



## Proposed 2020 Ambient Air Quality Annual Monitoring Network Plan

**Air Quality Technical Advisory Committee** 

Harrisburg, PA

#### Annual Network Plan Requirements

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 no later than July 1 of the calendar year.



#### **Annual Network Plan Requirements**

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



## Summary of Changes in the 2019 Plan

#### **Establishment of New Monitoring Sites**

- 1.Established Salladsburg (Lycoming County) and Tunkhannock (Wyoming County) SLAMS monitoring sites
- 2. Establishment of the Palmerton High School (Carbon County) special purpose monitoring (SPM) site

#### **Modifications to Criteria Pollutant Monitoring Networks**

- 1.Discontinued H<sub>2</sub>S monitoring at the Warren East (Warren County) monitoring site
- 2.Discontinued PM<sub>2.5</sub> Speciation monitoring at the Marcus Hook (Delaware County) monitoring site
- 3. Relocation of the Lebanon Monitoring Site and Addition of PM<sub>2.5</sub> Speciation Monitoring
- 4. Relocation of the Houston (Washington County) monitoring site
- 5. Relocation of the Strongstown (Indiana County) monitoring site

#### **Modifications to Air Toxics Networks**

- 1.Discontinued the Lewisburg (Union County) monitoring site
- 2. Relocation of the Presque Isle (Erie County) monitoring site



### Summary of Changes in the 2020 Plan

#### **Changes Relating to Natural Gas Extraction and Processing Activities in Shale Gas Regions**

1.Install a PM<sub>2.5</sub> monitor at the Strongstown (Indiana County) monitoring site

Changes Relating to the Annual Assessment of the Ambient Air Quality Monitoring Network

#### **Modifications to the Criteria Pollutant Networks**

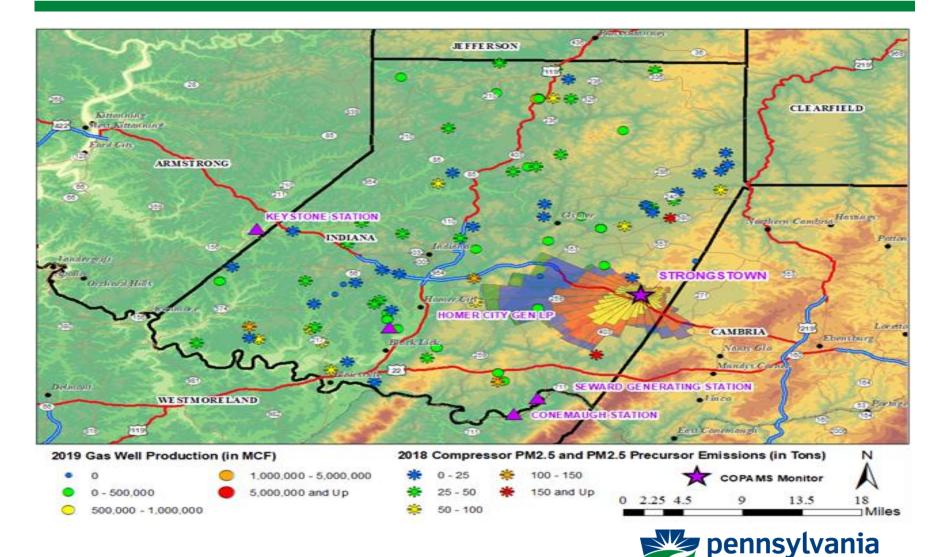
1.Discontinue the Spring Grove (York County) monitoring site



## Site Installation In Progress



## Strongstown, Indiana County Site



**DEPARTMENT OF ENVIRONMENTAL** 

**PROTECTION** 

## **Enhanced Ozone Monitoring**

- 1.VOC canister the VOC canister will be in operation year-round. The VOC sampler will then be analyzed for PAMS compounds at least during the required ozone monitoring season (June 1 to August 31)
- 2.True NO<sub>2</sub> monitor A true NO<sub>2</sub> monitor is necessary to measure the direct NO2 within the atmosphere at the Bristol site
- 3.Ceilometer A ceilometer is necessary to measure the continuous boundary layer height at the Bristol site. (Since we wrote the Proposed ANP we were able to work with UMBC to install a ceilometer at the Bristol site and DEP will also install a ceilometer at our Arendtsville site.)
- 4.Pandora In partnership with NASA/EPA, DEP will deploy a Pandora spectrometer. The Pandora will be able to measure the total atmospheric column of ozone, NO<sub>2</sub> and formaldehyde over the Bristol site









Bureau of Air Quality

# Nick Lazor Division of Air Quality Monitoring

nlazor@pa.gov