



What's New in National Ambient Air Quality Standards?

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What is the NAAQS?

NAAQS are Ambient air quality standards established by the U.S. EPA to protect public health and welfare (among other things).

Pollutants monitored

- Nitrogen dioxide
- Carbon monoxide
- Particulate matter
- Sulfur dioxide
- Lead
- Ozone
- AQD monitors other things, not for NAAQS
 - Volatile organic compounds, semi-volatile organic compounds, metals, meteorological measurements

History of NAAQS

Oxides of Nitrogen NO₂

- The 2010 NO₂ NAAQS
 - added 1-hr standard
 - included a Near Road component

Carbon Monoxide

Particulate Matter (PM_{2.5} and PM₁₀)

Sulfur Dioxide

Lead (Pb)

Ozone

- 2015 Ozone Standard Ozone Trend
- Potential Ozone Non-attainment
- Timeline - Implementation of Standard
 - By October 1, 2016: States (and tribes) recommend the boundaries of the non-attainment area(s). Based on 2013-2015 air quality data
 - Use Five Factor Analysis: Air Quality Data, Emissions Data, Meteorology, Geography, Jurisdictional Boundaries
 - By June 1, 2017: EPA responds to states initial recommendations by proposing their own boundaries. EPA then takes comments on their proposal.
 - By October 1, 2017: EPA issues final area designations; those designations likely would be based on 2014-2016 air quality data.
 - 2020 to 2021: States and tribes complete attainment demonstrations (SIP), outlining how they will reduce pollution to meet the standards.
 - 2020 to 2037: States are required to meet the primary (health) standard, with deadlines depending on the severity of an area's ozone problem.



- Requirements for NAA Classifications
- Maximum allowable for 2016 (4th high not to exceed in ppb)

What's on the horizon?

Upcoming activities

- EPA is supposed to evaluate each NAAQS every 5 years
- Each NAAQS is at a different stage of review
- State SIP milestones are at different stages
 - 2010 SO₂
 - 2015 Ozone
 - 2008 Lead
 - All others in attainment

Near Road Monitoring: In September 2015 MDEQ received grant to collect air toxics data at two metro Detroit near road sites. Sampling to run for two years, beginning Spring 2016.

Coming up!

- Regional Haze changes
- Citizen Science Monitoring
 - [Toolbox for personal air sensors\(https://www.epa.gov/air-research/air-sensor-toolbox-citizen-scientists\)](https://www.epa.gov/air-research/air-sensor-toolbox-citizen-scientists)
- Climate change
 - Clean Power Plan
 - Vehicle standards
- Transport of pollutants to other states (CSAPR)

Thank you!