

## **Attachment C: Air Quality and Greenhouse Gas Calculations**



# Assumptions



**Table 1: Construction Schedule**

<b>Phase</b>	<b><u>Decorative Facility Start Date</u></b>	<b><u>Decorative Facility End Date</u></b>	<b><u>Hard Functional Facility Start Date</u></b>	<b><u>Hard Functional Facility End Date</u></b>	<b><u>Workdays</u></b>
<b>2027 Phase Out Pathway</b>					
<u>Additional Controls – Building Enclosure</u>	<u>N/A</u>	<u>N/A</u>	<u>1/1/2025</u>	<u>1/8/2025</u>	<u>6</u>
<u>Additional Controls – Air Pollution Control Devices Installation</u>	<u>N/A</u>	<u>N/A</u>	<u>1/9/2025</u>	<u>1/16/2025</u>	<u>6</u>
<u>Convert to Trivalent Chromium</u>	<u>1/17/2026</u>	<u>3/16/2026</u>	<u>1/17/2038</u>	<u>3/15/2038</u>	<u>41</u>
<b>Alternative 2030 Phase Out Pathway</b>					
<u>Additional Controls – Building Enclosure</u>	<u>1/1/2025</u>	<u>1/8/2025</u>	<u>1/1/2025</u>	<u>1/8/2025</u>	<u>6</u>
<u>Additional Controls – Air Pollution Control Devices Installation</u>	<u>N/A</u>	<u>N/A</u>	<u>1/9/2025</u>	<u>1/16/2025</u>	<u>6</u>
<u>Convert to Trivalent Chromium</u>	<u>1/17/2029</u>	<u>3/14/2029</u>	<u>1/17/2038</u>	<u>3/15/2038</u>	<u>41</u>

<b>Phase</b>	<b><u>Decorative Facility Start Date</u></b>	<b><u>Decorative Facility End Date</u></b>	<b><u>Functional Facility Start Date</u></b>	<b><u>Functional Facility End Date</u></b>	<b><u>Workdays</u></b>
<u>Additional Controls – Building Enclosure</u>	<u>N/A</u>	<u>N/A</u>	<u>1/1/2025</u>	<u>1/8/2025</u>	<u>6</u>
<u>Additional Controls – Air Pollution Control Devices Installation</u>	<u>N/A</u>	<u>N/A</u>	<u>1/9/2025</u>	<u>1/18/2025</u>	<u>6</u>
<u>Convert to Trivalent Chromium</u>	<u>1/17/2026</u>	<u>3/16/2026</u>	<u>1/19/2038</u>	<u>3/16/2038</u>	<u>41</u>

**Table 2: Construction Equipment per Phase**

Phase/Equipment	Unit Amount	Hours/Day	Horsepower (HP)	Load Factor
<b>Additional Controls – Building Enclosure</b>				
Aerial lift	1	4	63	0.31
Forklift	1	4	89	0.20
Welders	1	4	46	0.45
<b>Additional Controls – Air Pollution Control Devices Installation</b>				
Aerial lift	1	4	63	0.31
Air Compressor	1	4	78	0.48
Forklift	1	4	89	0.20
Welders	1	4	46	0.45
<b>Convert to Trivalent Chromium</b>				
Aerial lift	1	4	63	0.31
Air Compressor	1	4	78	0.48
Forklift	1	4	89	0.20
Welders	1	4	46	0.45

**Table 3: Vehicle Trips per Phase**

Phase	Daily One-Way Worker Trips	Daily One-Way Vendor Trips	Total One-Way Haul Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Hauling Trip Length (miles)
Additional Controls – Building Enclosure	10	2	2	<del>14.7</del> <u>10.8</u>	<del>6.97</del> <u>3</u>	20
Additional Controls – Air Pollution Control Devices Installation	12	2	4	<del>14.7</del> <u>10.8</u>	<del>6.97</del> <u>3</u>	20
Convert to Trivalent Chromium	12	2	4	<del>14.7</del> <u>10.8</u>	<del>6.97</del> <u>3</u>	20

**Table 4: Number of Chrome Plating Facilities by California Air District**

<b>Air District</b>	<b>Decorative</b>	<b>Functional</b>
South Coast Air Quality Management District	36	50
Ventura County Air Pollution Control District	0	1
Bay Area Air Quality Management District	4	6
San Joaquin Valley Air Pollution Control District	6	3
San Diego Air Pollution Control District	3	1
Feather River Air Quality Management District	1	0
Sacramento Metropolitan Air Quality Management District	1	1





# **Air Quality and GHG Emissions**



Table 5: Annual Emissions (Tons Per Year)

Phase	Year	ROG	NOx	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e
<b>2027 Phase Out Pathway</b>											
Functional Platers Install Air Pollution Control Devices and Building Enclosures (Winter) (ppd)	2025	0.3196	2.2945	3.4509	0.00637	0.2067	0.104	N/A	N/A	N/A	N/A
Functional Platers Install Air Pollution Control Devices and Building Enclosures (Summer) (ppd)	2025	0.3196	2.2823	3.4722	0.00643	0.2067	0.104	N/A	N/A	N/A	N/A
Decorative Platers Convert to Trivalent Chromium (Winter) (ppd)	2026	0.3165	2.219	3.4171	0.003	0.1961	0.1106	N/A	N/A	N/A	N/A
Decorative Platers Convert to Trivalent Chromium (Summer) (ppd)	2026	0.3163	2.2112	3.4369	0.00607	0.1961	0.1106	N/A	N/A	N/A	N/A
Functional Platers Convert to Trivalent Chromium (Winter) (ppd)	2038	0.2445	1.6687	3.3608	0.0062	0.1308	0.0474	N/A	N/A	N/A	N/A
Functional Platers Convert to Trivalent Chromium (Summer) (ppd)	2038	0.2441	1.6622	3.3737	0.00625	0.1308	0.0474	N/A	N/A	N/A	N/A
Functional Platers Install Air Pollution Control Devices and Building Enclosures (tpy)	2025	0.00155	0.0113	0.0169	0.00003	0.00105	0.00056	2.6981	0.00037	0.00007	2.728
Decorative Platers Convert to Trivalent Chromium (tpy)	2026	0.00645	0.0455	0.0701	0.00012	0.00395	0.00225	10.569	0.00136	0.00016	10.6513
Functional Platers Convert to Trivalent Chromium (tpy)	2038	0.00498	0.0342	0.0689	0.00013	0.00261	0.00095	10.7988	0.0004	0.00013	10.849
<b>Alternative 2030 Phase Out Pathway</b>											
Decorative Platers Building Enclosure (Winter) (ppd)	2025	0.1997	1.485	2.1916	0.00408	0.1497	0.0732	N/A	N/A	N/A	N/A
Decorative Platers Building Enclosure (Summer) (ppd)	2025	0.1997	1.4756	2.2092	0.00413	0.1497	0.0732	N/A	N/A	N/A	N/A
Decorative Platers Convert to Trivalent Chromium (Winter) (ppd)	2029	0.3116	2.2125	3.3819	0.00594	0.196	0.1105	N/A	N/A	N/A	N/A
Decorative Platers Convert to Trivalent Chromium (Summer) (ppd)	2029	0.3113	2.2054	3.3982	0.00599	0.196	0.1105	N/A	N/A	N/A	N/A
Decorative Platers Building Enclosure (tpy)	2025	0.00059	0.00445	0.00658	0.00001	0.00044	0.00022	1.0485	0.00017	0.00003	1.0616
Decorative Platers Convert to Trivalent Chromium (tpy)	2029	0.00635	0.0453	0.0693	0.00012	0.00394	0.00225	10.4079	0.00135	0.00015	10.4863

Note: See CalEEMod Outputs for Emission Calculations

Phase	Year	ROG	NOx	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e
Decorative Platers Convert to Trivalent Chromium	2026	0.00648	0.0455	0.0701	0.00012	0.00395	0.00225	10.569	0.00136	0.00016	10.6513
Functional Platers Convert to Trivalent Chromium	2038	0.00498	0.0342	0.0689	0.00013	0.00261	0.00095	10.7988	0.0004	0.00013	10.849
Functional Platers Install Air Pollution Control Devices	2025	0.00073	0.0052	0.0101	0.00002	0.00041	0.00015	1.6574	0.00006	0.00003	1.6684
Functional Platers Building Enclosures	2025	0.00059	0.00445	0.00658	0.00001	0.00044	0.00022	1.0495	0.00017	0.00003	1.0626

Note: See CalEEMod Outputs for Emission Calculations

**Table 6: Maximum Daily Emissions (Pounds Per Day)**

Phase	-	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Decorative Platers Convert to Trivalent Chromium (Winter)	2026	0.3165	2.219	3.4171	0.00603	0.1961	0.1106
Decorative Platers Convert to Trivalent Chromium (Summer)	2026	0.3163	2.2112	3.4369	0.00607	0.1961	0.1106
Functional Platers Convert to Trivalent Chromium (Winter)	2038	0.2445	1.6687	3.3608	0.0062	0.1308	0.0474
Functional Platers Convert to Trivalent Chromium (Summer)	2038	0.2441	1.6622	3.3737	0.00625	0.1308	0.0474
Functional Platers Install Air Pollution Control Devices (Winter)	2025	0.2456	1.7354	3.3793	0.00647	0.1413	0.0507
Functional Platers Install Air Pollution Control Devices (Summer)	2025	0.2453	1.725	3.3918	0.00652	0.1413	0.0507
Functional Platers Building Enclosure (Winter)	2025	0.1202	0.9549	1.5495	0.00329	0.1095	0.0352
Functional Platers Building Enclosure (Summer)	2025	0.2	1.487	2.1944	0.00409	0.1498	0.0733

Note: See CalEEMod Outputs for Emission Calculations

Table 7: Construction Air Pollutant Emissions Compared to Air District Significance Thresholds<sup>a,b,c,d</sup>

<u>District/Year</u>	<u>ROG</u>	<u>NO<sub>x</sub></u>	<u>CO</u>	<u>SO<sub>2</sub></u>	<u>PM<sub>10</sub></u>	<u>PM<sub>2.5</sub></u>
<b>South Coast Air Quality Management District (ppd)</b>						
<u>2025 – Option 1<sup>e</sup></u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>2025 – Option 2<sup>e</sup></u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>2026 – Option 1</u>	<u>11</u>	<u>80</u>	<u>124</u>	<u>&lt;1</u>	<u>7</u>	<u>4</u>
<u>2029 – Option 2</u>	<u>11</u>	<u>80</u>	<u>122</u>	<u>&lt;1</u>	<u>7</u>	<u>4</u>
<u>2038 – Option 1</u>	<u>12</u>	<u>83</u>	<u>169</u>	<u>&lt;1</u>	<u>7</u>	<u>2</u>
<u>Maximum Daily Emissions</u>	<u>12</u>	<u>83</u>	<u>169</u>	<u>&lt;1</u>	<u>7</u>	<u>4</u>
<u>Significance Threshold<sup>f</sup></u>	<u>75</u>	<u>100</u>	<u>550</u>	<u>150</u>	<u>150</u>	<u>55</u>
<u>Exceed Threshold (Yes or No)?</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
<b>Ventura County Air Pollution Control District (ppd)</b>						
<u>2025 – Option 1</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2025 – Option 2</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
<u>2026 – Option 1</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
<u>2029 – Option 2</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
<u>2038 – Option 1</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>Maximum Daily Emissions</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>Significance Threshold<sup>g</sup></u>	<u>25</u>	<u>25</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>Exceed Threshold (Yes or No)?</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
<b>Bay Area Air Quality Management District (ppd)</b>						

<u>District/Year</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
<u>2025 – Option 1</u>	<u>2</u>	<u>14</u>	<u>21</u>	<u>&lt;1</u>	<u>1</u>	<u>1</u>
<u>2025 – Option 2</u>	<u>1</u>	<u>6</u>	<u>9</u>	<u>&lt;1</u>	<u>1</u>	<u>&lt;1</u>
<u>2026 – Option 1</u>	<u>1</u>	<u>9</u>	<u>14</u>	<u>&lt;1</u>	<u>1</u>	<u>0</u>
<u>2029 – Option 2</u>	<u>1</u>	<u>9</u>	<u>14</u>	<u>&lt;1</u>	<u>1</u>	<u>&lt;1</u>
<u>2038 – Option 1</u>	<u>1</u>	<u>10</u>	<u>20</u>	<u>&lt;1</u>	<u>1</u>	<u>&lt;1</u>
<u>Maximum Daily Emissions</u>	<u>2</u>	<u>14</u>	<u>21</u>	<u>&lt;1</u>	<u>1</u>	<u>1</u>
<u>Significance Threshold<sup>h</sup></u>	<u>54</u>	<u>54</u>	<u>N/A</u>	<u>N/A</u>	<u>82</u>	<u>54</u>
<u>Exceed Threshold (Yes or No)?</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
<b><u>San Joaquin Valley Air Pollution Control District (tpy)</u></b>						
<u>2025 – Option 1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2025 – Option 2</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2026 – Option 1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2029 – Option 2</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2038 – Option 1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>Maximum Emissions</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>Significance Threshold<sup>i</sup></u>	<u>10</u>	<u>10</u>	<u>100</u>	<u>27</u>	<u>15</u>	<u>15</u>
<u>Exceed Threshold (Yes or No)?</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
<b><u>San Diego Air Pollution Control District (ppd)</u></b>						
<u>2025 – Option 1</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2025 – Option 2</u>	<u>1</u>	<u>4</u>	<u>7</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2026 – Option 1</u>	<u>1</u>	<u>7</u>	<u>10</u>	<u>&lt;1</u>	<u>1</u>	<u>&lt;1</u>

<u>District/Year</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
<u>2029 – Option 2</u>	<u>1</u>	<u>7</u>	<u>10</u>	<u>&lt;1</u>	<u>1</u>	<u>&lt;1</u>
<u>2038 – Option 1</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>Maximum Daily Emissions</u>	<u>1</u>	<u>7</u>	<u>10</u>	<u>&lt;1</u>	<u>1</u>	<u>&lt;1</u>
<u>Significance Threshold<sup>j</sup></u>	<u>N/A</u>	<u>250</u>	<u>550</u>	<u>250</u>	<u>100</u>	<u>67</u>
<u>Exceed Threshold (Yes or No)?</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
<b><u>Feather River Air Quality Management District (ppd)</u></b>						
<u>2025 – Option 1</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
<u>2025 – Option 2</u>	<u>&lt;1</u>	<u>1</u>	<u>2</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2026 – Option 1</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2029 – Option 2</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2038 – Option 1</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
<u>Maximum Daily Emissions</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>Significance Threshold<sup>k</sup></u>	<u>25</u>	<u>25</u>	<u>N/A</u>	<u>N/A</u>	<u>80</u>	<u>N/A</u>
<u>Exceed Threshold (Yes or No)?</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
<b><u>Sacramento Metropolitan Air Quality Management District (ppd)</u></b>						
<u>2025 – Option 1</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2025 – Option 2</u>	<u>&lt;1</u>	<u>1</u>	<u>2</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2026 – Option 1</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2029 – Option 2</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>2038 – Option 1</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>

<u>District/Year</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>
<u>Maximum Daily Emissions</u>	<u>&lt;1</u>	<u>2</u>	<u>3</u>	<u>&lt;1</u>	<u>&lt;1</u>	<u>&lt;1</u>
<u>Significance Threshold<sup>l</sup></u>	<u>N/A</u>	<u>85</u>	<u>N/A</u>	<u>N/A</u>	<u>80</u>	<u>82</u>
<u>Exceed Threshold (Yes or No)?</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>

Notes:

<sup>a</sup> ppd = pounds per day; tpy = tons per year; ROG = reactive organic gases; NOx = oxides of nitrogen; CO = carbon monoxide; SO<sub>2</sub> = sulfur dioxide; PM<sub>10</sub> = particulate matter 10 micrometers or less in diameter; PM<sub>2.5</sub> = particulate matter 2.5 micrometers or less in diameter.

<sup>b</sup> ppd = pounds per day; tpy = tons per year; ROG = reactive organic gases; Nox = oxides of nitrogen; CO = carbon monoxide; SO<sub>2</sub> = sulfur dioxide; PM<sub>10</sub> = particulate matter 10 micrometers or less in diameter; PM<sub>2.5</sub> = particulate matter 2.5 micrometers or less in diameter.

<sup>c</sup> Option 1 = Decorative chrome plating facilities that comply with the original 2027 phase out date start phasing out the use of hexavalent chromium in 2026, and functional chrome plating facilities install additional controls starting in 2025 and start phasing out the use of hexavalent chromium starting in 2038.

<sup>d</sup> Option 2 = Decorative chrome plating facilities that elect to comply with the alternative phase out pathway start installing building enclosures starting in 2025, and phase out the use of hexavalent chromium starting in 2029.

<sup>e</sup> Since South Coast AQMD already requires building enclosures, it was assumed that chrome plating facilities located in the South Coast AQMD would have already installed the building enclosures required under the Proposed Amendments.

<sup>f</sup> South Coast AQMD. South Coast AQMD Air Quality Significance Thresholds, April 2019, Accessed on March 10, 2022, Accessible at: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>.

<sup>g</sup> Ventura County APCD. Ventura County Air Quality Assessment Guidelines, October 2003, Accessed on March 10, 2022. Accessible at: <http://www.vcapcd.org/pubs/Planning/VCAQGuidelines.pdf>.

<sup>h</sup> Bay Area AQMD. CEQA Air Quality Guidelines, May 2017, Accessed on March 10, 2022, Accessible at: [https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en&rev=0d2d971e661d41f28a56953f1776bdde](https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en&rev=0d2d971e661d41f28a56953f1776bdde).

<sup>i</sup> San Joaquin Valley APCD. Air Quality Thresholds of Significance, March 19, 2015, Accessed on March 10, 2022, Accessible at: <http://www.valleyair.org/transportation/0714-GAMAQI-Criteria-Pollutant-Thresholds-of-Significance.pdf>.

<sup>j</sup> San Diego AQMD. Rule 20.2 New Source Review Non-Major Stationary Sources, Accessed on March 10, 2022, Accessible at: <https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule-20.3.pdf>.

<sup>k</sup> Feather River AQMD. Feather River AQMD Thresholds of Significance. June 7, 2010, Accessed on March 10, 2022, Accessible at <https://www.fraqmd.org/files/658e76309/Chapter+3.pdf>.

<sup>l</sup> Sacramento Metropolitan AQMD. SMAQMD Thresholds of Significance Table, April 2020, Accessed on March 10, 2022, Accessible at: <https://www.airquality.org/LandUseTransportation/Documents/CH2ThresholdsTable4-2020.pd>



<b>Air District/Phase</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>South Coast Air Quality Management District</b>						
<del>Decorative Chrome Plater Facilities Convert to Trivalent Chromium Operations (ppd)</del>	<del>11</del>	<del>80</del>	<del>124</del>	<del>&lt;1</del>	<del>7</del>	<del>4</del>
<del>Functional Chrome Plater Facilities Convert to Trivalent Chromium (ppd)</del>	<del>12</del>	<del>83</del>	<del>169</del>	<del>&lt;1</del>	<del>7</del>	<del>2</del>
<del>Functional Chrome Plater Facilities Install Air Pollution Control Devices and Construction Building Enclosures (ppd)<sup>b</sup></del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
<del>Maximum Daily Emissions (ppd)</del>	<del>12</del>	<del>83</del>	<del>169</del>	<del>&lt;1</del>	<del>7</del>	<del>4</del>
<del>Significance Threshold (ppd)</del>	<del>75</del>	<del>100</del>	<del>550</del>	<del>150</del>	<del>150</del>	<del>55</del>
<del>Exceed Threshold (Yes or No)?<sup>c</sup></del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>	<del>No</del>
<b>Ventura County Air Pollution Control District</b>						
<del>Decorative Chrome Plater Facilities Convert to Trivalent Chromium Operations (ppd)</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
<del>Functional Chrome Plater Facilities Convert to Trivalent Chromium (ppd)</del>	<del>&lt;1</del>	<del>2</del>	<del>3</del>	<del>&lt;1</del>	<del>&lt;1</del>	<del>&lt;1</del>
<del>Functional Chrome Plater Facilities Install Air Pollution Control Devices and Construction Building Enclosures (ppd)</del>	<del>&lt;1</del>	<del>3</del>	<del>6</del>	<del>&lt;1</del>	<del>&lt;1</del>	<del>&lt;1</del>
<del>Maximum Daily Emissions (ppd)</del>	<del>&lt;1</del>	<del>3</del>	<del>6</del>	<del>&lt;1</del>	<del>&lt;1</del>	<del>&lt;1</del>
<del>Significance Threshold (ppd)</del>	<del>25</del>	<del>25</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
<del>Exceed Threshold (Yes or No)?<sup>d</sup></del>	<del>No</del>	<del>No</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>
<b>Bay Area Air Quality Management District</b>						
<del>Decorative Chrome Plater Facilities Convert to Trivalent Chromium Operations (ppd)</del>	<del>1</del>	<del>9</del>	<del>14</del>	<del>&lt;1</del>	<del>1</del>	<del>&lt;1</del>
<del>Functional Chrome Plater Facilities Convert to Trivalent Chromium (ppd)</del>	<del>1</del>	<del>10</del>	<del>20</del>	<del>&lt;1</del>	<del>1</del>	<del>&lt;1</del>
<del>Functional Chrome Plater Facilities Install Air Pollution Control Devices and Construction Building Enclosures (ppd)</del>	<del>1</del>	<del>11</del>	<del>17</del>	<del>&lt;1</del>	<del>1</del>	<del>&lt;1</del>
<del>Maximum Daily Emissions (ppd)</del>	<del>1</del>	<del>11</del>	<del>20</del>	<del>&lt;1</del>	<del>1</del>	<del>&lt;1</del>
<del>Significance Threshold (ppd)</del>	<del>54</del>	<del>54</del>	<del>N/A</del>	<del>N/A</del>	<del>82</del>	<del>54</del>

Exceed Threshold (Yes or No)? <sup>e</sup> -	No	No	N/A	N/A	No	No
<b>San Joaquin Valley Air Pollution Control District</b>	-	-	-	-	-	-
Decorative Chrome Plater Facilities Convert to Trivalent Chromium Operations (tpy)-	<1	<1	<1	<1	<1	<1
Functional Chrome Plater Facilities Convert to Trivalent Chromium (tpy)-	<1	<1	<1	<1	<1	<1
Functional Chrome Plater Facilities Install Air Pollution Control Devices and Construction Building Enclosures (tpy)-	<1	<1	<1	<1	<1	<1
Maximum Annual Emissions (tpy)-	<1	<1	<1	<1	<1	<1
Significance Threshold (tpy)-	10	10	100	27	15	15
Exceed Threshold (Yes or No)? <sup>f</sup> -	No	No	No	No	No	No
<b>San Diego Air Pollution Control District</b>	-	-	-	-	-	-
Decorative Chrome Plater Facilities Convert to Trivalent Chromium Operations (ppd)-	1	7	10	<1	1	<1
Functional Chrome Plater Facilities Install Air Pollution Control Devices and Construction Building Enclosures (ppd)-	<1	2	3	<1	<1	<1
Functional Chrome Plater Facilities Install Air Pollution Control Devices and Construction Building Enclosures (ppd)-	<1	3	6	<1	<1	<1
Maximum Daily Emissions (ppd)-	1	7	10	<1	1	<1
Significance Threshold (ppd)-	N/A	250	550	250	100	67
Exceed Threshold (Yes or No)? <sup>g</sup> -	N/A	No	No	No	No	No
<b>Feather River Air Quality Management District</b>	-	-	-	-	-	-
Decorative Chrome Plater Facilities Convert to Trivalent Chromium Operations (ppd)-	<1	2	3	<1	<1	<1
Functional Chrome Plater Facilities Install Air Pollution Control Devices and Construction Building Enclosures (ppd)-	N/A	N/A	N/A	N/A	N/A	N/A
Functional Chrome Plater Facilities Install Air Pollution Control Devices and Construction Building Enclosures (ppd)-	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Daily Emissions (ppd)-	<1	2	3	<1	<1	<1
Significance Threshold (ppd)-	25	25	N/A	N/A	80	N/A
Exceed Threshold (Yes or No)? <sup>h</sup> -	No	No	N/A	N/A	No	N/A

<b>Sacramento Metropolitan Air Quality Management District</b>						
Decorative Chrome Plater Facilities Convert to Trivalent Chromium Operations (ppd)	<1	2	3	<1	<1	<1
Functional Chrome Plater Facilities Install Air Pollution Control Devices and Construction Building Enclosures (ppd)	<1	2	3	<1	<1	<1
Functional Chrome Plater Facilities Install Air Pollution Control Devices and Construction Building Enclosures (ppd)	<1	3	6	<1	<1	<1
Maximum Daily Emissions (ppd)	<1	2	3	<1	<1	<1
Significance Threshold (ppd)	N/A	85	N/A	N/A	80	82
Exceed Threshold (Yes or No)? <sup>i</sup>	N/A	No	N/A	N/A	No	No

Notes:–

- <sup>a</sup> ppd = pounds per day; tpy = tons per year; ROG = reactive organic gases; NO<sub>x</sub> = oxides of nitrogen; CO = carbon monoxide; SO<sub>2</sub> = sulfur dioxide; PM<sub>10</sub> = particulate matter 10 micrometers or less in diameter; PM<sub>2.5</sub> = particulate matter 2.5 micrometers or less in diameter.
- <sup>b</sup> Since the South Coast Air Quality Management District (SCAQMD) already requires the installation of additional controls identified in the Proposed Amendments, it was assumed that all functional chrome plating facilities would already have relocated their tanks and installed air pollution control devices prior to the implementation of the Proposed Amendments.
- <sup>c</sup> South Coast AQMD. South Coast AQMD Air Quality Significance Thresholds, April 2019, Accessed on March 10, 2022, Accessible at: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>.
- <sup>d</sup> Ventura County APCD. Ventura County Air Quality Assessment Guidelines, October 2003, Accessed on March 10, 2022. Accessible at: <http://www.vcapcd.org/pubs/Planning/VCAQGuidelines.pdf>.
- <sup>e</sup> Bay Area AQMD. CEQA Air Quality Guidelines, May 2017, Accessed on March 10, 2022, Accessible at: [https://www.baaqmd.gov/-/media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017.pdf.pdf?la=en&rev=0d2d971e661d41f28a56953f1776bdde](https://www.baaqmd.gov/-/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017.pdf.pdf?la=en&rev=0d2d971e661d41f28a56953f1776bdde).
- <sup>f</sup> San Joaquin Valley APCD. Air Quality Thresholds of Significance, March 19, 2015, Accessed on March 10, 2022, Accessible at: <http://www.valleyair.org/transportation/0714-GAMAQI-Criteria-Pollutant-Thresholds-of-Significance.pdf>.
- <sup>g</sup> San Diego AQMD. Rule 20.2 New Source Review Non-Major Stationary Sources, Accessed on March 10, 2022, Accessible at: [https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule\\_20.3.pdf](https://www.sdapcd.org/content/dam/sdapcd/documents/rules/current-rules/Rule_20.3.pdf).
- <sup>h</sup> Feather River AQMD. Feather River AQMD Thresholds of Significance. June 7, 2010, Accessed on March 10, 2022, Accessible at <https://www.fraqmd.org/files/658e76309/Chapter+3.pdf>.
- <sup>i</sup> Sacramento Metropolitan AQMD. SMAQMD Thresholds of Significance Table, April 2020, Accessed on March 10, 2022, Accessible at: <https://www.airquality.org/LandUseTransportation/Documents/CH2ThresholdsTable4-2020.pdf>

**Table 8: Amortized Construction GHG Emissions Compared to SMAQMD’s Significance Thresholds<sup>a,b,c</sup>**

Category	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
<b>Decorative Chromium Facilities (statewide)</b>				
Proposed Amendments Option 1 Construction GHG Emissions	539	0	0	543
Proposed Amendments Option 1 Amortized Emissions over 30 Years	18	0	0	18
Proposed Amendments Option 2 Construction GHG Emissions	584	0	0	589
Proposed Amendments Option 2 Amortized Emissions over 30 Years	19	0	0	20
<b>Hard Functional Chromium Facilities (statewide)</b>				
Construction GHG Emissions	837	0	0	842
Amortized Emissions over 30 Years	28	0	0	28
Most Stringent Significance Threshold				1,100
Exceed Threshold (Yes or No)?				No

Notes:

<sup>a</sup> CO<sub>2</sub> = Carbon Dioxide; CH<sub>4</sub> = Methane; N<sub>2</sub>O = Nitrous Oxide.

<sup>b</sup> Option 1 = Decorative chrome plating facilities that comply with the original 2027 phase out date start phasing out the use of hexavalent chromium in 2026, and functional chrome plating facilities install additional controls starting in 2025 and start phasing out the use of hexavalent chromium starting in 2038.

<sup>c</sup> Option 2 = Decorative chrome plating facilities that elect to comply with the alternative phase out pathway start installing building enclosures starting in 2025, and phase out the use of hexavalent chromium starting in 2029.

Category	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
<b>Decorative Chromium Facilities (statewide)</b>	-	-	-	-
Construction GHG Emissions	539	<1	<1	543
Amortized Emissions over 30 Years	18	<1	<1	18
<b>Functional Chromium Facilities (statewide)</b>				
Construction GHG Emissions	702	<1	<1	705
Amortized Emissions over 30 Years	23	<1	<1	23
SMAQMD Significance Threshold				1,100
Exceed Threshold (Yes or No)?				No

Notes:-

\*CO<sub>2</sub> = Carbon Dioxide; CH<sub>4</sub> = Methane; N<sub>2</sub>O = Nitrous Oxide



## CalEEMod Outputs





Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only  
Statewide , Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	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>	54
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Austin Energy				
<b>CO2 Intensity (lb/MW hr)</b>	1083.07	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Assumed converting a facility to trivalent chromium plating would occur over two months and installation additional controls and tank relocation would take 6 days.

Off-road Equipment - Assumed APCD installation would require one aerial lift, one air compressor, one forklift and one welder.

Off-road Equipment - Assumed converting to trivalent chromium operations would require 1 aerial lift, 1 air compressor, 1 forklift and 1 welder.

Off-road Equipment - Assumed installation of building enclosures would require 1 aerial lift, 1 forklift, and 1 welder

Off-road Equipment - Assumed converting to trivalent chromium operations would require 1 aerial lift, 1 air compressor, 1 forklift, and 1 welder.

Trips and VMT - Assumed installation of APCD and converting to trivalent chromium would require 12 worker trips, 2 vendor trips, and 4 haul trips. Assumed installing building enclosures would require 10 worker trips, 2 vendor trips, and 2 haul trips.

Off-road Equipment - Assumed installation of APCD would require 1 aerial lift, 1 air compressor, 1 forklift, and 1 welder.

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	41.00
tblConstructionPhase	NumDays	0.00	41.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00

**2.0 Emissions Summary**

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Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2025	1.5500e-003	0.0113	0.0169	3.0000e-005	6.5000e-004	3.9000e-004	1.0500e-003	1.8000e-004	3.8000e-004	5.6000e-004	0.0000	2.6981	2.6981	3.7000e-004	7.0000e-005	2.7280
2026	6.4500e-003	0.0455	0.0701	1.2000e-004	2.2600e-003	1.6900e-003	3.9500e-003	6.1000e-004	1.6400e-003	2.2500e-003	0.0000	10.5690	10.5690	1.3600e-003	1.6000e-004	10.6513
2038	4.9800e-003	0.0342	0.0689	1.3000e-004	2.2600e-003	3.5000e-004	2.6100e-003	6.1000e-004	3.5000e-004	9.5000e-004	0.0000	10.7988	10.7988	4.0000e-004	1.3000e-004	10.8490
<b>Maximum</b>	<b>6.4500e-003</b>	<b>0.0455</b>	<b>0.0701</b>	<b>1.3000e-004</b>	<b>2.2600e-003</b>	<b>1.6900e-003</b>	<b>3.9500e-003</b>	<b>6.1000e-004</b>	<b>1.6400e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>10.7988</b>	<b>10.7988</b>	<b>1.3600e-003</b>	<b>1.6000e-004</b>	<b>10.8490</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					
2025	1.5500e-003	0.0113	0.0169	3.0000e-005	6.5000e-004	3.9000e-004	1.0500e-003	1.8000e-004	3.8000e-004	5.6000e-004	0.0000	2.6981	2.6981	3.7000e-004	7.0000e-005	2.7280
2026	6.4500e-003	0.0455	0.0701	1.2000e-004	2.2600e-003	1.6900e-003	3.9500e-003	6.1000e-004	1.6400e-003	2.2500e-003	0.0000	10.5690	10.5690	1.3600e-003	1.6000e-004	10.6513
2038	4.9800e-003	0.0342	0.0689	1.3000e-004	2.2600e-003	3.5000e-004	2.6100e-003	6.1000e-004	3.5000e-004	9.5000e-004	0.0000	10.7988	10.7988	4.0000e-004	1.3000e-004	10.8490
<b>Maximum</b>	<b>6.4500e-003</b>	<b>0.0455</b>	<b>0.0701</b>	<b>1.3000e-004</b>	<b>2.2600e-003</b>	<b>1.6900e-003</b>	<b>3.9500e-003</b>	<b>6.1000e-004</b>	<b>1.6400e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>10.7988</b>	<b>10.7988</b>	<b>1.3600e-003</b>	<b>1.6000e-004</b>	<b>10.8490</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	11-3-2025	2-2-2026	0.0154	0.0154
5	2-3-2026	5-2-2026	0.0380	0.0380
52	11-3-2037	2-2-2038	0.0116	0.0116
53	2-3-2038	5-2-2038	0.0280	0.0280
		Highest	0.0380	0.0380

**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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						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>1.0000e-005</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>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						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>1.0000e-005</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>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</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>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	Hard APCD Installation	Building Construction	1/9/2025	1/16/2025	5	6	
2	Hard Building Enclosure	Building Construction	1/1/2025	1/8/2025	5	6	
3	Dec Convert to Tri	Building Construction	1/17/2026	3/16/2026	5	41	

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

4	Hard Convert to Tri	Building Construction	1/17/2038	3/15/2038	5	41
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**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hard APCD Installation	Aerial Lifts	1	4.00	63	0.31
Hard APCD Installation	Air Compressors	1	4.00	78	0.48
Hard APCD Installation	Forklifts	1	4.00	89	0.20
Hard APCD Installation	Welders	1	4.00	46	0.45
Hard Building Enclosure	Aerial Lifts	1	4.00	63	0.31
Hard Building Enclosure	Forklifts	1	4.00	89	0.20
Hard Building Enclosure	Welders	1	4.00	46	0.45
Dec Convert to Tri	Aerial Lifts	1	4.00	63	0.31
Dec Convert to Tri	Air Compressors	1	4.00	78	0.48
Dec Convert to Tri	Forklifts	1	4.00	89	0.20
Dec Convert to Tri	Welders	1	4.00	46	0.45
Hard Convert to Tri	Aerial Lifts	1	4.00	63	0.31
Hard Convert to Tri	Air Compressors	1	4.00	78	0.48
Hard Convert to Tri	Forklifts	1	4.00	89	0.20
Hard Convert to Tri	Welders	1	4.00	46	0.45

**Trips and VMT**

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Hard APCD Installation	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Hard Building Enclosure	3	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Dec Convert to Tri	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Hard Convert to Tri	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Hard APCD Installation - 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	8.5000e-004	6.3100e-003	9.4300e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	1.2157	1.2157	1.9000e-004	0.0000	1.2205
<b>Total</b>	<b>8.5000e-004</b>	<b>6.3100e-003</b>	<b>9.4300e-003</b>	<b>1.0000e-005</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>1.2157</b>	<b>1.2157</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.2205</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard APCD Installation - 2025**

**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	2.5000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1100	0.1100	0.0000	2.0000e-005	0.1152
Vendor	1.0000e-005	2.5000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1109	0.1109	0.0000	2.0000e-005	0.1158
Worker	9.0000e-005	6.0000e-005	7.7000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2130	0.2130	1.0000e-005	1.0000e-005	0.2149
<b>Total</b>	<b>1.0000e-004</b>	<b>5.6000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.4339</b>	<b>0.4339</b>	<b>1.0000e-005</b>	<b>5.0000e-005</b>	<b>0.4459</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	8.5000e-004	6.3100e-003	9.4300e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	1.2157	1.2157	1.9000e-004	0.0000	1.2205
<b>Total</b>	<b>8.5000e-004</b>	<b>6.3100e-003</b>	<b>9.4300e-003</b>	<b>1.0000e-005</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>1.2157</b>	<b>1.2157</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.2205</b>



Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard APCD Installation - 2025**

**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	2.5000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1100	0.1100	0.0000	2.0000e-005	0.1152
Vendor	1.0000e-005	2.5000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1109	0.1109	0.0000	2.0000e-005	0.1158
Worker	9.0000e-005	6.0000e-005	7.7000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2130	0.2130	1.0000e-005	1.0000e-005	0.2149
<b>Total</b>	<b>1.0000e-004</b>	<b>5.6000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.4339</b>	<b>0.4339</b>	<b>1.0000e-005</b>	<b>5.0000e-005</b>	<b>0.4459</b>

**3.3 Hard Building Enclosure - 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	5.1000e-004	4.0200e-003	5.8100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.7051	0.7051	1.6000e-004	0.0000	0.7092
<b>Total</b>	<b>5.1000e-004</b>	<b>4.0200e-003</b>	<b>5.8100e-003</b>	<b>1.0000e-005</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.7051</b>	<b>0.7051</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.7092</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Hard Building Enclosure - 2025**

**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	1.3000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0550	0.0550	0.0000	1.0000e-005	0.0576
Vendor	1.0000e-005	2.5000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1109	0.1109	0.0000	2.0000e-005	0.1158
Worker	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1775	0.1775	0.0000	0.0000	0.1790
<b>Total</b>	<b>8.0000e-005</b>	<b>4.3000e-004</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3434</b>	<b>0.3434</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.3525</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	5.1000e-004	4.0200e-003	5.8100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.7051	0.7051	1.6000e-004	0.0000	0.7092
<b>Total</b>	<b>5.1000e-004</b>	<b>4.0200e-003</b>	<b>5.8100e-003</b>	<b>1.0000e-005</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.7051</b>	<b>0.7051</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.7092</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Hard Building Enclosure - 2025**

**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	1.3000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0550	0.0550	0.0000	1.0000e-005	0.0576
Vendor	1.0000e-005	2.5000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1109	0.1109	0.0000	2.0000e-005	0.1158
Worker	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1775	0.1775	0.0000	0.0000	0.1790
<b>Total</b>	<b>8.0000e-005</b>	<b>4.3000e-004</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3434</b>	<b>0.3434</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.3525</b>

**3.4 Dec Convert to Tri - 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	5.8300e-003	0.0431	0.0645	1.0000e-004		1.6600e-003	1.6600e-003		1.6200e-003	1.6200e-003	0.0000	8.3073	8.3073	1.3100e-003	0.0000	8.3400
<b>Total</b>	<b>5.8300e-003</b>	<b>0.0431</b>	<b>0.0645</b>	<b>1.0000e-004</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>		<b>1.6200e-003</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>8.3073</b>	<b>8.3073</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>8.3400</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Dec Convert to Tri - 2026**

**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	2.5000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1076	0.1076	0.0000	2.0000e-005	0.1128
Vendor	4.0000e-005	1.7100e-003	5.7000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7434	0.7434	1.0000e-005	1.1000e-004	0.7761
Worker	5.7000e-004	3.5000e-004	4.9700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4106	1.4106	4.0000e-005	4.0000e-005	1.4225
<b>Total</b>	<b>6.1000e-004</b>	<b>2.3100e-003</b>	<b>5.6000e-003</b>	<b>3.0000e-005</b>	<b>2.2600e-003</b>	<b>2.0000e-005</b>	<b>2.2900e-003</b>	<b>6.1000e-004</b>	<b>2.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.2616</b>	<b>2.2616</b>	<b>5.0000e-005</b>	<b>1.7000e-004</b>	<b>2.3113</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	5.8300e-003	0.0431	0.0645	1.0000e-004		1.6600e-003	1.6600e-003		1.6200e-003	1.6200e-003	0.0000	8.3073	8.3073	1.3100e-003	0.0000	8.3400
<b>Total</b>	<b>5.8300e-003</b>	<b>0.0431</b>	<b>0.0645</b>	<b>1.0000e-004</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>		<b>1.6200e-003</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>8.3073</b>	<b>8.3073</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>8.3400</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Dec Convert to Tri - 2026**

**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	2.5000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1076	0.1076	0.0000	2.0000e-005	0.1128
Vendor	4.0000e-005	1.7100e-003	5.7000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.7434	0.7434	1.0000e-005	1.1000e-004	0.7761
Worker	5.7000e-004	3.5000e-004	4.9700e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9700e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.4106	1.4106	4.0000e-005	4.0000e-005	1.4225
<b>Total</b>	<b>6.1000e-004</b>	<b>2.3100e-003</b>	<b>5.6000e-003</b>	<b>3.0000e-005</b>	<b>2.2600e-003</b>	<b>2.0000e-005</b>	<b>2.2900e-003</b>	<b>6.1000e-004</b>	<b>2.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.2616</b>	<b>2.2616</b>	<b>5.0000e-005</b>	<b>1.7000e-004</b>	<b>2.3113</b>

**3.5 Hard Convert to Tri - 2038**

**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	4.6000e-003	0.0321	0.0648	1.1000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	8.8979	8.8979	3.7000e-004	0.0000	8.9071
<b>Total</b>	<b>4.6000e-003</b>	<b>0.0321</b>	<b>0.0648</b>	<b>1.1000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>8.8979</b>	<b>8.8979</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>8.9071</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Hard Convert to Tri - 2038**

**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	2.3000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0903	0.0903	0.0000	1.0000e-005	0.0946
Vendor	4.0000e-005	1.6300e-003	5.5000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.6387	0.6387	1.0000e-005	9.0000e-005	0.6669
Worker	3.4000e-004	1.9000e-004	3.4900e-003	1.0000e-005	1.9600e-003	1.0000e-005	1.9600e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	1.1719	1.1719	2.0000e-005	3.0000e-005	1.1805
<b>Total</b>	<b>3.8000e-004</b>	<b>2.0500e-003</b>	<b>4.1000e-003</b>	<b>2.0000e-005</b>	<b>2.2600e-003</b>	<b>2.0000e-005</b>	<b>2.2800e-003</b>	<b>6.1000e-004</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>1.9009</b>	<b>1.9009</b>	<b>3.0000e-005</b>	<b>1.3000e-004</b>	<b>1.9419</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	4.6000e-003	0.0321	0.0648	1.1000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	8.8979	8.8979	3.7000e-004	0.0000	8.9070
<b>Total</b>	<b>4.6000e-003</b>	<b>0.0321</b>	<b>0.0648</b>	<b>1.1000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>8.8979</b>	<b>8.8979</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>8.9070</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Hard Convert to Tri - 2038**

**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	2.3000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0903	0.0903	0.0000	1.0000e-005	0.0946
Vendor	4.0000e-005	1.6300e-003	5.5000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.6387	0.6387	1.0000e-005	9.0000e-005	0.6669
Worker	3.4000e-004	1.9000e-004	3.4900e-003	1.0000e-005	1.9600e-003	1.0000e-005	1.9600e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	1.1719	1.1719	2.0000e-005	3.0000e-005	1.1805
<b>Total</b>	<b>3.8000e-004</b>	<b>2.0500e-003</b>	<b>4.1000e-003</b>	<b>2.0000e-005</b>	<b>2.2600e-003</b>	<b>2.0000e-005</b>	<b>2.2800e-003</b>	<b>6.1000e-004</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>1.9009</b>	<b>1.9009</b>	<b>3.0000e-005</b>	<b>1.3000e-004</b>	<b>1.9419</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.534553	0.059172	0.184219	0.133650	0.026610	0.006752	0.011227	0.011343	0.000804	0.000471	0.026281	0.000961	0.003957



Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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



Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	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>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</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>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</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>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	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>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	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>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	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>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	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>

**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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Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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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Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only**

**Statewide , Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	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>	54
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Austin Energy				
<b>CO2 Intensity (lb/MW hr)</b>	1083.07	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Assumed converting a facility to trivalent chromium plating would occur over two months and installation additional controls and tank relocation would take 6 days.

Off-road Equipment - Assumed APCD installation would require one aerial lift, one air compressor, one forklift and one welder.

Off-road Equipment - Assumed converting to trivalent chromium operations would require 1 aerial lift, 1 air compressor, 1 forklift and 1 welder.

Off-road Equipment - Assumed installation of building enclosures would require 1 aerial lift, 1 forklift, and 1 welder

Off-road Equipment - Assumed converting to trivalent chromium operations would require 1 aerial lift, 1 air compressor, 1 forklift, and 1 welder.

Trips and VMT - Assumed installation of APCD and converting to trivalent chromium would require 12 worker trips, 2 vendor trips, and 4 haul trips. Assumed installing building enclosures would require 10 worker trips, 2 vendor trips, and 2 haul trips.

Off-road Equipment - Assumed installation of APCD would require 1 aerial lift, 1 air compressor, 1 forklift, and 1 welder.

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	41.00
tblConstructionPhase	NumDays	0.00	41.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00

**2.0 Emissions Summary**

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Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2025	0.3196	2.2823	3.4722	6.4300e-003	0.1238	0.0829	0.2067	0.0333	0.0807	0.1140	0.0000	610.7100	610.7100	0.0742	0.0143	616.8216
2026	0.3163	2.2112	3.4369	6.0700e-003	0.1138	0.0822	0.1961	0.0305	0.0801	0.1106	0.0000	572.7582	572.7582	0.0731	8.5800e-003	577.1430
2038	0.2441	1.6622	3.3737	6.2500e-003	0.1138	0.0169	0.1308	0.0305	0.0169	0.0474	0.0000	584.3916	584.3916	0.0215	7.1400e-003	587.0584
<b>Maximum</b>	<b>0.3196</b>	<b>2.2823</b>	<b>3.4722</b>	<b>6.4300e-003</b>	<b>0.1238</b>	<b>0.0829</b>	<b>0.2067</b>	<b>0.0333</b>	<b>0.0807</b>	<b>0.1140</b>	<b>0.0000</b>	<b>610.7100</b>	<b>610.7100</b>	<b>0.0742</b>	<b>0.0143</b>	<b>616.8216</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					
2025	0.3196	2.2823	3.4722	6.4300e-003	0.1238	0.0829	0.2067	0.0333	0.0807	0.1140	0.0000	610.7100	610.7100	0.0742	0.0143	616.8216
2026	0.3163	2.2112	3.4369	6.0700e-003	0.1138	0.0822	0.1961	0.0305	0.0801	0.1106	0.0000	572.7582	572.7582	0.0731	8.5800e-003	577.1430
2038	0.2441	1.6622	3.3737	6.2500e-003	0.1138	0.0169	0.1308	0.0305	0.0169	0.0474	0.0000	584.3916	584.3916	0.0215	7.1400e-003	587.0584
<b>Maximum</b>	<b>0.3196</b>	<b>2.2823</b>	<b>3.4722</b>	<b>6.4300e-003</b>	<b>0.1238</b>	<b>0.0829</b>	<b>0.2067</b>	<b>0.0333</b>	<b>0.0807</b>	<b>0.1140</b>	<b>0.0000</b>	<b>610.7100</b>	<b>610.7100</b>	<b>0.0742</b>	<b>0.0143</b>	<b>616.8216</b>



Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
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	0.0000	0.0000	0.0000	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>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
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	0.0000	0.0000	0.0000	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>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Hard APCD Installation	Building Construction	1/9/2025	1/16/2025	5	6	
2	Hard Building Enclosure	Building Construction	1/1/2025	1/8/2025	5	6	
3	Dec Convert to Tri	Building Construction	1/17/2026	3/16/2026	5	41	
4	Hard Convert to Tri	Building Construction	1/17/2038	3/15/2038	5	41	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hard APCD Installation	Aerial Lifts	1	4.00	63	0.31
Hard APCD Installation	Air Compressors	1	4.00	78	0.48
Hard APCD Installation	Forklifts	1	4.00	89	0.20
Hard APCD Installation	Welders	1	4.00	46	0.45
Hard Building Enclosure	Aerial Lifts	1	4.00	63	0.31
Hard Building Enclosure	Forklifts	1	4.00	89	0.20
Hard Building Enclosure	Welders	1	4.00	46	0.45

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Dec Convert to Tri	Aerial Lifts	1	4.00	63	0.31
Dec Convert to Tri	Air Compressors	1	4.00	78	0.48
Dec Convert to Tri	Forklifts	1	4.00	89	0.20
Dec Convert to Tri	Welders	1	4.00	46	0.45
Hard Convert to Tri	Aerial Lifts	1	4.00	63	0.31
Hard Convert to Tri	Air Compressors	1	4.00	78	0.48
Hard Convert to Tri	Forklifts	1	4.00	89	0.20
Hard Convert to Tri	Welders	1	4.00	46	0.45

**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
Hard APCD Installation	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Hard Building Enclosure	3	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Dec Convert to Tri	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Hard Convert to Tri	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard APCD Installation - 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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790		446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>		<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</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	1.4900e-003	0.0804	0.0206	3.7000e-004	0.0117	7.4000e-004	0.0124	3.2000e-003	7.1000e-004	3.9100e-003		40.3844	40.3844	1.1400e-003	6.3800e-003	42.3154
Vendor	2.3000e-003	0.0806	0.0279	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.7295	40.7295	7.2000e-004	5.9500e-003	42.5197
Worker	0.0315	0.0171	0.2793	8.2000e-004	0.0986	4.9000e-004	0.0991	0.0262	4.5000e-004	0.0266		82.8999	82.8999	2.0300e-003	1.9500e-003	83.5321
<b>Total</b>	<b>0.0353</b>	<b>0.1782</b>	<b>0.3279</b>	<b>1.5700e-003</b>	<b>0.1238</b>	<b>1.7600e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>1.6700e-003</b>	<b>0.0349</b>		<b>164.0138</b>	<b>164.0138</b>	<b>3.8900e-003</b>	<b>0.0143</b>	<b>168.3672</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard APCD Installation - 2025**

**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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790	0.0000	446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>	<b>0.0000</b>	<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</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	1.4900e-003	0.0804	0.0206	3.7000e-004	0.0117	7.4000e-004	0.0124	3.2000e-003	7.1000e-004	3.9100e-003		40.3844	40.3844	1.1400e-003	6.3800e-003	42.3154
Vendor	2.3000e-003	0.0806	0.0279	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.7295	40.7295	7.2000e-004	5.9500e-003	42.5197
Worker	0.0315	0.0171	0.2793	8.2000e-004	0.0986	4.9000e-004	0.0991	0.0262	4.5000e-004	0.0266		82.8999	82.8999	2.0300e-003	1.9500e-003	83.5321
<b>Total</b>	<b>0.0353</b>	<b>0.1782</b>	<b>0.3279</b>	<b>1.5700e-003</b>	<b>0.1238</b>	<b>1.7600e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>1.6700e-003</b>	<b>0.0349</b>		<b>164.0138</b>	<b>164.0138</b>	<b>3.8900e-003</b>	<b>0.0143</b>	<b>168.3672</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Hard Building Enclosure - 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	0.1704	1.3405	1.9382	2.8800e-003		0.0468	0.0468		0.0447	0.0447		259.0642	259.0642	0.0601		260.5665
<b>Total</b>	<b>0.1704</b>	<b>1.3405</b>	<b>1.9382</b>	<b>2.8800e-003</b>		<b>0.0468</b>	<b>0.0468</b>		<b>0.0447</b>	<b>0.0447</b>		<b>259.0642</b>	<b>259.0642</b>	<b>0.0601</b>		<b>260.5665</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	7.5000e-004	0.0402	0.0103	1.9000e-004	5.8400e-003	3.7000e-004	6.2100e-003	1.6000e-003	3.5000e-004	1.9500e-003		20.1922	20.1922	5.7000e-004	3.1900e-003	21.1577
Vendor	2.3000e-003	0.0806	0.0279	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.7295	40.7295	7.2000e-004	5.9500e-003	42.5197
Worker	0.0263	0.0143	0.2328	6.8000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.7000e-004	0.0222		69.0832	69.0832	1.7000e-003	1.6300e-003	69.6100
<b>Total</b>	<b>0.0293</b>	<b>0.1351</b>	<b>0.2710</b>	<b>1.2500e-003</b>	<b>0.1015</b>	<b>1.3100e-003</b>	<b>0.1028</b>	<b>0.0273</b>	<b>1.2300e-003</b>	<b>0.0285</b>		<b>130.0049</b>	<b>130.0049</b>	<b>2.9900e-003</b>	<b>0.0108</b>	<b>133.2875</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Hard Building Enclosure - 2025**

**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	0.1704	1.3405	1.9382	2.8800e-003		0.0468	0.0468		0.0447	0.0447	0.0000	259.0642	259.0642	0.0601		260.5665
<b>Total</b>	<b>0.1704</b>	<b>1.3405</b>	<b>1.9382</b>	<b>2.8800e-003</b>		<b>0.0468</b>	<b>0.0468</b>		<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>259.0642</b>	<b>259.0642</b>	<b>0.0601</b>		<b>260.5665</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	7.5000e-004	0.0402	0.0103	1.9000e-004	5.8400e-003	3.7000e-004	6.2100e-003	1.6000e-003	3.5000e-004	1.9500e-003		20.1922	20.1922	5.7000e-004	3.1900e-003	21.1577
Vendor	2.3000e-003	0.0806	0.0279	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.7295	40.7295	7.2000e-004	5.9500e-003	42.5197
Worker	0.0263	0.0143	0.2328	6.8000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.7000e-004	0.0222		69.0832	69.0832	1.7000e-003	1.6300e-003	69.6100
<b>Total</b>	<b>0.0293</b>	<b>0.1351</b>	<b>0.2710</b>	<b>1.2500e-003</b>	<b>0.1015</b>	<b>1.3100e-003</b>	<b>0.1028</b>	<b>0.0273</b>	<b>1.2300e-003</b>	<b>0.0285</b>		<b>130.0049</b>	<b>130.0049</b>	<b>2.9900e-003</b>	<b>0.0108</b>	<b>133.2875</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Dec Convert to Tri - 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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790		446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>		<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</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	2.2000e-004	0.0116	3.0300e-003	5.0000e-005	1.7100e-003	1.1000e-004	1.8200e-003	4.7000e-004	1.0000e-004	5.7000e-004		5.7838	5.7838	1.7000e-004	9.1000e-004	6.0605
Vendor	2.2500e-003	0.0799	0.0275	3.7000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.0000e-004	4.4100e-003		39.9402	39.9402	7.2000e-004	5.8300e-003	41.6960
Worker	0.0296	0.0155	0.2622	7.9000e-004	0.0986	4.6000e-004	0.0990	0.0262	4.3000e-004	0.0266		80.3379	80.3379	1.8500e-003	1.8400e-003	80.9320
<b>Total</b>	<b>0.0321</b>	<b>0.1071</b>	<b>0.2926</b>	<b>1.2100e-003</b>	<b>0.1138</b>	<b>1.1000e-003</b>	<b>0.1149</b>	<b>0.0305</b>	<b>1.0300e-003</b>	<b>0.0316</b>		<b>126.0619</b>	<b>126.0619</b>	<b>2.7400e-003</b>	<b>8.5800e-003</b>	<b>128.6885</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Dec Convert to Tri - 2026**

**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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790	0.0000	446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>	<b>0.0000</b>	<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</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	2.2000e-004	0.0116	3.0300e-003	5.0000e-005	1.7100e-003	1.1000e-004	1.8200e-003	4.7000e-004	1.0000e-004	5.7000e-004		5.7838	5.7838	1.7000e-004	9.1000e-004	6.0605
Vendor	2.2500e-003	0.0799	0.0275	3.7000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.0000e-004	4.4100e-003		39.9402	39.9402	7.2000e-004	5.8300e-003	41.6960
Worker	0.0296	0.0155	0.2622	7.9000e-004	0.0986	4.6000e-004	0.0990	0.0262	4.3000e-004	0.0266		80.3379	80.3379	1.8500e-003	1.8400e-003	80.9320
<b>Total</b>	<b>0.0321</b>	<b>0.1071</b>	<b>0.2926</b>	<b>1.2100e-003</b>	<b>0.1138</b>	<b>1.1000e-003</b>	<b>0.1149</b>	<b>0.0305</b>	<b>1.0300e-003</b>	<b>0.0316</b>		<b>126.0619</b>	<b>126.0619</b>	<b>2.7400e-003</b>	<b>8.5800e-003</b>	<b>128.6885</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Hard Convert to Tri - 2038**

**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	0.2245	1.5668	3.1606	5.2300e-003		0.0161	0.0161		0.0161	0.0161		478.4517	478.4517	0.0197		478.9437
<b>Total</b>	<b>0.2245</b>	<b>1.5668</b>	<b>3.1606</b>	<b>5.2300e-003</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0161</b>	<b>0.0161</b>		<b>478.4517</b>	<b>478.4517</b>	<b>0.0197</b>		<b>478.9437</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	2.1000e-004	0.0108	3.1100e-003	4.0000e-005	1.7100e-003	1.0000e-004	1.8100e-003	4.7000e-004	9.0000e-005	5.6000e-004		4.8521	4.8521	1.7000e-004	7.7000e-004	5.0853
Vendor	2.0500e-003	0.0761	0.0262	3.2000e-004	0.0136	4.9000e-004	0.0141	3.9000e-003	4.7000e-004	4.3700e-003		34.3142	34.3142	7.3000e-004	5.0100e-003	35.8252
Worker	0.0174	8.5900e-003	0.1837	6.6000e-004	0.0986	2.6000e-004	0.0988	0.0262	2.4000e-004	0.0264		66.7736	66.7736	9.5000e-004	1.3600e-003	67.2042
<b>Total</b>	<b>0.0196</b>	<b>0.0954</b>	<b>0.2131</b>	<b>1.0200e-003</b>	<b>0.1138</b>	<b>8.5000e-004</b>	<b>0.1147</b>	<b>0.0305</b>	<b>8.0000e-004</b>	<b>0.0313</b>		<b>105.9400</b>	<b>105.9400</b>	<b>1.8500e-003</b>	<b>7.1400e-003</b>	<b>108.1147</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Hard Convert to Tri - 2038**

**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	0.2245	1.5668	3.1606	5.2300e-003		0.0161	0.0161		0.0161	0.0161	0.0000	478.4517	478.4517	0.0197		478.9437
<b>Total</b>	<b>0.2245</b>	<b>1.5668</b>	<b>3.1606</b>	<b>5.2300e-003</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0161</b>	<b>0.0161</b>	<b>0.0000</b>	<b>478.4517</b>	<b>478.4517</b>	<b>0.0197</b>		<b>478.9437</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	2.1000e-004	0.0108	3.1100e-003	4.0000e-005	1.7100e-003	1.0000e-004	1.8100e-003	4.7000e-004	9.0000e-005	5.6000e-004		4.8521	4.8521	1.7000e-004	7.7000e-004	5.0853
Vendor	2.0500e-003	0.0761	0.0262	3.2000e-004	0.0136	4.9000e-004	0.0141	3.9000e-003	4.7000e-004	4.3700e-003		34.3142	34.3142	7.3000e-004	5.0100e-003	35.8252
Worker	0.0174	8.5900e-003	0.1837	6.6000e-004	0.0986	2.6000e-004	0.0988	0.0262	2.4000e-004	0.0264		66.7736	66.7736	9.5000e-004	1.3600e-003	67.2042
<b>Total</b>	<b>0.0196</b>	<b>0.0954</b>	<b>0.2131</b>	<b>1.0200e-003</b>	<b>0.1138</b>	<b>8.5000e-004</b>	<b>0.1147</b>	<b>0.0305</b>	<b>8.0000e-004</b>	<b>0.0313</b>		<b>105.9400</b>	<b>105.9400</b>	<b>1.8500e-003</b>	<b>7.1400e-003</b>	<b>108.1147</b>



Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.534553	0.059172	0.184219	0.133650	0.026610	0.006752	0.011227	0.011343	0.000804	0.000471	0.026281	0.000961	0.003957

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
User Defined Industrial	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>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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	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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Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only  
Statewide , Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	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>	54
<b>Climate Zone</b>	11	<b>Operational Year</b>	2024		
<b>Utility Company</b>	Austin Energy				
<b>CO2 Intensity (lb/MW hr)</b>	1083.07	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Assumed converting a facility to trivalent chromium plating would occur over two months and installation additional controls and tank relocation would take 6 days.

Off-road Equipment - Assumed APCD installation would require one aerial lift, one air compressor, one forklift and one welder.

Off-road Equipment - Assumed converting to trivalent chromium operations would require 1 aerial lift, 1 air compressor, 1 forklift and 1 welder.

Off-road Equipment - Assumed installation of building enclosures would require 1 aerial lift, 1 forklift, and 1 welder

Off-road Equipment - Assumed converting to trivalent chromium operations would require 1 aerial lift, 1 air compressor, 1 forklift, and 1 welder.

Trips and VMT - Assumed installation of APCD and converting to trivalent chromium would require 12 worker trips, 2 vendor trips, and 4 haul trips. Assumed installing building enclosures would require 10 worker trips, 2 vendor trips, and 2 haul trips.

Off-road Equipment - Assumed installation of APCD would require 1 aerial lift, 1 air compressor, 1 forklift, and 1 welder.

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	41.00
tblConstructionPhase	NumDays	0.00	41.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00

**2.0 Emissions Summary**

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Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2025	0.3196	2.2945	3.4509	6.3700e-003	0.1238	0.0829	0.2067	0.0333	0.0807	0.1140	0.0000	604.9531	604.9531	0.0744	0.0145	611.1311
2026	0.3165	2.2190	3.4171	6.0300e-003	0.1138	0.0822	0.1961	0.0305	0.0801	0.1106	0.0000	567.1408	567.1408	0.0732	8.7800e-003	571.5862
2038	0.2445	1.6687	3.3608	6.2000e-003	0.1138	0.0169	0.1308	0.0305	0.0169	0.0474	0.0000	579.6877	579.6877	0.0216	7.2800e-003	582.3989
<b>Maximum</b>	<b>0.3196</b>	<b>2.2945</b>	<b>3.4509</b>	<b>6.3700e-003</b>	<b>0.1238</b>	<b>0.0829</b>	<b>0.2067</b>	<b>0.0333</b>	<b>0.0807</b>	<b>0.1140</b>	<b>0.0000</b>	<b>604.9531</b>	<b>604.9531</b>	<b>0.0744</b>	<b>0.0145</b>	<b>611.1311</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					
2025	0.3196	2.2945	3.4509	6.3700e-003	0.1238	0.0829	0.2067	0.0333	0.0807	0.1140	0.0000	604.9531	604.9531	0.0744	0.0145	611.1311
2026	0.3165	2.2190	3.4171	6.0300e-003	0.1138	0.0822	0.1961	0.0305	0.0801	0.1106	0.0000	567.1408	567.1408	0.0732	8.7800e-003	571.5862
2038	0.2445	1.6687	3.3608	6.2000e-003	0.1138	0.0169	0.1308	0.0305	0.0169	0.0474	0.0000	579.6877	579.6877	0.0216	7.2800e-003	582.3989
<b>Maximum</b>	<b>0.3196</b>	<b>2.2945</b>	<b>3.4509</b>	<b>6.3700e-003</b>	<b>0.1238</b>	<b>0.0829</b>	<b>0.2067</b>	<b>0.0333</b>	<b>0.0807</b>	<b>0.1140</b>	<b>0.0000</b>	<b>604.9531</b>	<b>604.9531</b>	<b>0.0744</b>	<b>0.0145</b>	<b>611.1311</b>



Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
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	0.0000	0.0000	0.0000	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>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
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	0.0000	0.0000	0.0000	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>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Hard APCD Installation	Building Construction	1/9/2025	1/16/2025	5	6	
2	Hard Building Enclosure	Building Construction	1/1/2025	1/8/2025	5	6	
3	Dec Convert to Tri	Building Construction	1/17/2026	3/16/2026	5	41	
4	Hard Convert to Tri	Building Construction	1/17/2038	3/15/2038	5	41	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hard APCD Installation	Aerial Lifts	1	4.00	63	0.31
Hard APCD Installation	Air Compressors	1	4.00	78	0.48
Hard APCD Installation	Forklifts	1	4.00	89	0.20
Hard APCD Installation	Welders	1	4.00	46	0.45
Hard Building Enclosure	Aerial Lifts	1	4.00	63	0.31
Hard Building Enclosure	Forklifts	1	4.00	89	0.20
Hard Building Enclosure	Welders	1	4.00	46	0.45

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Dec Convert to Tri	Aerial Lifts	1	4.00	63	0.31
Dec Convert to Tri	Air Compressors	1	4.00	78	0.48
Dec Convert to Tri	Forklifts	1	4.00	89	0.20
Dec Convert to Tri	Welders	1	4.00	46	0.45
Hard Convert to Tri	Aerial Lifts	1	4.00	63	0.31
Hard Convert to Tri	Air Compressors	1	4.00	78	0.48
Hard Convert to Tri	Forklifts	1	4.00	89	0.20
Hard Convert to Tri	Welders	1	4.00	46	0.45

**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
Hard APCD Installation	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Hard Building Enclosure	3	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Dec Convert to Tri	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Hard Convert to Tri	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard APCD Installation - 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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790		446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>		<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</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	1.3900e-003	0.0853	0.0210	3.7000e-004	0.0117	7.4000e-004	0.0124	3.2000e-003	7.1000e-004	3.9100e-003		40.4356	40.4356	1.1400e-003	6.3900e-003	42.3690
Vendor	2.1900e-003	0.0855	0.0289	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.8069	40.8069	7.2000e-004	5.9600e-003	42.6020
Worker	0.0318	0.0197	0.2568	7.6000e-004	0.0986	4.9000e-004	0.0991	0.0262	4.5000e-004	0.0266		77.0144	77.0144	2.2000e-003	2.1400e-003	77.7058
<b>Total</b>	<b>0.0354</b>	<b>0.1904</b>	<b>0.3066</b>	<b>1.5100e-003</b>	<b>0.1238</b>	<b>1.7600e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>1.6700e-003</b>	<b>0.0349</b>		<b>158.2569</b>	<b>158.2569</b>	<b>4.0600e-003</b>	<b>0.0145</b>	<b>162.6767</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard APCD Installation - 2025**

**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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790	0.0000	446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>	<b>0.0000</b>	<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</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	1.3900e-003	0.0853	0.0210	3.7000e-004	0.0117	7.4000e-004	0.0124	3.2000e-003	7.1000e-004	3.9100e-003		40.4356	40.4356	1.1400e-003	6.3900e-003	42.3690
Vendor	2.1900e-003	0.0855	0.0289	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.8069	40.8069	7.2000e-004	5.9600e-003	42.6020
Worker	0.0318	0.0197	0.2568	7.6000e-004	0.0986	4.9000e-004	0.0991	0.0262	4.5000e-004	0.0266		77.0144	77.0144	2.2000e-003	2.1400e-003	77.7058
<b>Total</b>	<b>0.0354</b>	<b>0.1904</b>	<b>0.3066</b>	<b>1.5100e-003</b>	<b>0.1238</b>	<b>1.7600e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>1.6700e-003</b>	<b>0.0349</b>		<b>158.2569</b>	<b>158.2569</b>	<b>4.0600e-003</b>	<b>0.0145</b>	<b>162.6767</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Hard Building Enclosure - 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	0.1704	1.3405	1.9382	2.8800e-003		0.0468	0.0468		0.0447	0.0447		259.0642	259.0642	0.0601		260.5665
<b>Total</b>	<b>0.1704</b>	<b>1.3405</b>	<b>1.9382</b>	<b>2.8800e-003</b>		<b>0.0468</b>	<b>0.0468</b>		<b>0.0447</b>	<b>0.0447</b>		<b>259.0642</b>	<b>259.0642</b>	<b>0.0601</b>		<b>260.5665</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	6.9000e-004	0.0426	0.0105	1.9000e-004	5.8400e-003	3.7000e-004	6.2100e-003	1.6000e-003	3.5000e-004	1.9500e-003		20.2178	20.2178	5.7000e-004	3.2000e-003	21.1845
Vendor	2.1900e-003	0.0855	0.0289	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.8069	40.8069	7.2000e-004	5.9600e-003	42.6020
Worker	0.0265	0.0164	0.2140	6.3000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.7000e-004	0.0222		64.1786	64.1786	1.8300e-003	1.7800e-003	64.7548
<b>Total</b>	<b>0.0294</b>	<b>0.1445</b>	<b>0.2534</b>	<b>1.2000e-003</b>	<b>0.1015</b>	<b>1.3100e-003</b>	<b>0.1029</b>	<b>0.0273</b>	<b>1.2300e-003</b>	<b>0.0285</b>		<b>125.2033</b>	<b>125.2033</b>	<b>3.1200e-003</b>	<b>0.0109</b>	<b>128.5412</b>



Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Hard Building Enclosure - 2025**

**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	0.1704	1.3405	1.9382	2.8800e-003		0.0468	0.0468		0.0447	0.0447	0.0000	259.0642	259.0642	0.0601		260.5665
<b>Total</b>	<b>0.1704</b>	<b>1.3405</b>	<b>1.9382</b>	<b>2.8800e-003</b>		<b>0.0468</b>	<b>0.0468</b>		<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>259.0642</b>	<b>259.0642</b>	<b>0.0601</b>		<b>260.5665</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	6.9000e-004	0.0426	0.0105	1.9000e-004	5.8400e-003	3.7000e-004	6.2100e-003	1.6000e-003	3.5000e-004	1.9500e-003		20.2178	20.2178	5.7000e-004	3.2000e-003	21.1845
Vendor	2.1900e-003	0.0855	0.0289	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.8069	40.8069	7.2000e-004	5.9600e-003	42.6020
Worker	0.0265	0.0164	0.2140	6.3000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.7000e-004	0.0222		64.1786	64.1786	1.8300e-003	1.7800e-003	64.7548
<b>Total</b>	<b>0.0294</b>	<b>0.1445</b>	<b>0.2534</b>	<b>1.2000e-003</b>	<b>0.1015</b>	<b>1.3100e-003</b>	<b>0.1029</b>	<b>0.0273</b>	<b>1.2300e-003</b>	<b>0.0285</b>		<b>125.2033</b>	<b>125.2033</b>	<b>3.1200e-003</b>	<b>0.0109</b>	<b>128.5412</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Dec Convert to Tri - 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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790		446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>		<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</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	2.0000e-004	0.0123	3.0800e-003	5.0000e-005	1.7100e-003	1.1000e-004	1.8200e-003	4.7000e-004	1.0000e-004	5.7000e-004		5.7912	5.7912	1.7000e-004	9.2000e-004	6.0683
Vendor	2.1400e-003	0.0847	0.0284	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.0170	40.0170	7.2000e-004	5.8500e-003	41.7775
Worker	0.0299	0.0178	0.2413	7.4000e-004	0.0986	4.6000e-004	0.0990	0.0262	4.3000e-004	0.0266		74.6364	74.6364	2.0100e-003	2.0100e-003	75.2861
<b>Total</b>	<b>0.0323</b>	<b>0.1148</b>	<b>0.2728</b>	<b>1.1700e-003</b>	<b>0.1138</b>	<b>1.1000e-003</b>	<b>0.1149</b>	<b>0.0305</b>	<b>1.0400e-003</b>	<b>0.0316</b>		<b>120.4446</b>	<b>120.4446</b>	<b>2.9000e-003</b>	<b>8.7800e-003</b>	<b>123.1318</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Dec Convert to Tri - 2026**

**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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790	0.0000	446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>	<b>0.0000</b>	<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</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	2.0000e-004	0.0123	3.0800e-003	5.0000e-005	1.7100e-003	1.1000e-004	1.8200e-003	4.7000e-004	1.0000e-004	5.7000e-004		5.7912	5.7912	1.7000e-004	9.2000e-004	6.0683
Vendor	2.1400e-003	0.0847	0.0284	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.0170	40.0170	7.2000e-004	5.8500e-003	41.7775
Worker	0.0299	0.0178	0.2413	7.4000e-004	0.0986	4.6000e-004	0.0990	0.0262	4.3000e-004	0.0266		74.6364	74.6364	2.0100e-003	2.0100e-003	75.2861
<b>Total</b>	<b>0.0323</b>	<b>0.1148</b>	<b>0.2728</b>	<b>1.1700e-003</b>	<b>0.1138</b>	<b>1.1000e-003</b>	<b>0.1149</b>	<b>0.0305</b>	<b>1.0400e-003</b>	<b>0.0316</b>		<b>120.4446</b>	<b>120.4446</b>	<b>2.9000e-003</b>	<b>8.7800e-003</b>	<b>123.1318</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Hard Convert to Tri - 2038**

**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	0.2245	1.5668	3.1606	5.2300e-003		0.0161	0.0161		0.0161	0.0161		478.4517	478.4517	0.0197		478.9437
<b>Total</b>	<b>0.2245</b>	<b>1.5668</b>	<b>3.1606</b>	<b>5.2300e-003</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0161</b>	<b>0.0161</b>		<b>478.4517</b>	<b>478.4517</b>	<b>0.0197</b>		<b>478.9437</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	1.9000e-004	0.0114	3.1600e-003	4.0000e-005	1.7100e-003	1.0000e-004	1.8100e-003	4.7000e-004	9.0000e-005	5.6000e-004		4.8588	4.8588	1.7000e-004	7.7000e-004	5.0923
Vendor	1.9200e-003	0.0807	0.0272	3.2000e-004	0.0136	4.9000e-004	0.0141	3.9000e-003	4.7000e-004	4.3700e-003		34.3854	34.3854	7.2000e-004	5.0200e-003	35.9004
Worker	0.0179	9.8200e-003	0.1699	6.1000e-004	0.0986	2.6000e-004	0.0988	0.0262	2.4000e-004	0.0264		61.9919	61.9919	1.0500e-003	1.4900e-003	62.4624
<b>Total</b>	<b>0.0200</b>	<b>0.1019</b>	<b>0.2002</b>	<b>9.7000e-004</b>	<b>0.1138</b>	<b>8.5000e-004</b>	<b>0.1147</b>	<b>0.0305</b>	<b>8.0000e-004</b>	<b>0.0313</b>		<b>101.2361</b>	<b>101.2361</b>	<b>1.9400e-003</b>	<b>7.2800e-003</b>	<b>103.4551</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Hard Convert to Tri - 2038**

**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	0.2245	1.5668	3.1606	5.2300e-003		0.0161	0.0161		0.0161	0.0161	0.0000	478.4517	478.4517	0.0197		478.9437
<b>Total</b>	<b>0.2245</b>	<b>1.5668</b>	<b>3.1606</b>	<b>5.2300e-003</b>		<b>0.0161</b>	<b>0.0161</b>		<b>0.0161</b>	<b>0.0161</b>	<b>0.0000</b>	<b>478.4517</b>	<b>478.4517</b>	<b>0.0197</b>		<b>478.9437</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	1.9000e-004	0.0114	3.1600e-003	4.0000e-005	1.7100e-003	1.0000e-004	1.8100e-003	4.7000e-004	9.0000e-005	5.6000e-004		4.8588	4.8588	1.7000e-004	7.7000e-004	5.0923
Vendor	1.9200e-003	0.0807	0.0272	3.2000e-004	0.0136	4.9000e-004	0.0141	3.9000e-003	4.7000e-004	4.3700e-003		34.3854	34.3854	7.2000e-004	5.0200e-003	35.9004
Worker	0.0179	9.8200e-003	0.1699	6.1000e-004	0.0986	2.6000e-004	0.0988	0.0262	2.4000e-004	0.0264		61.9919	61.9919	1.0500e-003	1.4900e-003	62.4624
<b>Total</b>	<b>0.0200</b>	<b>0.1019</b>	<b>0.2002</b>	<b>9.7000e-004</b>	<b>0.1138</b>	<b>8.5000e-004</b>	<b>0.1147</b>	<b>0.0305</b>	<b>8.0000e-004</b>	<b>0.0313</b>		<b>101.2361</b>	<b>101.2361</b>	<b>1.9400e-003</b>	<b>7.2800e-003</b>	<b>103.4551</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.534553	0.059172	0.184219	0.133650	0.026610	0.006752	0.011227	0.011343	0.000804	0.000471	0.026281	0.000961	0.003957

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
User Defined Industrial	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>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004



Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Chrome Plating ATCM Amendments - Proposed Amendments Construction Emissions Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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
----------------	--------	-----------	-----------	-------------	-------------	-----------

**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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Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Chrome Plating ATCM Amendments - Alternative Pathway Construction Only  
Statewide , Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	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>	54
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Austin Energy				
<b>CO2 Intensity (lb/MWhr)</b>	1083.07	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Assumed converting a facility to trivalent chromium plating would occur over two months and installation of building enclosures would take 6 days.

Off-road Equipment - Assumed APCD installation would require one aerial lift, one air compressor, one forklift and one welder.

Off-road Equipment - Assumed converting to trivalent chromium operations would require 1 aerial lift, 1 air compressor, 1 forklift and 1 welder.

Off-road Equipment - Assumed installation of building enclosures would require 1 aerial lift, 1 forklift, and 1 welder

Trips and VMT - Assumed converting to trivalent chromium would require 12 worker trips, 2 vendor trips, and 4 haul trips. Assumed installing building enclosures would require 10 worker trips, 2 vendor trips, and 2 haul trips.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	41.00

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	4.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripNumber	0.00	10.00
tbITripsAndVMT	WorkerTripNumber	0.00	12.00

**2.0 Emissions Summary**

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Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2025	5.9000e-004	4.4500e-003	6.5800e-003	1.0000e-005	3.0000e-004	1.4000e-004	4.4000e-004	8.0000e-005	1.4000e-004	2.2000e-004	0.0000	1.0485	1.0485	1.7000e-004	3.0000e-005	1.0616
2029	6.3500e-003	0.0453	0.0693	1.2000e-004	2.2600e-003	1.6800e-003	3.9400e-003	6.1000e-004	1.6400e-003	2.2500e-003	0.0000	10.4079	10.4079	1.3500e-003	1.5000e-004	10.4863
<b>Maximum</b>	<b>6.3500e-003</b>	<b>0.0453</b>	<b>0.0693</b>	<b>1.2000e-004</b>	<b>2.2600e-003</b>	<b>1.6800e-003</b>	<b>3.9400e-003</b>	<b>6.1000e-004</b>	<b>1.6400e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>10.4079</b>	<b>10.4079</b>	<b>1.3500e-003</b>	<b>1.5000e-004</b>	<b>10.4863</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					
2025	5.9000e-004	4.4500e-003	6.5800e-003	1.0000e-005	3.0000e-004	1.4000e-004	4.4000e-004	8.0000e-005	1.4000e-004	2.2000e-004	0.0000	1.0485	1.0485	1.7000e-004	3.0000e-005	1.0616
2029	6.3500e-003	0.0453	0.0693	1.2000e-004	2.2600e-003	1.6800e-003	3.9400e-003	6.1000e-004	1.6400e-003	2.2500e-003	0.0000	10.4079	10.4079	1.3500e-003	1.5000e-004	10.4863
<b>Maximum</b>	<b>6.3500e-003</b>	<b>0.0453</b>	<b>0.0693</b>	<b>1.2000e-004</b>	<b>2.2600e-003</b>	<b>1.6800e-003</b>	<b>3.9400e-003</b>	<b>6.1000e-004</b>	<b>1.6400e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>10.4079</b>	<b>10.4079</b>	<b>1.3500e-003</b>	<b>1.5000e-004</b>	<b>10.4863</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
16	11-3-2028	2-2-2029	0.0153	0.0153
17	2-3-2029	5-2-2029	0.0361	0.0361
		Highest	0.0361	0.0361

**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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						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>1.0000e-005</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>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						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>1.0000e-005</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>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</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>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	Hard Building Enclosure	Building Construction	1/1/2025	1/8/2025	5	6	
2	Dec Convert to Tri	Building Construction	1/17/2029	3/14/2029	5	41	



Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hard Building Enclosure	Aerial Lifts	1	4.00	63	0.31
Hard Building Enclosure	Forklifts	1	4.00	89	0.20
Hard Building Enclosure	Welders	1	4.00	46	0.45
Dec Convert to Tri	Aerial Lifts	1	4.00	63	0.31
Dec Convert to Tri	Air Compressors	1	4.00	78	0.48
Dec Convert to Tri	Forklifts	1	4.00	89	0.20
Dec Convert to Tri	Welders	1	4.00	46	0.45

**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
Hard Building Enclosure	3	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Dec Convert to Tri	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard Building Enclosure - 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	5.1000e-004	4.0200e-003	5.8100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.7051	0.7051	1.6000e-004	0.0000	0.7092
<b>Total</b>	<b>5.1000e-004</b>	<b>4.0200e-003</b>	<b>5.8100e-003</b>	<b>1.0000e-005</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.7051</b>	<b>0.7051</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.7092</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	1.3000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0550	0.0550	0.0000	1.0000e-005	0.0576
Vendor	1.0000e-005	2.5000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1109	0.1109	0.0000	2.0000e-005	0.1158
Worker	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1775	0.1775	0.0000	0.0000	0.1790
<b>Total</b>	<b>8.0000e-005</b>	<b>4.3000e-004</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3434</b>	<b>0.3434</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.3525</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard Building Enclosure - 2025**

**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	5.1000e-004	4.0200e-003	5.8100e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.7051	0.7051	1.6000e-004	0.0000	0.7092
<b>Total</b>	<b>5.1000e-004</b>	<b>4.0200e-003</b>	<b>5.8100e-003</b>	<b>1.0000e-005</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.7051</b>	<b>0.7051</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.7092</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	1.3000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0550	0.0550	0.0000	1.0000e-005	0.0576
Vendor	1.0000e-005	2.5000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1109	0.1109	0.0000	2.0000e-005	0.1158
Worker	7.0000e-005	5.0000e-005	6.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1775	0.1775	0.0000	0.0000	0.1790
<b>Total</b>	<b>8.0000e-005</b>	<b>4.3000e-004</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3434</b>	<b>0.3434</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.3525</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Dec Convert to Tri - 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	5.8300e-003	0.0431	0.0645	1.0000e-004		1.6600e-003	1.6600e-003		1.6200e-003	1.6200e-003	0.0000	8.3073	8.3073	1.3100e-003	0.0000	8.3400
<b>Total</b>	<b>5.8300e-003</b>	<b>0.0431</b>	<b>0.0645</b>	<b>1.0000e-004</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>		<b>1.6200e-003</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>8.3073</b>	<b>8.3073</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>8.3400</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	2.4000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1003	0.1003	0.0000	2.0000e-005	0.1051
Vendor	4.0000e-005	1.6700e-003	5.5000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.6987	0.6987	1.0000e-005	1.0000e-004	0.7295
Worker	4.8000e-004	2.7000e-004	4.2600e-003	1.0000e-005	1.9600e-003	1.0000e-005	1.9600e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.3016	1.3016	3.0000e-005	3.0000e-005	1.3118
<b>Total</b>	<b>5.2000e-004</b>	<b>2.1800e-003</b>	<b>4.8700e-003</b>	<b>2.0000e-005</b>	<b>2.2600e-003</b>	<b>2.0000e-005</b>	<b>2.2800e-003</b>	<b>6.1000e-004</b>	<b>2.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.1006</b>	<b>2.1006</b>	<b>4.0000e-005</b>	<b>1.5000e-004</b>	<b>2.1463</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Dec Convert to Tri - 2029**

**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	5.8300e-003	0.0431	0.0645	1.0000e-004		1.6600e-003	1.6600e-003		1.6200e-003	1.6200e-003	0.0000	8.3073	8.3073	1.3100e-003	0.0000	8.3400
<b>Total</b>	<b>5.8300e-003</b>	<b>0.0431</b>	<b>0.0645</b>	<b>1.0000e-004</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>		<b>1.6200e-003</b>	<b>1.6200e-003</b>	<b>0.0000</b>	<b>8.3073</b>	<b>8.3073</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>8.3400</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	2.4000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1003	0.1003	0.0000	2.0000e-005	0.1051
Vendor	4.0000e-005	1.6700e-003	5.5000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.6987	0.6987	1.0000e-005	1.0000e-004	0.7295
Worker	4.8000e-004	2.7000e-004	4.2600e-003	1.0000e-005	1.9600e-003	1.0000e-005	1.9600e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.3016	1.3016	3.0000e-005	3.0000e-005	1.3118
<b>Total</b>	<b>5.2000e-004</b>	<b>2.1800e-003</b>	<b>4.8700e-003</b>	<b>2.0000e-005</b>	<b>2.2600e-003</b>	<b>2.0000e-005</b>	<b>2.2800e-003</b>	<b>6.1000e-004</b>	<b>2.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.1006</b>	<b>2.1006</b>	<b>4.0000e-005</b>	<b>1.5000e-004</b>	<b>2.1463</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.534553	0.059172	0.184219	0.133650	0.026610	0.006752	0.011227	0.011343	0.000804	0.000471	0.026281	0.000961	0.003957

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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





Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	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>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

**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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</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>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</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>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	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>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	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>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	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>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	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>

**9.0 Operational Offroad**

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Equipment Type						
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Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

	Number
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**11.0 Vegetation**

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Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Chrome Plating ATCM Amendments - Alternative Pathway Construction Only**

**Statewide , Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	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>	54
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Austin Energy				
<b>CO2 Intensity (lb/MWhr)</b>	1083.07	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Assumed converting a facility to trivalent chromium plating would occur over two months and installation of building enclosures would take 6 days.

Off-road Equipment - Assumed APCD installation would require one aerial lift, one air compressor, one forklift and one welder.

Off-road Equipment - Assumed converting to trivalent chromium operations would require 1 aerial lift, 1 air compressor, 1 forklift and 1 welder.

Off-road Equipment - Assumed installation of building enclosures would require 1 aerial lift, 1 forklift, and 1 welder

Trips and VMT - Assumed converting to trivalent chromium would require 12 worker trips, 2 vendor trips, and 4 haul trips. Assumed installing building enclosures would require 10 worker trips, 2 vendor trips, and 2 haul trips.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	41.00



Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	4.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripNumber	0.00	10.00
tbITripsAndVMT	WorkerTripNumber	0.00	12.00

**2.0 Emissions Summary**

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Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2025	0.1997	1.4756	2.2092	4.1300e-003	0.1015	0.0481	0.1497	0.0273	0.0459	0.0732	0.0000	389.0691	389.0691	0.0631	0.0108	393.8540
2029	0.3113	2.2054	3.3982	5.9900e-003	0.1138	0.0821	0.1960	0.0305	0.0800	0.1105	0.0000	563.7549	563.7549	0.0727	7.9300e-003	567.9342
<b>Maximum</b>	<b>0.3113</b>	<b>2.2054</b>	<b>3.3982</b>	<b>5.9900e-003</b>	<b>0.1138</b>	<b>0.0821</b>	<b>0.1960</b>	<b>0.0305</b>	<b>0.0800</b>	<b>0.1105</b>	<b>0.0000</b>	<b>563.7549</b>	<b>563.7549</b>	<b>0.0727</b>	<b>0.0108</b>	<b>567.9342</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					
2025	0.1997	1.4756	2.2092	4.1300e-003	0.1015	0.0481	0.1497	0.0273	0.0459	0.0732	0.0000	389.0691	389.0691	0.0631	0.0108	393.8540
2029	0.3113	2.2054	3.3982	5.9900e-003	0.1138	0.0821	0.1960	0.0305	0.0800	0.1105	0.0000	563.7549	563.7549	0.0727	7.9300e-003	567.9342
<b>Maximum</b>	<b>0.3113</b>	<b>2.2054</b>	<b>3.3982</b>	<b>5.9900e-003</b>	<b>0.1138</b>	<b>0.0821</b>	<b>0.1960</b>	<b>0.0305</b>	<b>0.0800</b>	<b>0.1105</b>	<b>0.0000</b>	<b>563.7549</b>	<b>563.7549</b>	<b>0.0727</b>	<b>0.0108</b>	<b>567.9342</b>



Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
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	0.0000	0.0000	0.0000	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>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
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	0.0000	0.0000	0.0000	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>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Hard Building Enclosure	Building Construction	1/1/2025	1/8/2025	5	6	
2	Dec Convert to Tri	Building Construction	1/17/2029	3/14/2029	5	41	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hard Building Enclosure	Aerial Lifts	1	4.00	63	0.31
Hard Building Enclosure	Forklifts	1	4.00	89	0.20
Hard Building Enclosure	Welders	1	4.00	46	0.45
Dec Convert to Tri	Aerial Lifts	1	4.00	63	0.31
Dec Convert to Tri	Air Compressors	1	4.00	78	0.48
Dec Convert to Tri	Forklifts	1	4.00	89	0.20
Dec Convert to Tri	Welders	1	4.00	46	0.45

**Trips and VMT**

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Hard Building Enclosure	3	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Dec Convert to Tri	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Hard Building Enclosure - 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	0.1704	1.3405	1.9382	2.8800e-003		0.0468	0.0468		0.0447	0.0447		259.0642	259.0642	0.0601		260.5665
<b>Total</b>	<b>0.1704</b>	<b>1.3405</b>	<b>1.9382</b>	<b>2.8800e-003</b>		<b>0.0468</b>	<b>0.0468</b>		<b>0.0447</b>	<b>0.0447</b>		<b>259.0642</b>	<b>259.0642</b>	<b>0.0601</b>		<b>260.5665</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard Building Enclosure - 2025**

**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	7.5000e-004	0.0402	0.0103	1.9000e-004	5.8400e-003	3.7000e-004	6.2100e-003	1.6000e-003	3.5000e-004	1.9500e-003		20.1922	20.1922	5.7000e-004	3.1900e-003	21.1577
Vendor	2.3000e-003	0.0806	0.0279	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.7295	40.7295	7.2000e-004	5.9500e-003	42.5197
Worker	0.0263	0.0143	0.2328	6.8000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.7000e-004	0.0222		69.0832	69.0832	1.7000e-003	1.6300e-003	69.6100
<b>Total</b>	<b>0.0293</b>	<b>0.1351</b>	<b>0.2710</b>	<b>1.2500e-003</b>	<b>0.1015</b>	<b>1.3100e-003</b>	<b>0.1028</b>	<b>0.0273</b>	<b>1.2300e-003</b>	<b>0.0285</b>		<b>130.0049</b>	<b>130.0049</b>	<b>2.9900e-003</b>	<b>0.0108</b>	<b>133.2875</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	0.1704	1.3405	1.9382	2.8800e-003		0.0468	0.0468		0.0447	0.0447	0.0000	259.0642	259.0642	0.0601		260.5665
<b>Total</b>	<b>0.1704</b>	<b>1.3405</b>	<b>1.9382</b>	<b>2.8800e-003</b>		<b>0.0468</b>	<b>0.0468</b>		<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>259.0642</b>	<b>259.0642</b>	<b>0.0601</b>		<b>260.5665</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard Building Enclosure - 2025**

**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	7.5000e-004	0.0402	0.0103	1.9000e-004	5.8400e-003	3.7000e-004	6.2100e-003	1.6000e-003	3.5000e-004	1.9500e-003		20.1922	20.1922	5.7000e-004	3.1900e-003	21.1577
Vendor	2.3000e-003	0.0806	0.0279	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.7295	40.7295	7.2000e-004	5.9500e-003	42.5197
Worker	0.0263	0.0143	0.2328	6.8000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.7000e-004	0.0222		69.0832	69.0832	1.7000e-003	1.6300e-003	69.6100
<b>Total</b>	<b>0.0293</b>	<b>0.1351</b>	<b>0.2710</b>	<b>1.2500e-003</b>	<b>0.1015</b>	<b>1.3100e-003</b>	<b>0.1028</b>	<b>0.0273</b>	<b>1.2300e-003</b>	<b>0.0285</b>		<b>130.0049</b>	<b>130.0049</b>	<b>2.9900e-003</b>	<b>0.0108</b>	<b>133.2875</b>

**3.3 Dec Convert to Tri - 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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790		446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>		<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</b>



Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Dec Convert to Tri - 2029**

**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	2.1000e-004	0.0112	3.0500e-003	5.0000e-005	1.7100e-003	1.0000e-004	1.8100e-003	4.7000e-004	1.0000e-004	5.7000e-004		5.3890	5.3890	1.7000e-004	8.5000e-004	5.6472
Vendor	2.1300e-003	0.0780	0.0266	3.5000e-004	0.0136	5.1000e-004	0.0141	3.9000e-003	4.9000e-004	4.3900e-003		37.5398	37.5398	7.2000e-004	5.4800e-003	39.1907
Worker	0.0247	0.0121	0.2243	7.3000e-004	0.0986	3.8000e-004	0.0990	0.0262	3.5000e-004	0.0265		74.1299	74.1299	1.4300e-003	1.6000e-003	74.6418
<b>Total</b>	<b>0.0270</b>	<b>0.1012</b>	<b>0.2539</b>	<b>1.1300e-003</b>	<b>0.1138</b>	<b>9.9000e-004</b>	<b>0.1148</b>	<b>0.0305</b>	<b>9.4000e-004</b>	<b>0.0315</b>		<b>117.0587</b>	<b>117.0587</b>	<b>2.3200e-003</b>	<b>7.9300e-003</b>	<b>119.4797</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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790	0.0000	446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>	<b>0.0000</b>	<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Dec Convert to Tri - 2029**

**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	2.1000e-004	0.0112	3.0500e-003	5.0000e-005	1.7100e-003	1.0000e-004	1.8100e-003	4.7000e-004	1.0000e-004	5.7000e-004		5.3890	5.3890	1.7000e-004	8.5000e-004	5.6472
Vendor	2.1300e-003	0.0780	0.0266	3.5000e-004	0.0136	5.1000e-004	0.0141	3.9000e-003	4.9000e-004	4.3900e-003		37.5398	37.5398	7.2000e-004	5.4800e-003	39.1907
Worker	0.0247	0.0121	0.2243	7.3000e-004	0.0986	3.8000e-004	0.0990	0.0262	3.5000e-004	0.0265		74.1299	74.1299	1.4300e-003	1.6000e-003	74.6418
<b>Total</b>	<b>0.0270</b>	<b>0.1012</b>	<b>0.2539</b>	<b>1.1300e-003</b>	<b>0.1138</b>	<b>9.9000e-004</b>	<b>0.1148</b>	<b>0.0305</b>	<b>9.4000e-004</b>	<b>0.0315</b>		<b>117.0587</b>	<b>117.0587</b>	<b>2.3200e-003</b>	<b>7.9300e-003</b>	<b>119.4797</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.534553	0.059172	0.184219	0.133650	0.026610	0.006752	0.011227	0.011343	0.000804	0.000471	0.026281	0.000961	0.003957

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
User Defined Industrial	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>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
--	--------	-----------	-----------	-------------	-------------	-----------

**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
----------------	--------	-----------	------------	-------------	-------------	-----------

**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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Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Chrome Plating ATCM Amendments - Alternative Pathway Construction Only  
Statewide , Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	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>	54
<b>Climate Zone</b>	11			<b>Operational Year</b>	2024
<b>Utility Company</b>	Austin Energy				
<b>CO2 Intensity (lb/MWhr)</b>	1083.07	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use -

Construction Phase - Assumed converting a facility to trivalent chromium plating would occur over two months and installation of building enclosures would take 6 days.

Off-road Equipment - Assumed APCD installation would require one aerial lift, one air compressor, one forklift and one welder.

Off-road Equipment - Assumed converting to trivalent chromium operations would require 1 aerial lift, 1 air compressor, 1 forklift and 1 welder.

Off-road Equipment - Assumed installation of building enclosures would require 1 aerial lift, 1 forklift, and 1 welder

Trips and VMT - Assumed converting to trivalent chromium would require 12 worker trips, 2 vendor trips, and 4 haul trips. Assumed installing building enclosures would require 10 worker trips, 2 vendor trips, and 2 haul trips.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	6.00
tblConstructionPhase	NumDays	0.00	41.00

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tbITripsAndVMT	HaulingTripNumber	0.00	2.00
tbITripsAndVMT	HaulingTripNumber	0.00	4.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	VendorTripNumber	0.00	2.00
tbITripsAndVMT	WorkerTripNumber	0.00	10.00
tbITripsAndVMT	WorkerTripNumber	0.00	12.00

**2.0 Emissions Summary**

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Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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					
2025	0.1997	1.4850	2.1916	4.0800e-003	0.1015	0.0481	0.1497	0.0273	0.0459	0.0732	0.0000	384.2675	384.2675	0.0632	0.0109	389.1078
2029	0.3116	2.2125	3.3819	5.9400e-003	0.1138	0.0821	0.1960	0.0305	0.0800	0.1105	0.0000	558.5700	558.5700	0.0728	8.0900e-003	562.8016
<b>Maximum</b>	<b>0.3116</b>	<b>2.2125</b>	<b>3.3819</b>	<b>5.9400e-003</b>	<b>0.1138</b>	<b>0.0821</b>	<b>0.1960</b>	<b>0.0305</b>	<b>0.0800</b>	<b>0.1105</b>	<b>0.0000</b>	<b>558.5700</b>	<b>558.5700</b>	<b>0.0728</b>	<b>0.0109</b>	<b>562.8016</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					
2025	0.1997	1.4850	2.1916	4.0800e-003	0.1015	0.0481	0.1497	0.0273	0.0459	0.0732	0.0000	384.2675	384.2675	0.0632	0.0109	389.1078
2029	0.3116	2.2125	3.3819	5.9400e-003	0.1138	0.0821	0.1960	0.0305	0.0800	0.1105	0.0000	558.5700	558.5700	0.0728	8.0900e-003	562.8016
<b>Maximum</b>	<b>0.3116</b>	<b>2.2125</b>	<b>3.3819</b>	<b>5.9400e-003</b>	<b>0.1138</b>	<b>0.0821</b>	<b>0.1960</b>	<b>0.0305</b>	<b>0.0800</b>	<b>0.1105</b>	<b>0.0000</b>	<b>558.5700</b>	<b>558.5700</b>	<b>0.0728</b>	<b>0.0109</b>	<b>562.8016</b>



Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
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	0.0000	0.0000	0.0000	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>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
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	0.0000	0.0000	0.0000	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>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Hard Building Enclosure	Building Construction	1/1/2025	1/8/2025	5	6	
2	Dec Convert to Tri	Building Construction	1/17/2029	3/14/2029	5	41	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Hard Building Enclosure	Aerial Lifts	1	4.00	63	0.31
Hard Building Enclosure	Forklifts	1	4.00	89	0.20
Hard Building Enclosure	Welders	1	4.00	46	0.45
Dec Convert to Tri	Aerial Lifts	1	4.00	63	0.31
Dec Convert to Tri	Air Compressors	1	4.00	78	0.48
Dec Convert to Tri	Forklifts	1	4.00	89	0.20
Dec Convert to Tri	Welders	1	4.00	46	0.45

**Trips and VMT**

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Hard Building Enclosure	3	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Dec Convert to Tri	4	12.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Hard Building Enclosure - 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	0.1704	1.3405	1.9382	2.8800e-003		0.0468	0.0468		0.0447	0.0447		259.0642	259.0642	0.0601		260.5665
<b>Total</b>	<b>0.1704</b>	<b>1.3405</b>	<b>1.9382</b>	<b>2.8800e-003</b>		<b>0.0468</b>	<b>0.0468</b>		<b>0.0447</b>	<b>0.0447</b>		<b>259.0642</b>	<b>259.0642</b>	<b>0.0601</b>		<b>260.5665</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard Building Enclosure - 2025**

**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	6.9000e-004	0.0426	0.0105	1.9000e-004	5.8400e-003	3.7000e-004	6.2100e-003	1.6000e-003	3.5000e-004	1.9500e-003		20.2178	20.2178	5.7000e-004	3.2000e-003	21.1845
Vendor	2.1900e-003	0.0855	0.0289	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.8069	40.8069	7.2000e-004	5.9600e-003	42.6020
Worker	0.0265	0.0164	0.2140	6.3000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.7000e-004	0.0222		64.1786	64.1786	1.8300e-003	1.7800e-003	64.7548
<b>Total</b>	<b>0.0294</b>	<b>0.1445</b>	<b>0.2534</b>	<b>1.2000e-003</b>	<b>0.1015</b>	<b>1.3100e-003</b>	<b>0.1029</b>	<b>0.0273</b>	<b>1.2300e-003</b>	<b>0.0285</b>		<b>125.2033</b>	<b>125.2033</b>	<b>3.1200e-003</b>	<b>0.0109</b>	<b>128.5412</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	0.1704	1.3405	1.9382	2.8800e-003		0.0468	0.0468		0.0447	0.0447	0.0000	259.0642	259.0642	0.0601		260.5665
<b>Total</b>	<b>0.1704</b>	<b>1.3405</b>	<b>1.9382</b>	<b>2.8800e-003</b>		<b>0.0468</b>	<b>0.0468</b>		<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>259.0642</b>	<b>259.0642</b>	<b>0.0601</b>		<b>260.5665</b>



Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Hard Building Enclosure - 2025**

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	6.9000e-004	0.0426	0.0105	1.9000e-004	5.8400e-003	3.7000e-004	6.2100e-003	1.6000e-003	3.5000e-004	1.9500e-003		20.2178	20.2178	5.7000e-004	3.2000e-003	21.1845
Vendor	2.1900e-003	0.0855	0.0289	3.8000e-004	0.0136	5.3000e-004	0.0141	3.9000e-003	5.1000e-004	4.4100e-003		40.8069	40.8069	7.2000e-004	5.9600e-003	42.6020
Worker	0.0265	0.0164	0.2140	6.3000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.7000e-004	0.0222		64.1786	64.1786	1.8300e-003	1.7800e-003	64.7548
<b>Total</b>	<b>0.0294</b>	<b>0.1445</b>	<b>0.2534</b>	<b>1.2000e-003</b>	<b>0.1015</b>	<b>1.3100e-003</b>	<b>0.1029</b>	<b>0.0273</b>	<b>1.2300e-003</b>	<b>0.0285</b>		<b>125.2033</b>	<b>125.2033</b>	<b>3.1200e-003</b>	<b>0.0109</b>	<b>128.5412</b>

**3.3 Dec Convert to Tri - 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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790		446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>		<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Dec Convert to Tri - 2029**

**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	2.0000e-004	0.0119	3.1000e-003	5.0000e-005	1.7100e-003	1.0000e-004	1.8100e-003	4.7000e-004	1.0000e-004	5.7000e-004		5.3960	5.3960	1.7000e-004	8.5000e-004	5.6546
Vendor	2.0200e-003	0.0827	0.0275	3.5000e-004	0.0136	5.2000e-004	0.0141	3.9000e-003	4.9000e-004	4.4000e-003		37.6141	37.6141	7.2000e-004	5.4900e-003	39.2694
Worker	0.0251	0.0138	0.2071	6.8000e-004	0.0986	3.8000e-004	0.0990	0.0262	3.5000e-004	0.0265		68.8636	68.8636	1.5600e-003	1.7500e-003	69.4232
<b>Total</b>	<b>0.0274</b>	<b>0.1084</b>	<b>0.2376</b>	<b>1.0800e-003</b>	<b>0.1138</b>	<b>1.0000e-003</b>	<b>0.1148</b>	<b>0.0305</b>	<b>9.4000e-004</b>	<b>0.0315</b>		<b>111.8737</b>	<b>111.8737</b>	<b>2.4500e-003</b>	<b>8.0900e-003</b>	<b>114.3472</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	0.2843	2.1042	3.1443	4.8600e-003		0.0811	0.0811		0.0790	0.0790	0.0000	446.6962	446.6962	0.0703		448.4544
<b>Total</b>	<b>0.2843</b>	<b>2.1042</b>	<b>3.1443</b>	<b>4.8600e-003</b>		<b>0.0811</b>	<b>0.0811</b>		<b>0.0790</b>	<b>0.0790</b>	<b>0.0000</b>	<b>446.6962</b>	<b>446.6962</b>	<b>0.0703</b>		<b>448.4544</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Dec Convert to Tri - 2029**

**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	2.0000e-004	0.0119	3.1000e-003	5.0000e-005	1.7100e-003	1.0000e-004	1.8100e-003	4.7000e-004	1.0000e-004	5.7000e-004		5.3960	5.3960	1.7000e-004	8.5000e-004	5.6546
Vendor	2.0200e-003	0.0827	0.0275	3.5000e-004	0.0136	5.2000e-004	0.0141	3.9000e-003	4.9000e-004	4.4000e-003		37.6141	37.6141	7.2000e-004	5.4900e-003	39.2694
Worker	0.0251	0.0138	0.2071	6.8000e-004	0.0986	3.8000e-004	0.0990	0.0262	3.5000e-004	0.0265		68.8636	68.8636	1.5600e-003	1.7500e-003	69.4232
<b>Total</b>	<b>0.0274</b>	<b>0.1084</b>	<b>0.2376</b>	<b>1.0800e-003</b>	<b>0.1138</b>	<b>1.0000e-003</b>	<b>0.1148</b>	<b>0.0305</b>	<b>9.4000e-004</b>	<b>0.0315</b>		<b>111.8737</b>	<b>111.8737</b>	<b>2.4500e-003</b>	<b>8.0900e-003</b>	<b>114.3472</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.534553	0.059172	0.184219	0.133650	0.026610	0.006752	0.011227	0.011343	0.000804	0.000471	0.026281	0.000961	0.003957

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
User Defined Industrial	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>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



Chrome Plating ATCM Amendments - Alternative Pathway Construction Only - Statewide , Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**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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