**AQS Notes for August 8, 2012**

**Topics:**
Change of standard units & Removal of ½ MDL substitution for PAHs and $PM_{10}$ speciated metals

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The standard units for Polycyclic Aromatic Hydrocarbons (PAHs) and $PM_{10}$ speciated metals will change from microgram/meter$^3$ to nanogram/meter$^3$. Concurrently, ½ MDL substitution will also discontinue for these parameters. (Removal of ½ MDL substitution for certain parameters was proposed on June 23, 2011.) As part of this change, AQS will recompute the standard sample measurements and all the summaries (daily, quarterly, and annual) for these compounds.

For a parameter with ½ MDL substitution, the substitution occurs when AQS converts the reported sample measurement to the standard sample measurement. The reported sample measurement is always stored. However, if the reported value is below the method detection limit (MDL), then the standard sample measurement = ½ of the federal MDL.

See below for the parameter codes and descriptions of the pollutants involved.

The changes and the recalculations will occur August 11 - 12, 2012.

Please direct comments to AQSTeam@epa.gov.

| AQS Parameter Code | Parameter Description |
|---|---|
| **PAHs** | |
| **17141** | Naphthalene (TSP) STP |
| **17147** | Acenaphthene (TSP) STP |
| **17148** | Acenaphthylene (TSP) STP |
| **17149** | Fluorene (TSP) STP |
| **17150** | Phenanthrene (TSP) STP |
| **17151** | Anthracene (TSP) STP |
| **17158** | Retene (TSP) STP |
| **17159** | 9-fluorenone (TSP) STP |
| **17160** | Cyclopenta[cd]pyrene (TSP) STP |
| **17201** | Fluoranthene (TSP) STP |
| **17204** | Pyrene (TSP) STP |
| **17208** | Chrysene (TSP) STP |
| **17211** | Coronene (TSP) STP |
| **17212** | Perylene (TSP) STP |
| **17215** | Benzo[a]anthracene (TSP) STP |
| **17220** | Benzo[b]fluoranthene (TSP) STP |
| **17223** | Benzo[k]fluoranthene (TSP) STP |
| **17224** | Benzo[e]pyrene (TSP) STP |
| **17231** | Dibenzo[a,h]anthracene (TSP) STP |
| **17237** | Benzo[g,h,i]perylene (TSP) STP |
| **17242** | Benzo[a]pyrene (TSP) STP |
| **17243** | Indeno[1,2,3-cd]pyrene (TSP) STP |

| $PM_{10}$ speciated metals (at STP) | |
|---|---|
| **82101** | Aluminum PM10 STP |
| **82102** | Antimony PM10 STP |
| **82103** | Arsenic PM10 STP |
| **82105** | Beryllium PM10 STP |
| **82107** | Barium PM10 STP |
| **82110** | Cadmium PM10 STP |
| **82111** | Calcium PM10 STP |
| **82112** | Chromium PM10 STP |
| **82113** | Cobalt PM10 STP |
| **82114** | Copper PM10 STP |
| **82119** | Chromium VI PM10 STP |
| **82124** | Gallium PM10 STP |
| **82126** | Iron PM10 STP |
| **82127** | Palladium PM10 STP |
| **82131** | Indium PM10 STP |
| **82132** | Manganese PM10 STP |
| **82134** | Molybdenum PM10 STP |
| **82135** | Molybdenum PM10 STP |
| **82136** | Nickel PM10 STP |
| **82140** | Magnesium PM10 STP |
| **82142** | Mercury PM10 STP |
| **82146** | Lanthanum PM10 STP |
| **82154** | Selenium PM10 STP |
| **82160** | Tin PM10 STP |
| **82161** | Titanium PM10 STP |
| **82164** | Vanadium PM10 STP |
| **82166** | Silver PM10 STP |
| **82167** | Zinc PM10 STP |
| **82168** | Strontium PM10 STP |
| **82173** | Thallium PM10 STP |
| **82176** | Rubidium PM10 STP |
| **82179** | Uranium PM10 STP |
| **82180** | Potassium PM10 STP |
| **82183** | Yttrium PM10 STP |
| **82184** | Sodium PM10 STP |
| **82185** | Zirconium PM10 STP |
| **82190** | Boron PM10 STP |

| $PM_{10}$ speciated metals (at local conditions) | |
|---|---|
| **85102** | Antimony PM10 LC |
| **85103** | Arsenic PM10 LC |
| **85104** | Aluminum PM10 LC |
| **85105** | Beryllium PM10 LC |
| **85107** | Barium PM10 LC |
| **85110** | Cadmium PM10 LC |
| **85111** | Calcium PM10 LC |
| **85112** | Chromium PM10 LC |
| **85113** | Cobalt PM10 LC |
| **85114** | Copper PM10 LC |
| **85117** | Cerium Pm10 Lc |
| **85118** | Cesium Pm10 Lc |
| **85119** | Chromium VI PM10 LC |
| **85126** | Iron PM10 LC |
| **85131** | Indium Pm10 Lc |
| **85132** | Manganese PM10 LC |
| **85134** | Molybdenum PM10 LC |
| **85136** | Nickel PM10 LC |
| **85140** | Magnesium PM10 LC |
| **85142** | Mercury PM10 LC |
| **85154** | Selenium PM10 LC |
| **85160** | Tin PM10 LC |
| **85161** | Titanium PM10 LC |
| **85164** | Vanadium PM10 LC |
| **85166** | Silver PM10 LC |
| **85167** | Zinc PM10 LC |
| **85168** | Strontium PM10 LC |
| **85173** | Thallium PM10 LC |
| **85174** | Thorium PM10 LC |
| **85176** | Rubidium PM10 LC |
| **85179** | Uranium PM10 LC |
| **85180** | Potassium PM10 LC |
| **85183** | Yttrium PM10 LC |
| **85184** | Sodium PM10 LC |
| **85185** | Zirconium PM10 LC |
| **85302** | Sodium Ion Pm10 Lc |
| **85303** | Potassium Ion Pm10 Lc |