2025 Annual Monitoring Network Plan

Bureau of Air Quality 5/22/2025





Agenda

- Why an Annual Monitoring Network Plan?
- Proposed 2025 Annual Monitoring Network
 Plan
 - 2024 Changes to the Monitoring Network
 - 2025 Proposed Changes to the Monitoring Network
- Next Steps



Why an Annual Monitoring Network Plan?



Why an Annual Monitoring Network Plan?

- Title 40 Part 58 of the Code of Federal Regulations (Specifically Section 58.10) requires:
 - the State, or where applicable local, agency shall adopt and submit to the Regional Administrator an annual monitoring network plan which shall provide for the establishment and maintenance of an air quality surveillance system that consists of a network of SLAMS monitoring stations including FRM, FEM, and ARM monitors that are part of SLAMS, NCore stations, STN stations, State speciation stations, SPM stations, and/or, in serious, severe and extreme ozone nonattainment areas, PAMS stations, and SPM monitoring stations. The plan shall include a statement of purposes for each monitor and evidence that siting and operation of each monitor meets the requirements of appendices A, C, D, and E of this part, where applicable. The annual monitoring network plan must be made available for public inspection for at least 30 days prior to submission to EPA.
- These plans are due to the EPA Regional Administrator by July 1 of the calendar year.



Why an Annual Monitoring Network Plan?

Pursuant to Section 58.10(a) and (b), network plans must include the following for existing and proposed monitoring sites:

- A statement of purpose for each monitor
- Evidence that siting and operation of each monitor meets the requirements of 40 CFR Part 58, Appendices A, C, D, and E where applicable
- The Air Quality System (AQS) site identification number
- The location, including street address and geographical coordinates
- The sampling and analysis method(s) for each measured parameter
- The operating schedules for each monitor
- Any proposals to remove or move a monitoring station within a period of 18 months following plan submittal
- The monitoring objective and spatial scale of representativeness for each monitor
- The identification of any sites that are suitable and sites that are not suitable for comparison against the annual PM_{2.5} NAAQS, as described in 40 CFR § 58.30
- The Metropolitan Statistical Area (MSA), Core Based Statistical Area (CBSA), Combined Statistical Area (CSA), or other area represented by the monitor



Proposed 2025 Annual Monitoring Network Plan



2024 Changes to the Monitoring Network



- Relocation of PM_{2.5} speciation monitor from Lebanon (Lebanon County) to Harrisburg (Dauphin County)
- Reposition of Potter Township (Beaver County) lead monitor to ground level from building roof
- Items addressed in our 2024 Annual Monitoring Network Plan
 - Add new site for ozone and PM2.5 at Moshannon (Clearfield County)
 - Add PM2.5 at Swiftwater (Monroe County)
 - Add ozone and PM2.5 at Warren Overlook (Warren County)



Relocation of Lebanon's PM2.5 speciation monitor to Harrisburg

 Why relocate our Lebanon PM2.5 speciation monitor to Harrisburg?

2023 PM2.5 design value for Lebanon –

 $8.4 \,\mu g/m^3$.

2023 PM2.5 design value for Harrisburg –

10.1 μ g/m³.

The reason for moving:

To determine what is causing the high PM2.5 at Harrisburg when compared to Lebanon.





Repositioning of Potter Township **Lead Sampler**

Why reposition our Potter Township lead sampler?

Our Potter Township monitor is at the Potter Township Municipal Building.

The reason for moving is two-fold:

- 1.) It was becoming unsafe for our staff to be on the roof to complete maintenance activities on the sampler.
- 2.) Potter Township was planning on replacing the roof of the building.









Items Addressed in our 2024 Annual Monitoring Network Plan

Items addressed in our 2024 Annual Monitoring Network Plan include the following:

- 1.) Reestablishment of the Moshannon site and add ozone and PM2.5 to the site.
- 2.) Add PM2.5 to DEP's Swiftwater site
- 3.) Add ozone and PM2.5 to DEP's Warren Overlook site





2025 Proposed Changes to the Monitoring Network



- Establish new monitoring sites for ozone and PM2.5 in the following areas:
 - Carbon / Schuylkill County area
 - Columbia / Montour / Northumberland County area
- Relocate the Laureldale South lead monitoring site



New Carbon / Schuylkill County Site

Still working on our 2025 AMNP.

Text will be added to describe the facilities in the area.

<u>Special Note:</u> Map will be added once it is created.

Map will include counties and emissions facilities in the area.



New Carbon / Schuylkill County Site

Still working on our 2025 AMNP.

Text will be added to describe the meteorological data in the area.

Special Note: Map will be added once it is created.

Map will include counties and meteorological data wind roses.



New Carbon / Schuylkill County Site

Still working on our 2025 AMNP.

Text will be added to describe the proposed area.

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Map will include counties and proposed area to put a new monitor.



New Columbia /
Montour /
Northumberland /
Snyder / Union County
Site

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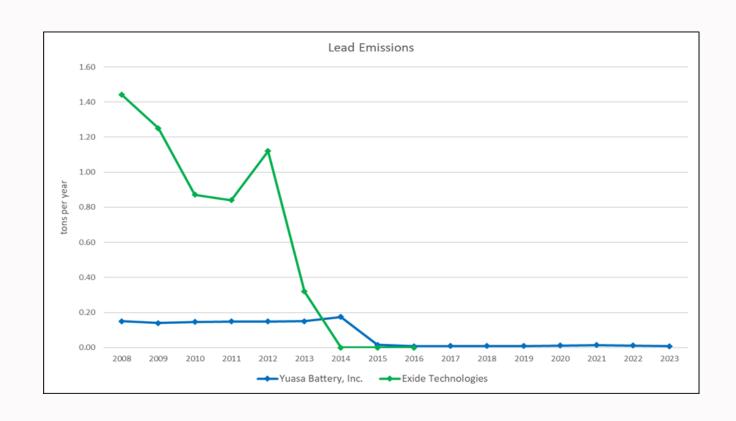


Relocation of South Laureldale Lead Monitoring Site

Why relocate South Laureldale lead monitoring site?

Note: This monitor is within a current 2008 lead NAAQS nonattainment area.

The emissions have changed in the area over the last 10-15 years.





Relocation of South Laureldale Lead Monitoring Site

Why relocate South Laureldale lead monitoring site?

Note: This monitor is within a current 2008 lead NAAQS nonattainment area.

The design values have been well below the 2008 lead NAAQS since 2016.





Relocation of South Laureldale Lead Monitoring Site

Why relocate South Laureldale lead monitoring site?

Note: This monitor is within a current 2008 lead NAAQS nonattainment area.

We would like to be able to better characterize the lead coming from the last remaining facility in the nonattainment area.



average lead concentrations



Next Steps



Next Steps



- DEP's 2025 Annual Monitoring Network Plan will open for a 30-day comment period in the next couple of weeks on the DEP's eComment website (https://www.ahs.dep.pa.gov/eComment/).
- DEP will respond to public comment and then submit to EPA Region 3 for their approval.
- Final approved Annual Monitoring Network Plan and comment and response document will be published to DEP's Bureau of Air Quality website.



Get In Touch

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