Revised
HGB Eight-County

Dick Karp
Southeast Texas Photochemical Modeling Technical Committee
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Summary of Emission Changes

• Point source emissions from upsets, maintenance, startups, and shutdowns were added to the 2006 baseline, increasing NOx (0.7 tpd) and VOC (32.7 tpd)

• MECT allocations reflecting recent certifications decreased 2018 base point source NOx (8.4 tpd)

• Revised growth factors for non-MECT point sources decreased 2018 base VOC (23.8 tpd)

• Reduction of reconciled HRVOC emissions was eliminated increasing the 2018 base VOC (6.4 tpd)

• Non-road mobile source emissions were updated with latest version of TexN, increasing 2006 baseline NOx (0.5 tpd) and decreasing 2006 baseline VOC (14.6 tpd), and decreasing 2018 base VOC (29.4 tpd)
## Revised 2006 Baseline, 2018 Base and 2018 Control Strategy
### Anthropogenic Modeling Emissions HGB Eight-County

<table>
<thead>
<tr>
<th>Source Type</th>
<th>2006 Baseline</th>
<th>2018 Baseline</th>
<th>2018 Control Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NO\textsubscript{X}</td>
<td>VOC</td>
<td>CO</td>
</tr>
<tr>
<td></td>
<td>(tpd)</td>
<td>(tpd)</td>
<td>(tpd)</td>
</tr>
<tr>
<td>Point</td>
<td>172.86</td>
<td>241.00</td>
<td>132.25</td>
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<tr>
<td>On-Road</td>
<td>197.28</td>
<td>99.39</td>
<td>1115.23</td>
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<tr>
<td>Non-Road</td>
<td>79.33</td>
<td>61.41</td>
<td>572.37</td>
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<tr>
<td>Off-Road</td>
<td>73.26</td>
<td>5.75</td>
<td>97.30</td>
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<tr>
<td>Area</td>
<td>36.35</td>
<td>528.99</td>
<td>134.59</td>
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<tr>
<td>Totals</td>
<td>559.08</td>
<td>936.54</td>
<td>2051.74</td>
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</table>
Total NO$_X$ = 559 tpd

2006 BL

36
153
173

2018 FY

42
119
51

2018 CS

42
119
49
2006 Baseline and 2018 Future Anthropogenic VOC Modeling Emissions HGB Eight-County Area

VOC Emissions (TPD)

- **2006BL**
  - Total VOC = 936 tpd
  - 529 (Area), 67 (Non-Road), 241 (On-Road), 99 (Points)

- **2018FY**
  - Total VOC = 1029 tpd
  - 650 (Area), 37 (Non-Road), 292 (On-Road), 50 (Points)

- **2018CS**
  - Total VOC = 1026 tpd
  - 650 (Area), 37 (Non-Road), 289 (On-Road), 50 (Points)
<table>
<thead>
<tr>
<th>Monitor Designation</th>
<th>Site Code</th>
<th>2006 DVₚ (ppb)</th>
<th>RRF</th>
<th>2018 DVₚ (ppb)</th>
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<tbody>
<tr>
<td>Houston East (CAMS 1)</td>
<td>HOEA</td>
<td>80.3</td>
<td>0.935</td>
<td>75.1</td>
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<tr>
<td>Aldine (CAMS 8)</td>
<td>HALC</td>
<td>85.0</td>
<td>0.907</td>
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<td>Channelview (CAMS 15)</td>
<td>HCHV</td>
<td>82.7</td>
<td>0.937</td>
<td>77.5</td>
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<td>Northwest Harris County (CAMS 26)</td>
<td>HNWA</td>
<td>89.0</td>
<td>0.858</td>
<td>76.4</td>
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<td>Galveston Airport (CAMS 34)</td>
<td>GALC</td>
<td>81.7</td>
<td>0.939</td>
<td>76.7</td>
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<td>Deer Park (CAMS 35)</td>
<td>DRPK</td>
<td>92.0</td>
<td>0.940</td>
<td>86.5</td>
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<td>Seabrook Friendship Park (CAMS 45)</td>
<td>SBFP</td>
<td>85.3</td>
<td>0.926</td>
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<td>Bayland Park (CAMS 53)</td>
<td>BAYP</td>
<td>96.7</td>
<td>0.885</td>
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<td>Conroe Relocated (CAMS 78)</td>
<td>CNR2</td>
<td>83.0</td>
<td>0.866</td>
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<td>Houston Regional Office (CAMS 81)</td>
<td>HROC</td>
<td>79.7</td>
<td>0.945</td>
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<td>Manvel Croix Park (CAMS 84)</td>
<td>MACP</td>
<td>90.7</td>
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<td>Clinton (CAMS 403)</td>
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<td>North Wayside (CAMS 405)</td>
<td>HWAA</td>
<td>76.3</td>
<td>0.917</td>
<td>70.0</td>
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<td>Swiss and Monroe (CAMS 406)</td>
<td>HSMA</td>
<td>90.3</td>
<td>0.911</td>
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<td>Lang (CAMS 408)</td>
<td>HLAA</td>
<td>77.7</td>
<td>0.876</td>
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<td>Croquet (CAMS 409)</td>
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<td>Shell Westhollow (CAMS 410)</td>
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<td>0.844</td>
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<td>Houston Texas Avenue (CAMS 411)</td>
<td>HTCA</td>
<td>79.3</td>
<td>0.929</td>
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<td>Haden Road (CAMS 603; Non-regulatory)</td>
<td>H03H</td>
<td>84.0</td>
<td>0.939</td>
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<td>Wallisville Road (CAMS 617; Non-regulatory)</td>
<td>WALV</td>
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<td>0.940</td>
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<td>Danciger (CAMS 618; Non-regulatory)</td>
<td>MSTG</td>
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<td>0.880</td>
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<td>Mustang Bayou (CAMS 619; Non-regulatory)</td>
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<td>0.892</td>
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<td>Texas City (CAMS 620; Non-regulatory)</td>
<td>TXCT</td>
<td>84.3</td>
<td>0.925</td>
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<td>Lynchburg Ferry (CAMS 1015)</td>
<td>LYNF</td>
<td>81.7</td>
<td>0.948</td>
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<td>Lake Jackson (CAMS 1016)</td>
<td>LKJK</td>
<td>77.0</td>
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