Everything NATTS

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Ambient Air Monitoring Group
NATTS Team Updates

• New NATTS Team at OAQPS
  • Greg Noah – QA
  • Laurie Trinca – Funding/CSATAM
  • Data Analysis
    – Dennis Doll
    – Madeline Strum
  • Dave Shelow – Program Manager

National Ambient Air Monitoring Conference August 2014
Everything NATTS Schedule today

- NATTS Program Updates
- NATTS QA
- NATTS Data Validation Template
- Next NATTS Network Assessment
- NATTS Data Analysis
NATTS Sites & Years Established

The Hazard, KY, the Horicon, WI, and the Bronx, NY sites were relocated in 2008, 2009, and 2010, respectively.
Minimum Required NATTS Analytes

<table>
<thead>
<tr>
<th>VOCs</th>
<th>Carbonyls</th>
<th>PM$_{10}$ Metals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrolein</td>
<td>Formaldehyde</td>
<td>Nickel compounds</td>
</tr>
<tr>
<td>Benzene</td>
<td>Acetaldehyde</td>
<td>Arsenic compounds</td>
</tr>
<tr>
<td>Chloroform</td>
<td></td>
<td>Cadmium compounds</td>
</tr>
<tr>
<td>1,3-butadiene</td>
<td></td>
<td>Manganese compounds</td>
</tr>
<tr>
<td>Vinyl Chloride</td>
<td>Benzo(a)pyrene</td>
<td>Beryllium compounds</td>
</tr>
<tr>
<td>Perchloroethylene</td>
<td>Naphthalene</td>
<td>Lead compounds</td>
</tr>
<tr>
<td>Carbon Tetrachloride</td>
<td></td>
<td></td>
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<tr>
<td>Trichloroethylene</td>
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</tbody>
</table>

**PAHs**

- Benzo(a)pyrene
- Naphthalene

**TSP Hexavalent Chromium**

*No longer required Core HAP*
NATTS Assessment

- 1st NATTS Assessment (2003-2010) completed
  - Drop Cr+6 as required pollutant (still funded)
  - Increase funding for equipment $25K/site (one time)
  - Re-evaluate DQO’s
  - Incorrect data in AQS needed corrected
  - Increased PT frequency
  - Link ambient data with health benchmarks
  - Site specific reports created & reviewed with each site & corresponding lab
  - Feedback from calls – training

- 2nd NATTS Assessment (2003-2013) started
NATTS Program updates

• From assessment, created a near term vision:
  • Increase the quality of the data
  • Consistency with all sites and labs within the network
  • Find method issues and solve
  • Improve communication and discussions
Increase the Quality of the data

- Proficiency Test (PT) program
  - Contract modifications
    » 3 referee labs
    » Concentrations lowered
    » Data comparison changes

- TSA audits for field sites and labs
  - Experience field and labs personnel doing audits

- Data validation templates
“Consistency Across all labs”

• Updating the NATTS Technical Assistance Document (TAD)
  – More prescriptive
  – Data reporting
Improve Communications

• After each quarterly PT results
• After next TAD revision
• After 2nd assessment
• Debriefs for TSA audits
Air Toxics Methods Issues

• Ongoing research – Acrolein
  – ORD will provide guidance

• Carbonyls
  – Work group
  – Optimization of TO-11A
  – Feasibility of Real time measurements

• Next pollutant – Naphthalene
Community Scale Grants

- RFP in FY 2014
  - Community monitoring
  - Sectors
  - NGAM - sensors
  - Air Toxics at near road
  - Methods evaluations
  - Data analysis

- Funding 2015
In Summary….

- Changes to PT program & TSA
- Get Data in AQS – next network assessment
- TAD rewrite in progress
- Methods issues trying to get resolved
- CSATAM grants coming