085
Orange	2026	All Other Buses	Aggregate	Aggregate	Natural Gas	92.91719861	5486.130001	5486.130001	0	0	826.9630677	0.600318324
Orange	2026	LDA	Aggregate	Aggregate	Gasoline	1049515.92	41577927.11	41577927.11	0	0	4898979.591	1348.191093
Orange	2026	LDA	Aggregate	Aggregate	Diesel	2742.173139	80362.1723	80362.1723	0	0	11498.25795	1.851478704
Orange	2026	LDA	Aggregate	Aggregate	Electricity	81098.87481	3862245.078	0	3862245.078	0	400525.9224	0.1491145368
Orange	2026	LDA	Aggregate	Aggregate	Plug-in Hybrid	35696.79687	1632268.837	766384.0341	865884.803	147606.2551	26.61054862	261523.018
Orange	2026	LDT1	Aggregate	Aggregate	Gasoline	95040.06341	3392265.426	3392265.426	0	0	421984.1489	131.6106754
Orange	2026	LDT1	Aggregate	Aggregate	Diesel	24.49979621	362.8616544	362.8616544	0	0	67.50286897	0.015170689
Orange	2026	LDT1	Aggregate	Aggregate	Electricity	361.8710153	16951.55958	0	16951.55958	1768.990103	0	6544.701086
Orange	2026	LDT1	Aggregate	Aggregate	Plug-in Hybrid	270.687928	13917.21072	5919.6857	7997.525016	1119.294582	0.206100722	2415.490919
Orange	2026	LDT2	Aggregate	Aggregate	Gasoline	536812.5168	21784157.47	21784157.47	0	0	2520480.791	871.7183654
Orange	2026	LDT2	Aggregate	Aggregate	Diesel	2150.46559	88467.05453	88467.05453	0	0	10208.80139	2.716312944
Orange	2026	LDT2	Aggregate	Aggregate	Electricity	5257.386579	188253.2028	0	188253.2028	26659.30339	0	72681.27368
Orange	2026	LDT2	Aggregate	Aggregate	Plug-in Hybrid	5706.320321	278704.4829	123900.7496	154803.7333	23595.63453	4.333629361	46755.34134
Orange	2026	LHD1	Aggregate	Aggregate	Gasoline	41098.7832	1657395.449	1657395.449	0	0	612310.6325	113.3264813
Orange	2026	LHD1	Aggregate	Aggregate	Diesel	23010.07791	976534.0014	976534.0014	0	0	289437.8334	46.63641428
Orange	2026	LHD1	Aggregate	Aggregate	Electricity	815.1958673	54881.04636	0	54881.04636	11396.70188	0	30841.11106
Orange	2026	LHD2	Aggregate	Aggregate	Gasoline	6615.094062	247700.2283	247700.2283	0	0	98555.04503	19.47647629
Orange	2026	LHD2	Aggregate	Aggregate	Diesel	10012.14742	422248.7801	422248.7801	0	0	125940.2192	23.82033186
Orange	2026	LHD2	Aggregate	Aggregate	Electricity	211.0818991	13512.73317	0	13512.73317	2800.081371	0	7600.693106
Orange	2026	MCY	Aggregate	Aggregate	Gasoline	51778.70958	330192.3764	330192.3764	0	0	103557.4192	7.778574027
Orange	2026	MDV	Aggregate	Aggregate	Gasoline	326894.2358	12693098.03	12693098.03	0	0	1516229.941	624.1086297
Orange	2026	MDV	Aggregate	Aggregate	Diesel	4570.655518	177255.4948	177255.4948	0	0	21257.30604	7.259930172
Orange	2026	MDV	Aggregate	Aggregate	Electricity	5641.41152	201874.3361	0	201874.3361	28601.64001	0	77940.15535
Orange	2026	MDV	Aggregate	Aggregate	Plug-in Hybrid	3648.256691	165788.2556	74976.88572	90811.36993	15085.54142	2.660564782	27427.74033
Orange	2026	MH	Aggregate	Aggregate	Gasoline	5656.411647	55665.04345	55665.04345	0	0	565.8674212	11.39189816
Orange	2026	MH	Aggregate	Aggregate	Diesel	3003.794796	29469.38598	29469.38598	0	0	300.3794796	2.903244461
Orange	2026	Motor Coach	Aggregate	Aggregate	Diesel	130.9543581	16901.90221	16901.90221	0	0	3009.331149	2.957474151
Orange	2026	OBUS	Aggregate	Aggregate	Gasoline	819.5446697	33711.35172	33711.35172	0	0	16397.44975	6.36419335
Orange	2026	OBUS	Aggregate	Aggregate	Electricity	9.821208849	732.8008896	0	732.8008896	196.5027467	0	765.2842969
Orange	2026	PTO	Aggregate	Aggregate	Diesel	0	44947.88717	44947.88717	0	0	8.862128643	0
Orange	2026	PTO	Aggregate	Aggregate	Electricity	0	915.2479975	0	915.2479975	0	0	1895.953404
Orange	2026	SBUS	Aggregate	Aggregate	Gasoline	688.5633033	31112.44458	31112.44458	0	0	2754.253213	3.471010776
Orange	2026	SBUS	Aggregate	Aggregate	Diesel	756.207806	15379.61859	15379.61859	0	0	10949.87853	2.069129743
Orange	2026	SBUS	Aggregate	Aggregate	Electricity	19.66639619	599.0783053	0	599.0783053	235.5635237	0	692.7150486
Orange	2026	SBUS	Aggregate	Aggregate	Natural Gas	808.8277787	20001.58816	20001.58816	0	0	11711.82624	4.607682648
Orange	2026	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	9.197205943	599.0064288	599.0064288	0	0	211.3517926	0.063878622
Orange	2026	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.197818415	15.72855393	0	15.72855393	4.545867175	0	16.56713098
Orange	2026	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	12.10786522	823.7739746	823.7739746	0	0	278.2387428	0.087968545
Orange	2026	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	0.230584554	19.53187773	0	19.53187773	5.298833061	0	20.5732312
Orange	2026	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	42.05639022	2131.583654	2131.583654	0	0	966.4558474	0.224017824
Orange	2026	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	1.26234416	71.99866557	0	71.99866557	29.00866879	0	75.83731651
Orange	2026	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	68.31950463	13570.46233	13570.46233	0	0	1569.982216	1.319853958
Orange	2026	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	1.139588869	240.578455	0	240.578455	26.18775221	0	253.4050359
Orange	2026	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.057210546	10.94132941	10.94132941	0	0	1.31469834	0.001079399
Orange	2026	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	2586.043416	86413.55772	86413.55772	0	0	36902.83954	9.732549568
Orange	2026	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	34.09877882	1341.796944	0	1341.796944	486.5895737	0	1406.831565
Orange	2026	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	9.539587441	334.4720394	334.4720394	0	0	136.1299128	0.039930021
Orange	2026	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	2093.730466	70452.59078	70452.59078	0	0	29877.53376	7.909405091
Orange	2026	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	27.52549632	1089.022643	0	1089.022643	392.7888325	0	1141.805722
Orange	2026	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	6.719672057	240.9322593	240.9322593	0	0	95.88972026	0.028481798
Orange	2026	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	6518.815314	218111.2759	218111.2759	0	0	93023.49453	24.59200181
Orange	2026	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	82.57837742	3203.137636	0	3203.137636	1178.393446	0	3358.388282
Orange	2026	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	20.38516577	718.6879902	718.6879902	0	0	290.8963155	0.085161646
Orange	2026	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	855.101694	46087.71776	46087.71776	0	0	12202.30117	4.989020257
Orange	2026	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	4.444552364	217.2036069	0	217.2036069	63.42376223	0	227.7310972
Orange	2026	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	24.61893157	1339.469696	1339.469696	0	0	351.3121536	0.156397681
Orange	2026	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	2201.786653	91362.53169	91362.53169	0	0	25452.6537	10.24473807
Orange	2026	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	33.09459871	1533.144296	0	1533.144296	382.5735611	0	1607.513196
Orange	2026	T6 Instate Other Class 4	Aggregate	Aggregate								

Orange	2026 T6 Utility Class 5	Aggregate	Aggregate	Electricity	3.059997766	132.7708252	0	132.7708252	39.16797141	0	139.6534752
Orange	2026 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	0.619794839	24.65720309	24.65720309	0	7.933373944	0.002757746	0
Orange	2026 T6 Utility Class 6	Aggregate	Aggregate	Diesel	20.02556311	804.5898869	804.5898869	0	256.3272078	0.085267826	0
Orange	2026 T6 Utility Class 6	Aggregate	Aggregate	Electricity	0.584488904	25.36131168	0	25.36131168	7.481457971	0	26.67600587
Orange	2026 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.194604931	7.484106818	7.484106818	0	2.490943123	0.0008411	0
Orange	2026 T6 Utility Class 7	Aggregate	Aggregate	Diesel	22.51661068	1113.755398	1113.755398	0	288.2126167	0.117240893	0
Orange	2026 T6 Utility Class 7	Aggregate	Aggregate	Electricity	0.666881285	40.48458256	0	40.48458256	8.536080452	0	42.58324552
Orange	2026 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.250752597	10.91070534	10.91070534	0	3.209633247	0.001209851	0
Orange	2026 T6TS	Aggregate	Aggregate	Gasoline	7090.881325	361926.9994	361926.9994	0	141874.3536	69.26601079	0
Orange	2026 T6TS	Aggregate	Aggregate	Electricity	50.88473986	4165.412643	0	4165.412643	1018.101875	0	4374.665833
Orange	2026 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1114.634198	226467.1438	226467.1438	0	25614.29386	35.47339112	0
Orange	2026 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	23.50576537	4724.599304	0	4724.599304	540.1624882	0	8463.227113
Orange	2026 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	4.478118547	900.1156392	900.1156392	0	102.9071642	0.157409174	0
Orange	2026 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1013.571423	275042.7231	275042.7231	0	23291.8713	41.48072507	0
Orange	2026 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	432.115432	99868.29538	99868.29538	0	9930.012627	15.51502973	0
Orange	2026 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1549.248632	196150.9589	196150.9589	0	25345.70762	32.75841219	0
Orange	2026 T7 POLA Class 8	Aggregate	Aggregate	Electricity	6.120626687	678.1897633	0	678.1897633	100.1334526	0	1214.172155
Orange	2026 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	17.88459274	2246.260266	2246.260266	0	292.5919372	0.384408237	0
Orange	2026 T7 Public Class 8	Aggregate	Aggregate	Diesel	742.6363792	29997.49481	29997.49481	0	3809.724625	5.166127011	0
Orange	2026 T7 Public Class 8	Aggregate	Aggregate	Electricity	12.26566289	774.161004	0	774.161004	62.92285064	0	1385.193355
Orange	2026 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	279.7460288	13943.75429	13943.75429	0	1435.097128	2.248747782	0
Orange	2026 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Diesel	284.5974388	19517.784	19517.784	0	2680.907873	3.15340163	0
Orange	2026 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Electricity	8.606968028	698.3122191	0	698.3122191	81.07763882	0	1248.976512
Orange	2026 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Natural Gas	18.6356686	1329.782087	1329.782087	0	175.5479982	0.216102638	0
Orange	2026 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1055.257696	60011.47421	60011.47421	0	9940.527498	10.05507641	0
Orange	2026 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	13.02789238	1059.432647	0	1059.432647	122.7227462	0	1894.863725
Orange	2026 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	78.83107725	4797.263307	4797.263307	0	742.5887477	0.836972531	0
Orange	2026 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	2477.30808	130151.8167	130151.8167	0	23336.24211	21.35908998	0
Orange	2026 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	42.06767996	2851.626992	0	2851.626992	396.2775452	0	5100.319081
Orange	2026 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	192.541744	10558.4238	10558.4238	0	1813.743229	1.80231407	0
Orange	2026 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	220.5038576	14317.99521	14317.99521	0	1014.317745	5.323102856	0
Orange	2026 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	12.47925415	772.6671926	0	772.6671926	57.4045691	0	1379.990823
Orange	2026 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	766.5704393	49603.75499	49603.75499	0	3526.224021	7.946606305	0
Orange	2026 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2718.928123	196057.1286	196057.1286	0	39506.02562	31.38783257	0
Orange	2026 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	25.87760544	2095.804151	0	2095.804151	376.0016071	0	3752.747068
Orange	2026 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	89.20321661	6510.001122	6510.001122	0	1296.122737	1.16214513	0
Orange	2026 T7 Utility Class 8	Aggregate	Aggregate	Diesel	79.39724546	3448.680265	3448.680265	0	1016.284742	0.553533348	0
Orange	2026 T7 Utility Class 8	Aggregate	Aggregate	Electricity	0.801111883	50.36790436	0	50.36790436	10.2542321	0	90.12245009
Orange	2026 T7IS	Aggregate	Aggregate	Gasoline	5.642094151	552.7116358	552.7116358	0	112.8870198	0.124867026	0
Orange	2026 T7IS	Aggregate	Aggregate	Electricity	0.044825649	11.55600118	0	11.55600118	0.89687158	0	20.65592366
Orange	2026 UBUS	Aggregate	Aggregate	Gasoline	256.8740368	42376.0564	42376.0564	0	1027.496147	3.473985672	0
Orange	2026 UBUS	Aggregate	Aggregate	Electricity	4.037405551	77.72005682	0	77.72005682	16.1496222	0	165.4036891
Orange	2026 UBUS	Aggregate	Aggregate	Natural Gas	578.8563618	111248.4647	111248.4647	0	2315.425447	37.35819755	0



EMFAC Fuel Usage: Year 2027

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	19,841	2,050	9.68	5,573	603	9.24	0	0	0.00
LDA	42,183,196	1,349,353	31.26	72,324	1,652	43.77	0	0	0.00	5,002,094	1,854,509	2.70
LDT1	3,359,150	128,562	26.13	181	7	24.75	0	0	0.00	31,434	11,281	2.79
LDT2	22,156,656	872,852	25.38	88,904	2,700	32.93	0	0	0.00	399,458	139,512	2.86
LHD1	1,647,637	110,671	14.89	995,052	47,320	21.03	0	0	0.00	91,019	51,230	1.78
LHD2	244,223	18,892	12.93	433,595	24,312	17.83	0	0	0.00	22,491	12,669	1.78
MCY	334,154	7,865	42.49	0	0	0.00	0	0	0.00	0	0	0.00
MDV	12,834,343	620,425	20.69	174,319	7,066	24.67	0	0	0.00	340,852	122,887	2.77
MH	54,533	11,171	4.88	29,338	2,890	10.15	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	16,999	2,936	5.79	0	0	0.00	0	0	0.00
OBUS	32,636	6,073	5.37	0	0	0.00	0	0	0.00	1,154	1,203	0.96
PTO	0	0	0.00	44,891	8,745	5.13	0	0	0.00	1,482	3,071	0.48
SBUS	31,450	3,497	8.99	14,694	1,969	7.46	20,460	4,694	4.36	956	1,106	0.86
T6	343,883	65,465	5.25	1,162,783	128,692	9.04	13,849	1,626	8.52	35,495	37,288	0.95
T7	548	122	4.50	1,264,203	201,773	6.27	92,095	14,890	6.19	22,133	39,682	0.56
UBUS	42,461	3,256	13.04	0	0	0.00	111,470	37,402	2.98	80	171	0.47
<b>Total</b>	<b>83,264,870</b>	<b>3,198,204</b>	<b>26.03</b>	<b>4,317,125</b>	<b>432,113</b>	<b>9.99</b>	<b>243,447</b>	<b>59,215</b>	<b>4.11</b>	<b>5,948,649</b>	<b>2,274,608</b>	<b>2.62</b>

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Orange

Calendar Year: 2027

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange	2027	All Other Buses	Aggregate	Aggregate	Diesel	371.6890688	19841.34329	19841.34329	0	3308.032712	2.05037298	0
Orange	2027	All Other Buses	Aggregate	Aggregate	Natural Gas	96.22385011	5572.787403	5572.787403	0	856.392266	0.603392792	0
Orange	2027	LDA	Aggregate	Aggregate	Gasoline	1043775.809	41402174.22	41402174.22	0	4872251.968	1322.171407	0
Orange	2027	LDA	Aggregate	Aggregate	Diesel	2455.862765	72324.22786	72324.22786	0	10337.70864	1.652262204	0
Orange	2027	LDA	Aggregate	Aggregate	Electricity	86904.1211	4089426.711	0	4089426.711	427431.4574	0	1578856.229
Orange	2027	LDA	Aggregate	Aggregate	Plug-in Hybrid	37476.38962	1693688.99	781021.4536	912667.5359	154964.8711	27.18159793	275652.7977
Orange	2027	LDT1	Aggregate	Aggregate	Gasoline	93827.3378	3351768.879	3351768.879	0	416522.3719	128.3043508	0
Orange	2027	LDT1	Aggregate	Aggregate	Diesel	11.77289151	181.1937183	181.1937183	0	32.8525084	0.007320099	0
Orange	2027	LDT1	Aggregate	Aggregate	Electricity	446.5153511	21261.3118	0	21261.3118	2195.338138	0	8208.621145
Orange	2027	LDT1	Aggregate	Aggregate	Plug-in Hybrid	345.6382808	17553.4455	7381.058493	10172.38701	1429.214291	0.257531014	3072.364062
Orange	2027	LDT2	Aggregate	Aggregate	Gasoline	543469.3082	22020144.82	22020144.82	0	2549564.241	868.0648363	0
Orange	2027	LDT2	Aggregate	Aggregate	Diesel	2178.395085	88903.81695	88903.81695	0	10309.86027	2.699983263	0
Orange	2027	LDT2	Aggregate	Aggregate	Electricity	6350.417939	224424.9867	0	224424.9867	32062.44745	0	86646.56765
Orange	2027	LDT2	Aggregate	Aggregate	Plug-in Hybrid	6479.43822	311543.8729	136510.9878	175032.8851	26792.47704	4.78680113	52865.14811
Orange	2027	LHD1	Aggregate	Aggregate	Gasoline	40902.86203	1647637.185	1647637.185	0	609391.6989	110.6705061	0
Orange	2027	LHD1	Aggregate	Aggregate	Diesel	23584.12171	995051.7389	995051.7389	0	296658.5823	47.32037824	0
Orange	2027	LHD1	Aggregate	Aggregate	Electricity	1389.11065	91018.59866	0	91018.59866	19418.03963	0	51230.26421
Orange	2027	LHD2	Aggregate	Aggregate	Gasoline	6543.090594	244222.6914	244222.6914	0	97482.30064	18.89234936	0
Orange	2027	LHD2	Aggregate	Aggregate	Diesel	10371.194	433595.3221	433595.3221	0	130456.5736	24.31202845	0
Orange	2027	LHD2	Aggregate	Aggregate	Electricity	360.8389761	22491.2628	0	22491.2628	4786.406154	0	12668.88114
Orange	2027	MCY	Aggregate	Aggregate	Gasoline	52507.36673	334153.7498	334153.7498	0	105014.7335	7.864502999	0
Orange	2027	MDV	Aggregate	Aggregate	Gasoline	328296.2492	12751503.06	12751503.06	0	1522194.431	617.4785471	0
Orange	2027	MDV	Aggregate	Aggregate	Diesel	4528.513812	174319.4796	174319.4796	0	20991.88139	7.065867318	0
Orange	2027	MDV	Aggregate	Aggregate	Electricity	6724.905683	237227.8074	0	237227.8074	33934.69456	0	91589.51313
Orange	2027	MDV	Aggregate	Aggregate	Plug-in Hybrid	4138.74125	186464.0296	82839.71767	103624.312	17113.69507	2.946701112	31297.63071
Orange	2027	MH	Aggregate	Aggregate	Gasoline	5494.773608	54533.35177	54533.35177	0	549.6971517	11.17103301	0
Orange	2027	MH	Aggregate	Aggregate	Diesel	3015.208329	29337.83692	29337.83692	0	301.5208329	2.889580714	0
Orange	2027	Motor Coach	Aggregate	Aggregate	Diesel	135.9850046	16998.53797	16998.53797	0	3124.935406	2.935600236	0
Orange	2027	OBUS	Aggregate	Aggregate	Gasoline	799.5744215	32636.05253	32636.05253	0	15997.88503	6.073477703	0
Orange	2027	OBUS	Aggregate	Aggregate	Electricity	15.63862172	1154.463508	0	1154.463508	312.8975434	0	1203.347361
Orange	2027	PTO	Aggregate	Aggregate	Diesel	0	44890.50256	44890.50256	0	0	8.745232988	0
Orange	2027	PTO	Aggregate	Aggregate	Electricity	0	1482.338246	0	1482.338246	0	0	3070.691498
Orange	2027	SBUS	Aggregate	Aggregate	Gasoline	695.8799126	31450.32858	31450.32858	0	2783.519651	3.497434635	0
Orange	2027	SBUS	Aggregate	Aggregate	Diesel	723.187469	14694.20454	14694.20454	0	10471.75455	1.969072882	0
Orange	2027	SBUS	Aggregate	Aggregate	Electricity	31.2997754	956.1003922	0	956.1003922	373.87255	0	1105.540167
Orange	2027	SBUS	Aggregate	Aggregate	Natural Gas	836.1689696	20460.01826	20460.01826	0	12107.72668	4.69411426	0
Orange	2027	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	9.175583402	595.4063397	595.4063397	0	210.8549066	0.063118698	0
Orange	2027	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.32008698	25.37482499	0	25.37482499	7.355598808	0	26.75224104
Orange	2027	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	12.0067881	819.6192179	819.6192179	0	275.9159906	0.087065372	0
Orange	2027	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	0.375892642	31.98090883	0	31.98090883	6.38012921	0	33.71692149
Orange	2027	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	42.80714032	2113.872227	2113.872227	0	983.7080845	0.221011218	0
Orange	2027	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	1.999073355	111.3832686	0	111.3832686	45.93870569	0	117.4294621
Orange	2027	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	68.80760981	13552.52306	13552.52306	0	1581.198873	1.302666016	0
Orange	2027	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	1.8586368	394.8536829	0	394.8536829	42.71147365	0	416.2874387
Orange	2027	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.055473451	10.55049012	10.55049012	0	1.274779895	0.001033136	0
Orange	2027	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	2601.678175	86340.95658	86340.95658	0	37125.94756	9.693273207	0
Orange	2027	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	57.5764946	2256.833474	0	2256.833474	821.5759777	0	2369.63152
Orange	2027	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	10.21426031	358.4378341	358.4378341	0	145.7574946	0.042496167	0
Orange	2027	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	2109.043101	70402.53555	70402.53555	0	30096.04505	7.879860431	0
Orange	2027	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	46.32942023	1823.568209	0	1823.568209	661.1208267	0	1914.711367
Orange	2027	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	7.323971484	262.4540137	262.4540137	0	104.5130731	0.030832024	0
Orange	2027	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	6566.317418	217971.0328	217971.0328	0	93701.34955	24.50086938	0
Orange	2027	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	141.1433355	5461.927975	0	5461.927975	2014.115397	0	5734.918785
Orange	2027	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	22.15866965	783.9315353	783.9315353	0	316.204216	0.092246499	0
Orange	2027	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	877.3483334	46404.97909	46404.97909	0	12519.76072	5.032663093	0
Orange	2027	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	7.435202966	364.0498476	0	364.0498476	106.1003463	0	382.2453023
Orange	2027	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	25.15643864	1343.965129	1343.965129	0	358.9823793	0.156468306	0
Orange	2027	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	2218.711066	91129.83186	91129.83186	0	25648.29992	10.18400153	0
Orange	2027	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	57.08537977	2650.683139	0	2650.683139	659.9069902	0	2783.286886
Orange	2027	T6 Instate Other Class 4	Aggregate	Aggregate	Natural Gas	7.770947639	335.4502027	335.4502027	0	89.83215471	0.039253438	0
Orange	2027	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	5279.223956	221287.3256	221287.3256	0	61027.82894	24.76945709	0
Orange	2027	T6 Instate Other Class 5	Aggregate	Aggregate	Electricity	123.5178052	5787.343617	0	5787.343617	1427.865828	0	6076.862736
Orange	2027	T6 Instate Other Class 5	Aggregate	Aggregate	Natural Gas	17.40031892	762.2279324	762.2279324	0	201.1476867	0.088091426	0
Orange	2027	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	4327.921205	180205.3952	180205.3952	0	50030.76913	20.1244658	0
Orange	2027	T6 Instate Other Class 6	Aggregate	Aggregate	Electricity	106.244464	4914.601195	0	4914.601195	1228.186004	0	5160.460281
Orange	2027	T6 Instate Other Class 6	Aggregate	Aggregate	Natural Gas	15.05338965	650.8347208					

Orange	2027 T6 Utility Class 5	Aggregate	Aggregate	Electricity	4.890149529	211.8718901	0	211.8718901	62.59391397	0	223.1360646
Orange	2027 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	0.608520002	24.16195481	24.16195481	0	7.789056023	0.002684207	0
Orange	2027 T6 Utility Class 6	Aggregate	Aggregate	Diesel	19.81977959	794.6791377	794.6791377	0	253.6931787	0.084042663	0
Orange	2027 T6 Utility Class 6	Aggregate	Aggregate	Electricity	0.933903039	40.4635888	0	40.4635888	11.9539589	0	42.61483654
Orange	2027 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.180029721	6.866375296	6.866375296	0	2.304380429	0.000767992	0
Orange	2027 T6 Utility Class 7	Aggregate	Aggregate	Diesel	22.16512003	1098.170419	1098.170419	0	283.7135364	0.115265234	0
Orange	2027 T6 Utility Class 7	Aggregate	Aggregate	Electricity	1.055276134	63.37559445	0	63.37559445	13.50753451	0	66.74495956
Orange	2027 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.228344138	9.968342573	9.968342573	0	2.922804965	0.001099161	0
Orange	2027 T6TS	Aggregate	Aggregate	Gasoline	6899.471297	343882.9475	343882.9475	0	138044.6217	65.46522009	0
Orange	2027 T6TS	Aggregate	Aggregate	Electricity	81.47799046	6597.977682	0	6597.977682	1630.211633	0	6938.741137
Orange	2027 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1123.270795	227292.9946	227292.9946	0	25812.76288	35.06570634	0
Orange	2027 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	36.83552535	7551.112092	0	7551.112092	846.4803726	0	13544.81375
Orange	2027 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	4.413461337	884.4038239	884.4038239	0	101.4213415	0.1528795	0
Orange	2027 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1028.194189	279352.3728	279352.3728	0	23627.90246	41.16052162	0
Orange	2027 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	441.3585966	101433.1336	101433.1336	0	10142.42055	15.43767994	0
Orange	2027 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1565.242038	203235.862	203235.862	0	25607.35974	33.89279835	0
Orange	2027 T7 POLA Class 8	Aggregate	Aggregate	Electricity	10.25233485	1191.293586	0	1191.293586	167.7281981	0	2136.016714
Orange	2027 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	19.65528744	2534.028446	2534.028446	0	321.5605025	0.426573337	0
Orange	2027 T7 Public Class 8	Aggregate	Aggregate	Diesel	720.464846	29102.53707	29102.53707	0	3695.98466	4.986877357	0
Orange	2027 T7 Public Class 8	Aggregate	Aggregate	Electricity	19.4232239	1211.354986	0	1211.354986	99.64113859	0	2170.961024
Orange	2027 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	298.4485783	14645.73892	14645.73892	0	1531.041207	2.346365764	0
Orange	2027 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Diesel	281.9818804	19194.86585	19194.86585	0	2656.269314	3.077073094	0
Orange	2027 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Electricity	13.48252785	1086.881143	0	1086.881143	127.0054124	0	1948.43946
Orange	2027 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Natural Gas	18.9570775	1342.390377	1342.390377	0	178.5756701	0.215595062	0
Orange	2027 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1072.386968	59443.08072	59443.08072	0	10101.88524	9.924212072	0
Orange	2027 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	23.21761969	1880.538042	0	1880.538042	218.7099775	0	3371.219152
Orange	2027 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	80.90685613	4783.798154	4783.798154	0	762.1425847	0.828024519	0
Orange	2027 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	2566.741112	130693.3529	130693.3529	0	24178.70128	21.380438	0
Orange	2027 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	67.50131726	4497.932518	0	4497.932518	635.8624085	0	8063.392451
Orange	2027 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	200.655578	10620.05576	10620.05576	0	1890.175544	1.803015122	0
Orange	2027 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	201.180016	13062.66306	13062.66306	0	925.4280737	4.846983122	0
Orange	2027 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	19.66795143	1221.810914	0	1221.810914	90.47257659	0	2187.490435
Orange	2027 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	784.120537	50763.28307	50763.28307	0	3606.95447	7.956836694	0
Orange	2027 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2828.175268	197958.6405	197958.6405	0	41093.38664	31.45129418	0
Orange	2027 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	42.06709991	3389.713712	0	3389.713712	611.2349617	0	6075.816995
Orange	2027 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	92.52712444	6521.447081	6521.447081	0	1344.419118	1.16028273	0
Orange	2027 T7 Utility Class 8	Aggregate	Aggregate	Diesel	79.97384173	3433.969045	3433.969045	0	1023.665174	0.54972217	0
Orange	2027 T7 Utility Class 8	Aggregate	Aggregate	Electricity	1.35705402	84.18977497	0	84.18977497	17.37029145	0	150.8828726
Orange	2027 T7IS	Aggregate	Aggregate	Gasoline	5.373929496	547.76404	547.76404	0	107.5215814	0.121762202	0
Orange	2027 T7IS	Aggregate	Aggregate	Electricity	0.072471287	18.29358992	0	18.29358992	1.450005515	0	32.76618674
Orange	2027 UBUS	Aggregate	Aggregate	Gasoline	257.3894016	42461.24538	42461.24538	0	1029.557606	3.256425155	0
Orange	2027 UBUS	Aggregate	Aggregate	Electricity	4.076617891	80.22081704	0	80.22081704	16.30647157	0	170.6688483
Orange	2027 UBUS	Aggregate	Aggregate	Natural Gas	579.9899791	111469.7643	111469.7643	0	2319.959916	37.40176332	0



EMFAC Fuel Usage: Year 2028

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	19,904	2,033	9.79	5,647	605	9.34	0	0	0.00
LDA	42,055,839	1,324,606	31.75	64,953	1,465	44.33	0	0	0.00	5,259,175	1,950,338	2.70
LDT1	3,322,377	125,303	26.51	106	4	25.81	0	0	0.00	38,866	13,948	2.79
LDT2	22,380,125	868,365	25.77	89,168	2,673	33.36	0	0	0.00	458,764	160,687	2.86
LHD1	1,631,919	107,911	15.12	1,007,078	47,698	21.11	0	0	0.00	138,806	78,128	1.78
LHD2	240,108	18,305	13.12	441,952	24,642	17.94	0	0	0.00	34,416	19,386	1.78
MCY	337,881	7,932	42.60	0	0	0.00	0	0	0.00	0	0	0.00
MDV	12,894,957	613,459	21.02	171,182	6,849	25.00	0	0	0.00	389,103	140,461	2.77
MH	53,472	10,952	4.88	29,192	2,876	10.15	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	17,092	2,918	5.86	0	0	0.00	0	0	0.00
OBUS	31,514	5,808	5.43	0	0	0.00	0	0	0.00	1,791	1,867	0.96
PTO	0	0	0.00	44,588	8,586	5.19	0	0	0.00	2,319	4,805	0.48
SBUS	31,667	3,511	9.02	13,991	1,867	7.49	20,823	4,762	4.37	1,492	1,725	0.86
T6	324,620	61,407	5.29	1,155,990	127,354	9.08	14,162	1,662	8.52	57,294	60,187	0.95
T7	542	118	4.57	1,275,057	200,546	6.36	93,896	15,025	6.25	33,845	60,680	0.56
UBUS	42,546	3,263	13.04	0	0	0.00	111,678	37,334	2.99	96	204	0.47
<b>Total</b>	<b>83,347,567</b>	<b>3,150,939</b>	<b>26.45</b>	<b>4,330,251</b>	<b>429,509</b>	<b>10.08</b>	<b>246,206</b>	<b>59,388</b>	<b>4.15</b>	<b>6,415,969</b>	<b>2,492,415</b>	<b>2.57</b>

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Orange

Calendar Year: 2028

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange	2028	All Other Buses	Aggregate	Aggregate	Diesel	377.6499467	19904.03366	19904.03366	0	3361.084526	2.03369829	0
Orange	2028	All Other Buses	Aggregate	Aggregate	Natural Gas	99.23244446	5646.857996	5646.857996	0	883.1687557	0.604829383	0
Orange	2028	LDA	Aggregate	Aggregate	Gasoline	1038995.892	41263326.11	41263326.11	0	4850372.514	1297.002877	0
Orange	2028	LDA	Aggregate	Aggregate	Diesel	2171.612574	64952.63275	64952.63275	0	9216.032668	1.465292455	0
Orange	2028	LDA	Aggregate	Aggregate	Electricity	92523.87745	4305755.793	0	4305755.793	453346.0319	0	1662377.109
Orange	2028	LDA	Aggregate	Aggregate	Plug-in Hybrid	39072.49176	1745931.998	792512.4185	953419.5792	161564.7534	27.60271216	287961.1294
Orange	2028	LDT1	Aggregate	Aggregate	Gasoline	92684.36641	3313373.272	3313373.272	0	411372.6436	124.9882378	0
Orange	2028	LDT1	Aggregate	Aggregate	Diesel	6.507772921	106.1649511	106.1649511	0	18.48953657	0.004113234	0
Orange	2028	LDT1	Aggregate	Aggregate	Electricity	546.4474323	26285.09612	0	26285.09612	2696.832429	0	10148.21653
Orange	2028	LDT1	Aggregate	Aggregate	Plug-in Hybrid	430.0680074	21585.23805	9003.928319	12581.30973	1778.331211	0.314343894	3799.930521
Orange	2028	LDT2	Aggregate	Aggregate	Gasoline	549816.574	22230739.4	22230739.4	0	2576807.596	863.1214574	0
Orange	2028	LDT2	Aggregate	Aggregate	Diesel	2199.451121	89167.78654	89167.78654	0	10380.95949	2.672754337	0
Orange	2028	LDT2	Aggregate	Aggregate	Electricity	7541.699421	263248.3292	0	263248.3292	37922.71052	0	101635.5821
Orange	2028	LDT2	Aggregate	Aggregate	Plug-in Hybrid	7280.311558	344900.8933	149385.3025	195515.5909	30104.08829	5.243321264	59051.53574
Orange	2028	LHD1	Aggregate	Aggregate	Gasoline	40643.11047	1631919.233	1631919.233	0	605521.7877	107.9106307	0
Orange	2028	LHD1	Aggregate	Aggregate	Diesel	24055.01767	1007077.961	1007077.961	0	302581.861	47.69752071	0
Orange	2028	LHD1	Aggregate	Aggregate	Electricity	2171.230816	138805.7173	0	138805.7173	30348.60724	0	78127.54043
Orange	2028	LHD2	Aggregate	Aggregate	Gasoline	6462.82446	240107.6	240107.6	0	96286.45484	18.30522632	0
Orange	2028	LHD2	Aggregate	Aggregate	Diesel	10682.49761	441951.9889	441951.9889	0	134372.3813	24.64155253	0
Orange	2028	LHD2	Aggregate	Aggregate	Electricity	565.7731753	34416.31633	0	34416.31633	7504.464058	0	19386.02774
Orange	2028	MCY	Aggregate	Aggregate	Gasoline	53242.81767	337881.2058	337881.2058	0	106485.6353	7.932212537	0
Orange	2028	MDV	Aggregate	Aggregate	Gasoline	329659.4277	1280464.08	1280464.08	0	1527928.351	610.2369103	0
Orange	2028	MDV	Aggregate	Aggregate	Diesel	4475.198106	171182.0914	171182.0914	0	20685.77449	6.848635184	0
Orange	2028	MDV	Aggregate	Aggregate	Electricity	7844.227849	272931.8885	0	272931.8885	39405.23885	0	105374.2353
Orange	2028	MDV	Aggregate	Aggregate	Plug-in Hybrid	4626.528268	206664.2109	90492.82387	116171.387	19130.69439	3.221774448	35087.22134
Orange	2028	MH	Aggregate	Aggregate	Gasoline	5341.240362	53472.45404	53472.45404	0	534.3376858	10.95233594	0
Orange	2028	MH	Aggregate	Aggregate	Diesel	3021.622086	29192.12881	29192.12881	0	302.1622086	2.876155506	0
Orange	2028	Motor Coach	Aggregate	Aggregate	Diesel	140.4254601	17091.52282	17091.52282	0	3226.977073	2.917765811	0
Orange	2028	OBUS	Aggregate	Aggregate	Gasoline	782.1654895	31513.71967	31513.71967	0	15649.56711	5.807835831	0
Orange	2028	OBUS	Aggregate	Aggregate	Electricity	24.44236773	1790.777584	0	1790.777584	489.0428935	0	1866.605107
Orange	2028	PTO	Aggregate	Aggregate	Diesel	0	44587.69832	44587.69832	0	0	8.585723443	0
Orange	2028	PTO	Aggregate	Aggregate	Electricity	0	2319.452931	0	2319.452931	0	0	4804.790279
Orange	2028	SBUS	Aggregate	Aggregate	Gasoline	700.6254389	31666.65086	31666.65086	0	2802.501756	3.510852764	0
Orange	2028	SBUS	Aggregate	Aggregate	Diesel	688.6435349	13991.01927	13991.01927	0	9971.558385	1.866988828	0
Orange	2028	SBUS	Aggregate	Aggregate	Electricity	48.55751581	1491.992111	0	1491.992111	578.3095953	0	1725.192481
Orange	2028	SBUS	Aggregate	Aggregate	Natural Gas	860.7431203	20823.36815	20823.36815	0	12463.56038	4.761519927	0
Orange	2028	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	9.05114051	587.2987658	587.2987658	0	207.9952089	0.061870545	0
Orange	2028	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.496982339	39.5880476	0	39.5880476	11.42065415	0	41.7369969
Orange	2028	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	11.77357167	809.3362317	809.3362317	0	270.5566771	0.085462285	0
Orange	2028	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	50.63974711	50.63974711	0	50.63974711	13.51282807	0	53.38861338
Orange	2028	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	43.13045353	2079.269811	2079.269811	0	991.1378221	0.216220354	0
Orange	2028	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	3.046533488	167.8720258	0	167.8720258	70.00933955	0	176.9845861
Orange	2028	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	69.08542986	13490.71788	13490.71788	0	1587.583178	1.279361423	0
Orange	2028	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	2.790696902	594.3176023	0	594.3176023	64.1302148	0	626.5788143
Orange	2028	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.053728863	10.1739421	10.1739421	0	1.234689283	0.000991226	0
Orange	2028	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	2601.020856	85803.91485	85803.91485	0	37116.56762	9.587270584	0
Orange	2028	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	92.78126115	3648.262907	0	3648.262907	1323.988597	0	3830.605525
Orange	2028	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	10.81406845	378.9727522	378.9727522	0	154.3167568	0.044802012	0
Orange	2028	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	2110.778711	69970.17585	69970.17585	0	30120.81221	7.79575165	0
Orange	2028	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	74.7591634	2949.910838	0	2949.910838	1066.813262	0	3097.349353
Orange	2028	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	7.877132209	281.4271089	281.4271089	0	112.4066766	0.032988123	0
Orange	2028	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	6570.920804	216668.3286	216668.3286	0	93767.03988	24.24018878	0
Orange	2028	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	229.0707739	8912.062995	0	8912.062995	3268.839944	0	9357.49386
Orange	2028	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	23.78464016	841.7698789	841.7698789	0	339.4068151	0.098779067	0
Orange	2028	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	899.3585733	46609.4465	46609.4465	0	12833.84684	5.055608191	0
Orange	2028	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	12.91311901	635.6327147	0	635.6327147	184.2702083	0	667.4020627
Orange	2028	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	25.63788293	1341.126761	1341.126761	0	365.8525894	0.156255041	0
Orange	2028	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	2223.817013	90323.11843	90323.11843	0	25707.32467	10.04342773	0
Orange	2028	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	92.97246556	4354.551899	0	4354.551899	1074.761702	0	4572.393817
Orange	2028	T6 Instate Other Class 4	Aggregate									

Orange	2028 T6 Utility Class 5	Aggregate	Aggregate	Electricity	7.601672608	328.9400595	0	328.9400595	97.30140938	0	346.4281663
Orange	2028 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	0.59278529	23.50128632	23.50128632	0	7.587651717	0.00260036	0
Orange	2028 T6 Utility Class 6	Aggregate	Aggregate	Diesel	19.43136508	777.5459777	777.5459777	0	248.721473	0.081905665	0
Orange	2028 T6 Utility Class 6	Aggregate	Aggregate	Electricity	1.449258633	62.71308107	0	62.71308107	18.55051051	0	66.04722363
Orange	2028 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.165797947	6.281143663	6.281143663	0	2.122213727	0.000700642	0
Orange	2028 T6 Utility Class 7	Aggregate	Aggregate	Diesel	21.6399361	1071.90997	1071.90997	0	276.9911821	0.112000747	0
Orange	2028 T6 Utility Class 7	Aggregate	Aggregate	Electricity	1.613176203	96.80966206	0	96.80966206	20.6486554	0	101.9565502
Orange	2028 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.20705074	9.09899027	9.09899027	0	2.650249471	0.000999759	0
Orange	2028 T6TS	Aggregate	Aggregate	Gasoline	6678.491886	324620.0907	324620.0907	0	133623.2656	61.40701597	0
Orange	2028 T6TS	Aggregate	Aggregate	Electricity	127.5289171	10247.21038	0	10247.21038	2551.598574	0	10776.44449
Orange	2028 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1128.292707	227400.2811	227400.2811	0	25928.16642	34.48189355	0
Orange	2028 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	53.64753285	11153.86906	0	11153.86906	1232.820305	0	20007.26214
Orange	2028 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	4.340877207	867.9950177	867.9950177	0	99.75335821	0.148445473	0
Orange	2028 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1042.162717	283729.5506	283729.5506	0	23948.89923	40.76741934	0
Orange	2028 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	449.9746376	103022.4914	103022.4914	0	10340.41717	15.32935054	0
Orange	2028 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1564.769497	210236.4101	210236.4101	0	25599.62898	34.88951926	0
Orange	2028 T7 POLA Class 8	Aggregate	Aggregate	Electricity	16.07981098	1967.156649	0	1967.156649	263.0657077	0	3527.156975
Orange	2028 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	21.68151394	2894.917147	2894.917147	0	354.709568	0.479283237	0
Orange	2028 T7 Public Class 8	Aggregate	Aggregate	Diesel	693.2770903	28002.28418	28002.28418	0	3556.511473	4.771265277	0
Orange	2028 T7 Public Class 8	Aggregate	Aggregate	Electricity	30.79260619	1911.098439	0	1911.098439	157.9660698	0	3425.024266
Orange	2028 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	316.5018127	15288.18946	15288.18946	0	1623.654299	2.441414549	0
Orange	2028 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Diesel	277.1832614	18722.60325	18722.60325	0	2611.066322	2.973249941	0
Orange	2028 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Electricity	20.58335603	1663.446491	0	1663.446491	193.8952138	0	2982.041599
Orange	2028 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Natural Gas	19.06678782	1338.20156	1338.20156	0	179.6091413	0.213369138	0
Orange	2028 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1084.915788	58621.2805	58621.2805	0	10219.90672	9.730248406	0
Orange	2028 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	37.4331775	3053.791972	0	3053.791972	352.6205321	0	5474.498123
Orange	2028 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	82.47154741	4738.40397	4738.40397	0	776.8819766	0.816334791	0
Orange	2028 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	2644.554405	130523.0958	130523.0958	0	24911.7025	21.24695374	0
Orange	2028 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	105.3380464	6963.99012	0	6963.99012	992.2843974	0	12484.26586
Orange	2028 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	207.5425137	10608.97601	10608.97601	0	1955.050479	1.797640358	0
Orange	2028 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	182.6918569	11862.00519	11862.00519	0	840.3825419	4.399733492	0
Orange	2028 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	30.1706418	1885.773831	0	1885.773831	138.7849523	0	3376.228
Orange	2028 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	797.4955053	51650.01928	51650.01928	0	3668.479325	7.972573992	0
Orange	2028 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2926.157845	199536.0734	199536.0734	0	42517.07348	31.41404665	0
Orange	2028 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	63.52624382	5081.061983	0	5081.061983	923.0363228	0	9107.436608
Orange	2028 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	95.23425281	6509.781887	6509.781887	0	1383.753693	1.155788338	0
Orange	2028 T7 Utility Class 8	Aggregate	Aggregate	Diesel	79.82118679	3400.504439	3400.504439	0	1021.711191	0.542100413	0
Orange	2028 T7 Utility Class 8	Aggregate	Aggregate	Electricity	2.213002904	136.5866365	0	136.5866365	28.32643717	0	244.7872568
Orange	2028 T7IS	Aggregate	Aggregate	Gasoline	5.168598081	541.7999038	541.7999038	0	103.4133104	0.118465212	0
Orange	2028 T7IS	Aggregate	Aggregate	Electricity	0.114935358	28.54445204	0	28.54445204	2.299626639	0	51.12680724
Orange	2028 UBUS	Aggregate	Aggregate	Gasoline	257.9047648	42546.43435	42546.43435	0	1031.619059	3.26298699	0
Orange	2028 UBUS	Aggregate	Aggregate	Electricity	1.844789609	95.88250074	0	95.88250074	7.379158437	0	203.9888969
Orange	2028 UBUS	Aggregate	Aggregate	Natural Gas	583.3946385	111677.9029	111677.9029	0	2333.578554	37.33431172	0



EMFAC Fuel Usage: Year 2029

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	19,987	2,020	9.89	5,697	605	9.42	0	0	0.00
LDA	41,950,466	1,302,844	32.20	58,348	1,300	44.87	0	0	0.00	5,502,925	2,041,477	2.70
LDT1	3,288,655	122,310	26.89	56	2	26.17	0	0	0.00	47,280	16,974	2.79
LDT2	22,577,608	864,182	26.13	89,349	2,646	33.77	0	0	0.00	520,659	182,850	2.85
LHD1	1,609,504	104,949	15.34	1,013,330	47,826	21.19	0	0	0.00	197,245	111,021	1.78
LHD2	235,312	17,700	13.29	447,486	24,829	18.02	0	0	0.00	49,072	27,641	1.78
MCY	341,399	7,998	42.69	0	0	0.00	0	0	0.00	0	0	0.00
MDV	12,951,234	607,181	21.33	168,243	6,647	25.31	0	0	0.00	437,440	158,075	2.77
MH	52,457	10,743	4.88	29,056	2,864	10.15	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	17,185	2,900	5.93	0	0	0.00	0	0	0.00
OBUS	30,255	5,526	5.48	0	0	0.00	0	0	0.00	2,640	2,752	0.96
PTO	0	0	0.00	44,033	8,388	5.25	0	0	0.00	3,416	7,077	0.48
SBUS	31,754	3,510	9.05	13,265	1,762	7.53	21,089	4,809	4.39	2,214	2,560	0.86
T6	304,742	57,279	5.32	1,142,312	125,255	9.12	14,404	1,691	8.52	87,359	91,768	0.95
T7	533	115	4.65	1,283,903	199,042	6.45	95,070	15,069	6.31	48,676	87,269	0.56
UBUS	42,629	3,269	13.04	0	0	0.00	111,673	37,371	2.99	327	696	0.47
<b>Total</b>	<b>83,416,548</b>	<b>3,107,606</b>	<b>26.84</b>	<b>4,326,553</b>	<b>425,480</b>	<b>10.17</b>	<b>247,933</b>	<b>59,544</b>	<b>4.16</b>	<b>6,899,254</b>	<b>2,730,160</b>	<b>2.53</b>

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Orange

Calendar Year: 2029

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange	2029	All Other Buses	Aggregate	Aggregate	Diesel	382.9055396	19987.05782	19987.05782	0	3407.859303	2.020034089	0
Orange	2029	All Other Buses	Aggregate	Aggregate	Natural Gas	101.5128518	5697.140521	5697.140521	0	903.4643814	0.604629293	0
Orange	2029	LDA	Aggregate	Aggregate	Gasoline	1034856.174	41149375.45	41149375.45	0	4831959.143	1274.922527	0
Orange	2029	LDA	Aggregate	Aggregate	Diesel	1925.877657	58348.44754	58348.44754	0	8229.360616	1.300354132	0
Orange	2029	LDA	Aggregate	Aggregate	Electricity	98016.32358	4514188.416	0	4514188.416	478573.8303	0	1742849.305
Orange	2029	LDA	Aggregate	Aggregate	Plug-in Hybrid	40493.97117	1789827.298	801090.9793	988736.3183	167442.5708	27.92183472	298627.8372
Orange	2029	LDT1	Aggregate	Aggregate	Gasoline	91581.52842	3277866.345	3277866.345	0	406550.9974	121.9336008	0
Orange	2029	LDT1	Aggregate	Aggregate	Diesel	2.902217211	55.85633946	55.85633946	0	8.800510802	0.002134382	0
Orange	2029	LDT1	Aggregate	Aggregate	Electricity	662.9227227	32054.50283	0	32054.50283	3278.766565	0	12375.6837
Orange	2029	LDT1	Aggregate	Aggregate	Plug-in Hybrid	524.2522056	26014.61978	10788.81563	15225.80414	2167.78287	0.376872534	4598.646653
Orange	2029	LDT2	Aggregate	Aggregate	Gasoline	555722.2366	22415240.23	22415240.23	0	2601799.259	858.477667	0
Orange	2029	LDT2	Aggregate	Aggregate	Diesel	2216.820715	89349.39377	89349.39377	0	10434.57417	2.645889939	0
Orange	2029	LDT2	Aggregate	Aggregate	Electricity	8828.976102	304521.1035	0	304521.1035	44223.7459	0	117570.2794
Orange	2029	LDT2	Aggregate	Aggregate	Plug-in Hybrid	8103.093235	378506.3844	162368.0922	216138.2922	33506.29053	5.704204888	65280.20621
Orange	2029	LHD1	Aggregate	Aggregate	Gasoline	40268.54793	1609503.505	1609503.505	0	599941.3641	104.948662	0
Orange	2029	LHD1	Aggregate	Aggregate	Diesel	24434.47216	1013330.39	1013330.39	0	307354.9212	47.8258656	0
Orange	2029	LHD1	Aggregate	Aggregate	Electricity	3159.739873	197245.2106	0	197245.2106	44160.44382	0	111020.6576
Orange	2029	LHD2	Aggregate	Aggregate	Gasoline	6367.767391	235311.5961	235311.5961	0	94870.24615	17.70025781	0
Orange	2029	LHD2	Aggregate	Aggregate	Diesel	10948.49634	447485.6852	447485.6852	0	137718.3107	24.82858777	0
Orange	2029	LHD2	Aggregate	Aggregate	Electricity	825.914217	49071.70376	0	49071.70376	10954.10094	0	27641.13103
Orange	2029	MCY	Aggregate	Aggregate	Gasoline	53993.0701	341399.2508	341399.2508	0	107986.1402	7.997771221	0
Orange	2029	MDV	Aggregate	Aggregate	Gasoline	331005.2666	12853071.73	12853071.73	0	1533580.051	603.6832554	0
Orange	2029	MDV	Aggregate	Aggregate	Diesel	4422.111559	168242.7577	168242.7577	0	20389.51482	6.646867557	0
Orange	2029	MDV	Aggregate	Aggregate	Electricity	8994.905126	308794.0816	0	308794.0816	44989.64087	0	119220.0016
Orange	2029	MDV	Aggregate	Aggregate	Plug-in Hybrid	5123.004283	226808.5696	98162.23747	128646.3322	21183.62271	3.497796744	38855.02659
Orange	2029	MH	Aggregate	Aggregate	Gasoline	5192.597132	52456.55971	52456.55971	0	519.4674171	10.74280936	0
Orange	2029	MH	Aggregate	Aggregate	Diesel	3027.333223	29055.74108	29055.74108	0	302.7333223	2.863629808	0
Orange	2029	Motor Coach	Aggregate	Aggregate	Diesel	143.9169713	17185.0163	17185.0163	0	3307.212	2.900318192	0
Orange	2029	OBUS	Aggregate	Aggregate	Gasoline	761.1596295	30255.30829	30255.30829	0	15229.28187	5.525730761	0
Orange	2029	OBUS	Aggregate	Aggregate	Electricity	36.31806959	2640.030273	0	2640.030273	726.6519364	0	2751.818001
Orange	2029	PTO	Aggregate	Aggregate	Diesel	0	44032.74944	44032.74944	0	0	8.387872929	0
Orange	2029	PTO	Aggregate	Aggregate	Electricity	0	3416.194041	0	3416.194041	0	0	7076.710072
Orange	2029	SBUS	Aggregate	Aggregate	Gasoline	702.653337	31753.64333	31753.64333	0	2810.613348	3.510382783	0
Orange	2029	SBUS	Aggregate	Aggregate	Diesel	651.9418709	13265.18631	13265.18631	0	9440.118291	1.761992045	0
Orange	2029	SBUS	Aggregate	Aggregate	Electricity	71.74051726	2213.73253	0	2213.73253	853.411093	0	2559.741896
Orange	2029	SBUS	Aggregate	Aggregate	Natural Gas	882.3732596	21088.64613	21088.64613	0	12776.7648	4.80915817	0
Orange	2029	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	8.818701859	573.8086557	573.8086557	0	202.6537687	0.060053054	0
Orange	2029	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	0.738959332	59.24385841	0	59.24385841	16.98128545	0	62.45977977
Orange	2029	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	11.42228988	791.8119764	791.8119764	0	262.4842215	0.083087481	0
Orange	2029	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	0.879222422	76.62223509	0	76.62223509	20.20453126	0	80.78150306
Orange	2029	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	42.95705179	2025.585429	2025.585429	0	987.1530502	0.209546549	0
Orange	2029	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	4.456367889	243.6580114	0	243.6580114	102.4073341	0	256.8844457
Orange	2029	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	68.97746579	13387.42469	13387.42469	0	1585.102164	1.253367523	0
Orange	2029	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	3.925811078	836.6570649	0	836.6570649	90.21513858	0	882.0731367
Orange	2029	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.051556004	9.760101585	9.760101585	0	1.184756972	0.000946122	0
Orange	2029	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	2581.637504	84724.51285	84724.51285	0	36839.96718	9.420603636	0
Orange	2029	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	141.940417	5595.217777	0	5595.217777	2025.489751	0	5874.870502
Orange	2029	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	11.30330664	394.9477783	394.9477783	0	161.2981857	0.046589195	0
Orange	2029	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	2097.985113	69110.08666	69110.08666	0	29938.24757	7.664197141	0
Orange	2029	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	114.1650744	4514.70106	0	4514.70106	1629.135612	0	4740.348836
Orange	2029	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	8.346010379	296.6943617	296.6943617	0	119.0975681	0.03472702	0
Orange	2029	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	6526.409794	213987.5316	213987.5316	0	93131.86776	23.82465728	0
Orange	2029	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	352.4133026	13772.47653	0	13772.47653	5028.937829	0	14460.83411
Orange	2029	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	25.17146237	889.1124625	889.1124625	0	359.196768	0.104130728	0
Orange	2029	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	919.0965034	46722.36685	46722.36685	0	13115.5071	5.071415954	0
Orange	2029	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	19.74512368	992.8236589	0	992.8236589	281.762915	0	1042.445649
Orange	2029	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	26.1814084	1348.881643	1348.881643	0	373.6086979	0.157231984	0
Orange	2029	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	2214.241211	88855.21703	88855.21703	0	25596.6284	9.827912088	0
Orange	2029	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	142.7158886	6733.430002	0	6733.430002	1649.795673	0	7070.278279
Orange	2029	T6 Instate Other Class 4	Aggregate	Aggregate	Natural Gas	8.992906535	387.7642695	387.7642695	0	103.9579995	0.044922609	0
Orange	2029	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	5317.429784	216143.448	216143.448	0	61469.4883	23.94663678	0
Orange	2029	T6 Instate Other Class 5	Aggregate	Aggregate	Electricity	322.1547174	15304.62849	0	15304.62849	3724.108533	0	16070.26171
Orange	2029	T6 Instate Other Class 5	Aggregate	Aggregate	Natural Gas	20.42382531	892.6077209	892.6077209	0	236.0994206	0.102396038	0
Orange	2029	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	4345.405053	175984.9471	175984.9471	0	50232.88241	19.45388282	0
Orange	2029	T6 Instate Other Class 6	Aggregate	Aggregate	Electricity	270.0139535	12706.68893	0	12706.68893	3121.361303	0	13342.35698
Orange	2029	T6 Instate Other Class 6	Aggregate	Aggregate	Natural Gas	62.58301135	2533.5					

Orange	2029 T6 Utility Class 5	Aggregate	Aggregate	Electricity	11.15014445	481.8623002	0	481.8623002	142.721849	0	507.4805218
Orange	2029 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	0.572767065	22.67785815	22.67785815	0	7.331418432	0.002500545	0
Orange	2029 T6 Utility Class 6	Aggregate	Aggregate	Diesel	18.87084848	753.5503461	753.5503461	0	241.5468606	0.079051211	0
Orange	2029 T6 Utility Class 6	Aggregate	Aggregate	Electricity	2.121404463	91.67749678	0	91.67749678	27.15397713	0	96.55153325
Orange	2029 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.151993071	5.729014224	5.729014224	0	1.945511313	0.000637297	0
Orange	2029 T6 Utility Class 7	Aggregate	Aggregate	Diesel	20.94255818	1035.06007	1035.06007	0	268.0647446	0.107674244	0
Orange	2029 T6 Utility Class 7	Aggregate	Aggregate	Electricity	2.345671905	140.6172129	0	140.6172129	30.02460039	0	148.0931306
Orange	2029 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.186917413	8.286373597	8.286373597	0	2.392542882	0.000907281	0
Orange	2029 T6TS	Aggregate	Aggregate	Gasoline	6434.040691	304742.1499	304742.1499	0	128732.2861	57.27871773	0
Orange	2029 T6TS	Aggregate	Aggregate	Electricity	189.4689607	15101.12899	0	15101.12899	3790.894965	0	15881.05174
Orange	2029 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1129.190783	226856.6267	226856.6267	0	25948.8042	33.80866615	0
Orange	2029 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	73.67518728	15461.6025	0	15461.6025	1693.055804	0	27734.26266
Orange	2029 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	4.284507784	855.4261337	855.4261337	0	98.45798888	0.144813679	0
Orange	2029 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1055.869133	288175.3144	288175.3144	0	24263.87267	40.49449931	0
Orange	2029 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	457.5036262	104636.7528	104636.7528	0	10513.43333	15.22888881	0
Orange	2029 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1552.409729	217093.4126	217093.4126	0	25397.42317	35.78146561	0
Orange	2029 T7 POLA Class 8	Aggregate	Aggregate	Electricity	23.78667087	3067.567534	0	3067.567534	389.1499355	0	5500.218922
Orange	2029 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	23.95244581	3331.506939	3331.506939	0	391.8620135	0.541997263	0
Orange	2029 T7 Public Class 8	Aggregate	Aggregate	Diesel	670.5309652	26979.61095	26979.61095	0	3439.823851	4.576802778	0
Orange	2029 T7 Public Class 8	Aggregate	Aggregate	Electricity	44.66073965	2754.47908	0	2754.47908	229.1095944	0	4936.510595
Orange	2029 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	331.1730194	15703.31223	15703.31223	0	1698.917589	2.503205747	0
Orange	2029 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Diesel	270.0057681	18089.0255	18089.0255	0	2543.454335	2.846889359	0
Orange	2029 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Electricity	29.85043375	2419.500973	0	2419.500973	281.1910859	0	4337.411867
Orange	2029 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Natural Gas	18.94379382	1316.302249	1316.302249	0	178.4505378	0.208660289	0
Orange	2029 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1091.415021	57558.74238	57558.74238	0	10281.1295	9.495889473	0
Orange	2029 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	55.06060739	4502.905422	0	4502.905422	518.6709216	0	8072.307319
Orange	2029 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	83.42425003	4659.305123	4659.305123	0	785.8564353	0.799496314	0
Orange	2029 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	2706.556676	129614.0807	129614.0807	0	25495.76389	20.99761336	0
Orange	2029 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	156.7074232	10282.22964	0	10282.22964	1476.183927	0	18432.83609
Orange	2029 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	212.9250352	10520.27159	10520.27159	0	2005.753831	1.780545153	0
Orange	2029 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	164.5522483	10685.1008	10685.1008	0	756.9403422	3.959345342	0
Orange	2029 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	45.13116308	2833.724584	0	2833.724584	207.6033502	0	5073.40813
Orange	2029 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	806.0298534	52220.17289	52220.17289	0	3707.737326	7.945589759	0
Orange	2029 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	3014.227164	200863.4166	200863.4166	0	43796.72069	31.31968099	0
Orange	2029 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	89.68686788	7107.490557	0	7107.490557	1303.15019	0	12739.66346
Orange	2029 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	97.14828211	6464.161792	6464.161792	0	1411.564539	1.144594826	0
Orange	2029 T7 Utility Class 8	Aggregate	Aggregate	Diesel	79.1405822	3350.915153	3350.915153	0	1012.999452	0.531811464	0
Orange	2029 T7 Utility Class 8	Aggregate	Aggregate	Electricity	3.337556868	204.6299897	0	204.6299897	42.72072791	0	366.732904
Orange	2029 T7IS	Aggregate	Aggregate	Gasoline	4.943091464	533.4895587	533.4895587	0	98.90137401	0.114806492	0
Orange	2029 T7IS	Aggregate	Aggregate	Electricity	0.173164598	42.21366893	0	42.21366893	3.464677275	0	75.61014348
Orange	2029 UBUS	Aggregate	Aggregate	Gasoline	258.4023617	42628.96157	42628.96157	0	1033.609447	3.268690854	0
Orange	2029 UBUS	Aggregate	Aggregate	Electricity	5.944034594	327.053411	0	327.053411	23.77613837	0	695.8022999
Orange	2029 UBUS	Aggregate	Aggregate	Natural Gas	580.4859911	111673.1941	111673.1941	0	2321.943964	37.37097777	0



EMFAC Fuel Usage: Year 2030

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	20,074	2,011	9.98	5,744	605	9.50	0	0	0.00
LDA	41,866,853	1,283,872	32.61	52,379	1,152	45.49	0	0	0.00	5,738,426	2,129,880	2.69
LDT1	3,257,540	119,562	27.25	23	1	27.37	0	0	0.00	56,763	20,393	2.78
LDT2	22,755,681	860,394	26.45	89,411	2,617	34.16	0	0	0.00	585,577	206,165	2.84
LHD1	1,581,440	101,836	15.53	1,014,029	47,712	21.25	0	0	0.00	265,572	149,479	1.78
LHD2	229,965	17,087	13.46	450,253	24,876	18.10	0	0	0.00	66,288	37,339	1.78
MCY	344,659	8,057	42.78	0	0	0.00	0	0	0.00	0	0	0.00
MDV	13,006,553	601,691	21.62	165,314	6,451	25.63	0	0	0.00	486,182	175,857	2.76
MH	51,637	10,574	4.88	28,939	2,853	10.14	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	17,279	2,888	5.98	0	0	0.00	0	0	0.00
OBUS	28,895	5,234	5.52	0	0	0.00	0	0	0.00	3,686	3,842	0.96
PTO	0	0	0.00	43,265	8,162	5.30	0	0	0.00	4,733	9,805	0.48
SBUS	31,661	3,490	9.07	12,523	1,655	7.57	21,253	4,836	4.39	3,117	3,605	0.86
T6	284,676	53,167	5.35	1,122,126	122,431	9.17	14,549	1,708	8.52	125,291	131,612	0.95
T7	521	110	4.73	1,290,825	197,340	6.54	95,703	15,043	6.36	66,486	119,199	0.56
UBUS	42,709	3,274	13.05	0	0	0.00	111,673	37,371	2.99	556	1,183	0.47
<b>Total</b>	<b>83,482,790</b>	<b>3,068,350</b>	<b>27.21</b>	<b>4,306,440</b>	<b>420,147</b>	<b>10.25</b>	<b>248,923</b>	<b>59,564</b>	<b>4.18</b>	<b>7,402,679</b>	<b>2,988,359</b>	<b>2.48</b>

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Orange

Calendar Year: 2030

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange	2030	All Other Buses	Aggregate	Aggregate	Diesel	386.5723803	20074.10877	20074.10877	0	3440.494185	2.010953942	0
Orange	2030	All Other Buses	Aggregate	Aggregate	Natural Gas	103.3945211	5744.296048	5744.296048	0	920.2112376	0.604829248	0
Orange	2030	LDA	Aggregate	Aggregate	Gasoline	1031374.505	41059903.02	41059903.02	0	4816955.176	1255.7267	0
Orange	2030	LDA	Aggregate	Aggregate	Diesel	1682.171192	52378.96755	52378.96755	0	7280.49944	1.151539841	0
Orange	2030	LDA	Aggregate	Aggregate	Electricity	103443.2334	4719711.511	0	4719711.511	503483.2028	0	1822198.182
Orange	2030	LDA	Aggregate	Aggregate	Plug-in Hybrid	41736.5307	1825664.512	806949.725	1018714.787	172580.5544	28.14526627	307682.2281
Orange	2030	LDT1	Aggregate	Aggregate	Gasoline	90507.2226	3244801.129	3244801.129	0	401998.5473	119.1163704	0
Orange	2030	LDT1	Aggregate	Aggregate	Diesel	0.502843385	23.30486049	23.30486049	0	2.478857338	0.000851487	0
Orange	2030	LDT1	Aggregate	Aggregate	Electricity	797.5521109	38652.4259	0	38652.4259	3949.371779	0	14923.02656
Orange	2030	LDT1	Aggregate	Aggregate	Plug-in Hybrid	628.5188609	30850.12666	12739.2795	18110.84716	2598.92549	0.445245647	5470.015632
Orange	2030	LDT2	Aggregate	Aggregate	Gasoline	561274.5262	22580196.34	22580196.34	0	2624971.592	854.2241757	0
Orange	2030	LDT2	Aggregate	Aggregate	Diesel	2227.827443	89411.01445	89411.01445	0	10463.55475	2.617433073	0
Orange	2030	LDT2	Aggregate	Aggregate	Electricity	10223.18338	348630.7104	0	348630.7104	51020.15624	0	134600.2283
Orange	2030	LDT2	Aggregate	Aggregate	Plug-in Hybrid	8947.672319	412430.9883	175484.421	236946.5673	36998.62504	6.170256609	71564.92547
Orange	2030	LHD1	Aggregate	Aggregate	Gasoline	39791.07051	1581440.061	1581440.061	0	592827.662	101.8364753	0
Orange	2030	LHD1	Aggregate	Aggregate	Diesel	24714.62427	1014028.569	1014028.569	0	310878.8823	47.71167867	0
Orange	2030	LHD1	Aggregate	Aggregate	Electricity	4352.797084	265572.4029	0	265572.4029	60826.70791	0	149479.2427
Orange	2030	LHD2	Aggregate	Aggregate	Gasoline	6261.73377	229965.1224	229965.1224	0	93290.50319	17.0872741	0
Orange	2030	LHD2	Aggregate	Aggregate	Diesel	11162.1853	450252.8174	450252.8174	0	140406.249	24.87552136	0
Orange	2030	LHD2	Aggregate	Aggregate	Electricity	1141.138301	66287.99037	0	66287.99037	15133.12431	0	37338.76708
Orange	2030	MCY	Aggregate	Aggregate	Gasoline	54660.25356	344658.5469	344658.5469	0	109320.5071	8.057242641	0
Orange	2030	MDV	Aggregate	Aggregate	Gasoline	332433.7502	12900815.72	12900815.72	0	1539526.506	597.9203327	0
Orange	2030	MDV	Aggregate	Aggregate	Diesel	4362.656488	165314.4645	165314.4645	0	20077.99942	6.451283801	0
Orange	2030	MDV	Aggregate	Aggregate	Electricity	10185.4352	345209.4403	0	345209.4403	50734.42342	0	133279.3356
Orange	2030	MDV	Aggregate	Aggregate	Plug-in Hybrid	5621.676864	246709.3765	105737.1185	140972.258	23245.63383	3.77072831	42577.82357
Orange	2030	MH	Aggregate	Aggregate	Gasoline	5068.714656	51637.0341	51637.0341	0	507.0742141	10.57394996	0
Orange	2030	MH	Aggregate	Aggregate	Diesel	3033.205135	28939.37037	28939.37037	0	303.3205135	2.853026373	0
Orange	2030	Motor Coach	Aggregate	Aggregate	Diesel	145.9523847	17279.02122	17279.02122	0	3353.985801	2.887800998	0
Orange	2030	OBUS	Aggregate	Aggregate	Gasoline	739.3951504	28895.27372	28895.27372	0	14793.81817	5.234235056	0
Orange	2030	OBUS	Aggregate	Aggregate	Electricity	51.15070153	3685.625488	0	3685.625488	1023.423236	0	3841.687221
Orange	2030	PTO	Aggregate	Aggregate	Diesel	0	43264.96905	43264.96905	0	0	8.16193558	0
Orange	2030	PTO	Aggregate	Aggregate	Electricity	0	4733.361562	0	4733.361562	0	0	9805.247311
Orange	2030	SBUS	Aggregate	Aggregate	Gasoline	700.8125163	31661.32861	31661.32861	0	2803.250065	3.489895445	0
Orange	2030	SBUS	Aggregate	Aggregate	Diesel	613.3791069	12523.3106	12523.3106	0	8881.729468	1.654803237	0
Orange	2030	SBUS	Aggregate	Aggregate	Electricity	100.5027561	3117.409718	0	3117.409718	1194.167251	0	3604.665042
Orange	2030	SBUS	Aggregate	Aggregate	Natural Gas	901.0263282	21253.03875	21253.03875	0	13046.86123	4.836169767	0
Orange	2030	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	8.522988897	555.3462228	555.3462228	0	195.8582849	0.057721572	0
Orange	2030	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	1.038510558	83.93263427	0	83.93263427	23.86497262	0	88.48873103
Orange	2030	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	10.98144611	767.4817467	767.4817467	0	252.3536316	0.079993908	0
Orange	2030	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	1.241086456	109.4938878	0	109.4938878	18.52016675	0	115.4375204
Orange	2030	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	42.43966026	1955.815844	1955.815844	0	975.2633929	0.201291435	0
Orange	2030	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	6.16812259	335.7465795	335.7465795	0	141.7434571	0	353.9718373
Orange	2030	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	68.63939365	13248.22822	13248.22822	0	1577.333266	1.225698361	0
Orange	2030	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	5.244638433	1116.030993	0	1116.030993	120.5217912	0	1176.612259
Orange	2030	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.050781005	9.578586161	9.578586161	0	1.166947506	0.000924873	0
Orange	2030	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	2545.628828	83141.55415	83141.55415	0	36326.12337	9.199724687	0
Orange	2030	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	203.754819	8059.066548	0	8059.066548	2907.581268	0	8461.86408
Orange	2030	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	11.68311106	406.2754783	406.2754783	0	166.7179948	0.047850156	0
Orange	2030	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	2072.03139	67848.12047	67848.12047	0	29567.88794	7.489790148	0
Orange	2030	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	163.7584245	6492.318539	0	6492.318539	2336.832717	0	6816.808959
Orange	2030	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	8.727800721	308.09256	308.09256	0	124.5457163	0.036030876	0
Orange	2030	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	6439.61782	210050.7714	210050.7714	0	91893.3463	23.2736232	0
Orange	2030	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	506.906832	19921.8219	0	19921.8219	7233.560493	0	20917.52787
Orange	2030	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	26.31623678	925.3894341	925.3894341	0	375.5326989	0.108245231	0
Orange	2030	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	933.6362588	46738.46266	46738.46266	0	13322.98941	5.067042008	0
Orange	2030	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	28.44041535	1452.767288	0	1452.767288	405.844727	0	1525.377568
Orange	2030	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	26.77107615	1355.408395	1355.408395	0	382.0232566	0.15815602	0
Orange	2030	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	2190.526378	86760.94007	86760.94007	0	25322.48493	9.543449279	0
Orange	2030	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	205.0485659	9752.960656	0	9752.960656	2370.361422	0	10240.86474
Orange	2030	T6 Instate Other Class 4	Aggregate	Aggregate								

Orange	2030 T6 Utility Class 5	Aggregate	Aggregate	Electricity	15.45280589	666.8240493	0	666.8240493	197.7959153	0	702.275767
Orange	2030 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	0.548589767	21.69190902	21.69190902	0	7.021949013	0.002384773	0
Orange	2030 T6 Utility Class 6	Aggregate	Aggregate	Diesel	18.1499328	723.4583539	723.4583539	0	232.3191399	0.075569253	0
Orange	2030 T6 Utility Class 6	Aggregate	Aggregate	Electricity	2.937001294	126.7361616	0	126.7361616	37.59361656	0	133.4740929
Orange	2030 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.138666315	5.208808047	5.208808047	0	1.774928837	0.00057784	0
Orange	2030 T6 Utility Class 7	Aggregate	Aggregate	Diesel	20.11242737	989.2504176	989.2504176	0	257.4390704	0.102482642	0
Orange	2030 T6 Utility Class 7	Aggregate	Aggregate	Electricity	3.226335971	193.3633496	0	193.3633496	41.29710043	0	203.643517
Orange	2030 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.16814765	7.536400825	7.536400825	0	2.152289921	0.000822268	0
Orange	2030 T6TS	Aggregate	Aggregate	Gasoline	6172.407022	284675.9431	284675.9431	0	123497.5197	53.16742578	0
Orange	2030 T6TS	Aggregate	Aggregate	Electricity	267.1966877	21101.64944	0	21101.64944	5346.071328	0	22191.47898
Orange	2030 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1126.386764	225728.3076	225728.3076	0	25884.36783	33.07977264	0
Orange	2030 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	96.69270853	20410.9413	0	20410.9413	2221.998442	0	36612.14336
Orange	2030 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	4.235824131	844.6993301	844.6993301	0	97.33923854	0.141722863	0
Orange	2030 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1069.737986	292690.7392	292690.7392	0	24582.57892	40.350603	0
Orange	2030 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	464.3407139	106276.3081	106276.3081	0	10670.54961	15.14748301	0
Orange	2030 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1531.736007	223731.6872	223731.6872	0	25059.20107	36.55390642	0
Orange	2030 T7 POLA Class 8	Aggregate	Aggregate	Electricity	33.63346392	4573.587178	0	4573.587178	550.2434698	0	8200.546675
Orange	2030 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	26.43277312	3843.076695	3843.076695	0	432.4401682	0.614468568	0
Orange	2030 T7 Public Class 8	Aggregate	Aggregate	Diesel	643.4866526	25791.48084	25791.48084	0	3301.086528	4.352903527	0
Orange	2030 T7 Public Class 8	Aggregate	Aggregate	Electricity	62.75706958	3844.389554	0	3844.389554	321.943767	0	6889.821709
Orange	2030 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	344.5958688	16038.95388	16038.95388	0	1767.776807	2.553446435	0
Orange	2030 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Diesel	260.9508665	17323.88348	17323.88348	0	2458.157163	2.703326374	0
Orange	2030 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Electricity	40.8316543	3322.902211	0	3322.902211	384.6341835	0	5956.928988
Orange	2030 T7 Single Concrete/Transit Mix Cl	Aggregate	Aggregate	Natural Gas	18.62430902	1279.086084	1279.086084	0	175.4409909	0.201849798	0
Orange	2030 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1091.455675	56365.97519	56365.97519	0	10281.51246	9.240803086	0
Orange	2030 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	74.84683451	6116.485606	0	6116.485606	705.0571811	0	10964.95416
Orange	2030 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	83.68701614	4547.392092	4547.392092	0	788.331692	0.7777524	0
Orange	2030 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	2751.803553	128022.3456	128022.3456	0	25921.98947	20.64253604	0
Orange	2030 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	220.862254	14398.76713	0	14398.76713	2080.522432	0	25812.50601
Orange	2030 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	216.6463586	10352.34962	10352.34962	0	2040.808698	1.751259811	0
Orange	2030 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	149.3701827	9698.783521	9698.783521	0	687.1028405	3.592645511	0
Orange	2030 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	63.39746612	4012.62561	0	4012.62561	291.6283441	0	7184.074102
Orange	2030 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	808.2025505	52371.09216	52371.09216	0	3717.731732	7.867961825	0
Orange	2030 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	3091.323582	201910.3466	201910.3466	0	44916.93165	31.1566181	0
Orange	2030 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	120.5678232	9458.175231	0	9458.175231	1751.850471	0	16953.09595
Orange	2030 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	98.9462988	6426.53451	6426.53451	0	1437.689722	1.134845898	0
Orange	2030 T7 Utility Class 8	Aggregate	Aggregate	Diesel	78.02646443	3284.766981	3284.766981	0	998.7387448	0.51913972	0
Orange	2030 T7 Utility Class 8	Aggregate	Aggregate	Electricity	4.758188198	289.3567909	0	289.3567909	60.90480893	0	518.578222
Orange	2030 T7IS	Aggregate	Aggregate	Gasoline	4.582857622	521.3588388	521.3588388	0	91.6938153	0.110300404	0
Orange	2030 T7IS	Aggregate	Aggregate	Electricity	0.248022689	59.18348652	0	59.18348652	4.962437969	0	106.0052827
Orange	2030 UBUS	Aggregate	Aggregate	Gasoline	258.8791012	42708.82681	42708.82681	0	1035.516405	3.273674248	0
Orange	2030 UBUS	Aggregate	Aggregate	Electricity	7.155489529	556.1774777	0	556.1774777	28.62195812	0	1183.261067
Orange	2030 UBUS	Aggregate	Aggregate	Natural Gas	580.4859911	111673.1941	111673.1941	0	2321.943964	37.37097777	0



EMFAC Fuel Usage: Year 2035

Vehicle type	GAS			DSL			NG			ELEC		
	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	Gallons/day	Miles/gallon	VMT/day	kWh/day	Miles/kWh
All other buses	0	0	0.00	20,425	1,991	10.26	6,019	616	0	0	0	0.00
LDA	41,884,228	1,226,348	34.15	33,070	679	48.71	0	0	9.77	6,583,360	2,447,608	2.69
LDT1	3,154,492	109,590	28.78	30	1	27.83	0	0	0.00	96,539	34,746	2.78
LDT2	23,416,191	845,155	27.71	89,128	2,487	35.84	0	0	0.00	843,979	299,122	2.82
LHD1	1,365,840	83,738	16.31	944,756	43,777	21.58	0	0	0.00	734,274	413,234	1.78
LHD2	194,698	13,692	14.22	427,344	23,175	18.44	0	0	0.00	185,874	104,696	1.78
MCY	359,272	8,337	43.09	0	0	0.00	0	0	0.00	0	0	0.00
MDV	13,281,710	584,111	22.74	154,000	5,696	27.04	0	0	0.00	680,626	246,756	2.76
MH	48,882	9,991	4.89	28,525	2,810	10.15	0	0	0.00	0	0	0.00
Motor coach	0	0	0.00	17,757	2,857	6.22	0	0	0.00	0	0	0.00
OBUS	22,272	3,905	5.70	0	0	0.00	0	0	0.00	9,675	10,084	0.96
PTO	0	0	0.00	40,155	7,282	5.51	0	0	0.00	13,715	28,410	0.48
SBUS	28,659	3,096	9.26	9,103	1,163	7.83	20,876	4,711	4.43	9,035	10,447	0.86
T6	192,489	34,657	5.55	1,014,720	107,260	9.46	14,551	1,700	8.56	398,761	418,821	0.95
T7	458	91	5.01	1,405,359	200,869	7.00	96,722	14,650	6.60	188,243	337,362	0.56
UBUS	40,472	2,559	15.82	0	0	0.00	64,390	21,126	3.05	51,621	109,822	0.47
<b>Total</b>	<b>83,989,663</b>	<b>2,925,270</b>	<b>28.71</b>	<b>4,184,371</b>	<b>400,046</b>	<b>10.46</b>	<b>202,558</b>	<b>42,803</b>	<b>4.73</b>	<b>9,795,701</b>	<b>4,461,109</b>	<b>2.20</b>

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Orange

Calendar Year: 2035

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Fuel Consumption	Energy Consumption
Orange	2035	All Other Buses	Aggregate	Aggregate	Diesel	392.1758187	20425.37	20425.37	0	3490.364786	1.990750631	0
Orange	2035	All Other Buses	Aggregate	Aggregate	Natural Gas	110.8721532	6019.031748	6019.031748	0	986.7621634	0.616082131	0
Orange	2035	LDA	Aggregate	Aggregate	Gasoline	1025015.836	4106680.72	4106680.72	0	4797830.996	1197.840567	0
Orange	2035	LDA	Aggregate	Aggregate	Diesel	1040.668003	33069.74659	33069.74659	0	4521.409438	0.678940302	0
Orange	2035	LDA	Aggregate	Aggregate	Electricity	124692.9087	5463675.36	0	5463675.36	598914.6369	0	2109429.631
Orange	2035	LDA	Aggregate	Aggregate	Plug-in Hybrid	46045.15464	1937108.274	817423.2534	1119685.021	190396.7145	28.50698894	338178.2482
Orange	2035	LDT1	Aggregate	Aggregate	Gasoline	86348.82504	3133690.319	3133690.319	0	385455.5982	108.8624583	0
Orange	2035	LDT1	Aggregate	Aggregate	Diesel	0.685063439	29.51032249	29.51032249	0	3.300456234	0.00106048	0
Orange	2035	LDT1	Aggregate	Aggregate	Electricity	1428.625051	66488.58384	0	66488.58384	6994.229377	0	25670.08096
Orange	2035	LDT1	Aggregate	Aggregate	Plug-in Hybrid	1110.994899	50851.99441	20801.34508	30050.64932	4593.963907	0.727560665	9076.191749
Orange	2035	LDT2	Aggregate	Aggregate	Gasoline	581729.3208	23190849.88	23190849.88	0	2710991.291	837.2225323	0
Orange	2035	LDT2	Aggregate	Aggregate	Diesel	2227.902118	89127.81902	89127.81902	0	10426.20969	2.486673576	0
Orange	2035	LDT2	Aggregate	Aggregate	Electricity	16449.16596	526039.6701	0	526039.6701	80433.83172	0	203094.7291
Orange	2035	LDT2	Aggregate	Aggregate	Plug-in Hybrid	12546.47934	543280.3585	225341.5044	317938.8541	51879.69207	7.932824489	96027.01003
Orange	2035	LHD1	Aggregate	Aggregate	Gasoline	35991.75907	1365839.649	1365839.649	0	536223.5825	83.73761561	0
Orange	2035	LHD1	Aggregate	Aggregate	Diesel	24672.20821	944755.5899	944755.5899	0	310345.3417	43.77694659	0
Orange	2035	LHD1	Aggregate	Aggregate	Electricity	13272.19033	734273.8963	0	734273.8963	185323.0412	0	413234.1012
Orange	2035	LHD2	Aggregate	Aggregate	Gasoline	5517.319644	194698.0898	194698.0898	0	82199.84189	13.69167528	0
Orange	2035	LHD2	Aggregate	Aggregate	Diesel	11396.41709	427343.9656	427343.9656	0	143352.5904	23.17490647	0
Orange	2035	LHD2	Aggregate	Aggregate	Electricity	3522.207796	185873.7855	0	185873.7855	46675.46267	0	104695.9393
Orange	2035	MCY	Aggregate	Aggregate	Gasoline	58172.20192	359272.2254	359272.2254	0	116344.4038	8.33700843	0
Orange	2035	MDV	Aggregate	Aggregate	Gasoline	340237.1875	13145806.32	13145806.32	0	1572404.948	579.2589376	0
Orange	2035	MDV	Aggregate	Aggregate	Diesel	4102.008105	154000.4141	154000.4141	0	18767.0556	5.695739745	0
Orange	2035	MDV	Aggregate	Aggregate	Electricity	15443.6702	490013.4289	0	490013.4289	75325.92721	0	189185.6266
Orange	2035	MDV	Aggregate	Aggregate	Plug-in Hybrid	7788.106551	326516.9132	135903.8505	190613.0627	32203.82059	4.851887698	57570.82611
Orange	2035	MH	Aggregate	Aggregate	Gasoline	4610.156808	48881.72073	48881.72073	0	461.200087	9.99096781	0
Orange	2035	MH	Aggregate	Aggregate	Diesel	3038.248776	28524.71627	28524.71627	0	303.8248776	2.810321112	0
Orange	2035	Motor Coach	Aggregate	Aggregate	Diesel	146.819704	17756.81561	17756.81561	0	3373.916798	2.856568734	0
Orange	2035	OBUS	Aggregate	Aggregate	Gasoline	631.5891032	22271.63055	22271.63055	0	12636.83478	3.904998889	0
Orange	2035	OBUS	Aggregate	Aggregate	Electricity	143.0287546	9674.830969	0	9674.830969	2861.719322	0	10084.49573
Orange	2035	PTO	Aggregate	Aggregate	Diesel	0	40155.03068	40155.03068	0	0	7.282405896	0
Orange	2035	PTO	Aggregate	Aggregate	Electricity	0	13714.65447	0	13714.65447	0	0	28410.16412
Orange	2035	SBUS	Aggregate	Aggregate	Gasoline	636.0164784	28659.18273	28659.18273	0	2544.065914	3.096219677	0
Orange	2035	SBUS	Aggregate	Aggregate	Diesel	435.9791603	9103.164671	9103.164671	0	6312.978241	1.163112019	0
Orange	2035	SBUS	Aggregate	Aggregate	Electricity	291.6171112	9034.537489	0	9034.537489	3467.803096	0	10446.64783
Orange	2035	SBUS	Aggregate	Aggregate	Natural Gas	953.2575516	20875.86953	20875.86953	0	13803.16935	4.710579749	0
Orange	2035	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	6.92789634	458.7773279	458.7773279	0	159.2030579	0.046220547	0
Orange	2035	T6 CAIRP Class 4	Aggregate	Aggregate	Electricity	3.08202006	249.799235	0	249.799235	70.82482097	0	263.4003118
Orange	2035	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	8.676673582	634.3842468	634.3842468	0	199.3899589	0.063990114	0
Orange	2035	T6 CAIRP Class 5	Aggregate	Aggregate	Electricity	3.749613589	337.6553786	0	337.6553786	86.16612029	0	356.0400494
Orange	2035	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	37.0485223	1616.875442	1616.875442	0	851.3750425	0.162520584	0
Orange	2035	T6 CAIRP Class 6	Aggregate	Aggregate	Electricity	17.5644694	923.0919097	0	923.0919097	403.6315068	0	973.3524475
Orange	2035	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	67.4269418	13139.87282	13139.87282	0	1549.471123	1.161640094	0
Orange	2035	T6 CAIRP Class 7	Aggregate	Aggregate	Electricity	12.96824196	2783.129783	0	2783.129783	298.0102003	0	2934.665723
Orange	2035	T6 CAIRP Class 7	Aggregate	Aggregate	Natural Gas	0.046308907	8.956458589	8.956458589	0	1.064178676	0.000848945	0
Orange	2035	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	2287.355383	74084.82985	74084.82985	0	32640.56132	7.959123388	0
Orange	2035	T6 Instate Delivery Class 4	Aggregate	Aggregate	Electricity	701.9744803	27011.67315	0	27011.67315	10017.17583	0	28356.48707
Orange	2035	T6 Instate Delivery Class 4	Aggregate	Aggregate	Natural Gas	13.01320712	440.5631993	440.5631993	0	185.6984656	0.051418619	0
Orange	2035	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	1870.280814	60512.38339	60512.38339	0	26688.90722	6.493020254	0
Orange	2035	T6 Instate Delivery Class 5	Aggregate	Aggregate	Electricity	567.9181097	21882.52294	0	21882.52294	8104.191426	0	22971.97495
Orange	2035	T6 Instate Delivery Class 5	Aggregate	Aggregate	Natural Gas	10.1447857	345.5117745	345.5117745	0	144.7660919	0.040166202	0
Orange	2035	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	5784.461488	187133.9015	187133.9015	0	82544.26543	20.12749516	0
Orange	2035	T6 Instate Delivery Class 6	Aggregate	Aggregate	Electricity	1765.014475	67744.88941	0	67744.88941	25186.75655	0	71117.66347
Orange	2035	T6 Instate Delivery Class 6	Aggregate	Aggregate	Natural Gas	30.70459013	1048.48899	1048.48899	0	438.1545011	0.121795141	0
Orange	2035	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	949.8982595	46192.43709	46192.43709	0	13555.04816	4.956568283	0
Orange	2035	T6 Instate Delivery Class 7	Aggregate	Aggregate	Electricity	141.0419135	7417.572445	0	7417.572445	2012.668106	0	7786.866663
Orange	2035	T6 Instate Delivery Class 7	Aggregate	Aggregate	Natural Gas	27.09319072	1307.474928	1307.474928	0	386.6198315	0.151550865	0
Orange	2035	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	1996.357888	75939.2018	75939.2018	0	23077.89718	8.057367531	0
Orange	2035	T6 Instate Other Class 4	Aggregate	Aggregate	Electricity	654.9531628	31016.33252	0	31016.33252	7571.258563	0	32568.27617
Orange	2035	T6 Instate Other Class 4										

Orange	2035 T6 Utility Class 5	Aggregate	Aggregate	Electricity	39.47592683	1683.219932	0	1683.219932	505.2918634	0	1772.680146
Orange	2035 T6 Utility Class 5	Aggregate	Aggregate	Natural Gas	0.420342158	16.68294801	16.68294801	0	5.380379616	0.001810344	0
Orange	2035 T6 Utility Class 6	Aggregate	Aggregate	Diesel	14.00500158	555.0487033	555.0487033	0	179.2640202	0.056660377	0
Orange	2035 T6 Utility Class 6	Aggregate	Aggregate	Electricity	7.451755617	317.7079715	0	317.7079715	95.3824719	0	334.5935981
Orange	2035 T6 Utility Class 6	Aggregate	Aggregate	Natural Gas	0.087457745	3.386886293	3.386886293	0	1.119459135	0.000369119	0
Orange	2035 T6 Utility Class 7	Aggregate	Aggregate	Diesel	15.50369586	738.3511437	738.3511437	0	198.4473071	0.074871367	0
Orange	2035 T6 Utility Class 7	Aggregate	Aggregate	Electricity	8.331327949	476.0326067	0	476.0326067	106.6409977	0	501.3329126
Orange	2035 T6 Utility Class 7	Aggregate	Aggregate	Natural Gas	0.099846057	4.622977453	4.622977453	0	1.27802953	0.000495633	0
Orange	2035 T6TS	Aggregate	Aggregate	Gasoline	4716.416682	192489.3921	192489.3921	0	94366.06498	34.65744969	0
Orange	2035 T6TS	Aggregate	Aggregate	Electricity	761.8392398	56270.99597	0	56270.99597	15242.87951	0	59171.95137
Orange	2035 T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1160.563422	239502.4612	239502.4612	0	26669.74744	32.84819798	0
Orange	2035 T7 CAIRP Class 8	Aggregate	Aggregate	Electricity	230.284113	51044.51751	0	51044.51751	5291.928916	0	91534.48459
Orange	2035 T7 CAIRP Class 8	Aggregate	Aggregate	Natural Gas	4.272546348	880.7123299	880.7123299	0	98.18311507	0.142730129	0
Orange	2035 T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1208.588618	345359.2305	345359.2305	0	27773.36644	44.84793407	0
Orange	2035 T7 NOOS Class 8	Aggregate	Aggregate	Diesel	524.1131413	125400.2915	125400.2915	0	12044.11999	16.56090385	0
Orange	2035 T7 POLA Class 8	Aggregate	Aggregate	Diesel	1412.600096	254765.3169	254765.3169	0	23110.13756	38.64337407	0
Orange	2035 T7 POLA Class 8	Aggregate	Aggregate	Electricity	111.5771972	19494.19183	0	19494.19183	1825.402946	0	34938.57379
Orange	2035 T7 POLA Class 8	Aggregate	Aggregate	Natural Gas	40.56238457	7300.157318	7300.157318	0	663.6006115	1.082345564	0
Orange	2035 T7 Public Class 8	Aggregate	Aggregate	Diesel	492.1445138	19364.88232	19364.88232	0	2524.701356	3.162625179	0
Orange	2035 T7 Public Class 8	Aggregate	Aggregate	Electricity	182.4005762	10430.39527	0	10430.39527	935.7149559	0	18687.73719
Orange	2035 T7 Public Class 8	Aggregate	Aggregate	Natural Gas	392.9984512	16986.98533	16986.98533	0	2016.082055	2.680380315	0
Orange	2035 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Diesel	206.5550095	13249.3492	13249.3492	0	1945.74819	1.990640261	0
Orange	2035 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Electricity	103.8328529	8172.863044	0	8172.863044	978.1054746	0	14644.89301
Orange	2035 T7 Single Concrete/Transit Mix CI	Aggregate	Aggregate	Natural Gas	15.60337481	1015.935348	1015.935348	0	146.9837907	0.157766169	0
Orange	2035 T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	1008.540214	49279.72071	49279.72071	0	9500.448812	7.821608266	0
Orange	2035 T7 Single Dump Class 8	Aggregate	Aggregate	Electricity	202.417353	15439.90173	0	15439.90173	1906.771465	0	27666.64603
Orange	2035 T7 Single Dump Class 8	Aggregate	Aggregate	Natural Gas	79.67691181	3876.315152	3876.315152	0	750.5565092	0.653002655	0
Orange	2035 T7 Single Other Class 8	Aggregate	Aggregate	Diesel	2880.226304	124922.8445	124922.8445	0	27131.73178	19.61385289	0
Orange	2035 T7 Single Other Class 8	Aggregate	Aggregate	Electricity	721.9436371	45456.97645	0	45456.97645	6800.709061	0	81454.02081
Orange	2035 T7 Single Other Class 8	Aggregate	Aggregate	Natural Gas	229.6703056	9884.595956	9884.595956	0	2163.494279	1.660212841	0
Orange	2035 T7 SWCV Class 8	Aggregate	Aggregate	Diesel	96.09254803	6238.584369	6238.584369	0	442.0257209	2.303203857	0
Orange	2035 T7 SWCV Class 8	Aggregate	Aggregate	Electricity	177.8027285	11410.3857	0	11410.3857	817.892551	0	20421.07219
Orange	2035 T7 SWCV Class 8	Aggregate	Aggregate	Natural Gas	771.6922553	50035.77748	50035.77748	0	3549.784374	7.117100105	0
Orange	2035 T7 Tractor Class 8	Aggregate	Aggregate	Diesel	3510.847675	224426.7395	224426.7395	0	51012.61671	32.63678801	0
Orange	2035 T7 Tractor Class 8	Aggregate	Aggregate	Electricity	332.2101579	25817.84702	0	25817.84702	4827.013594	0	46266.63027
Orange	2035 T7 Tractor Class 8	Aggregate	Aggregate	Natural Gas	107.3606085	6741.791966	6741.791966	0	1559.949642	1.156434863	0
Orange	2035 T7 Utility Class 8	Aggregate	Aggregate	Diesel	69.21879648	2849.530438	2849.530438	0	886.0005949	0.439815423	0
Orange	2035 T7 Utility Class 8	Aggregate	Aggregate	Electricity	14.40514605	811.2520768	0	811.2520768	184.3858695	0	1453.489078
Orange	2035 T7IS	Aggregate	Aggregate	Gasoline	4.010125732	457.9285063	457.9285063	0	80.23459565	0.091455018	0
Orange	2035 T7IS	Aggregate	Aggregate	Electricity	0.800919925	164.6176419	0	164.6176419	16.02480587	0	294.6057494
Orange	2035 UBUS	Aggregate	Aggregate	Gasoline	241.642597	40472.17597	40472.17597	0	966.570388	2.558657671	0
Orange	2035 UBUS	Aggregate	Aggregate	Electricity	293.4176801	51620.652	0	51620.652	1173.67072	0	109822.3323
Orange	2035 UBUS	Aggregate	Aggregate	Natural Gas	319.9012769	64390.31693	64390.31693	0	1279.605108	21.12616529	0