



# Ambient Air Monitoring & IRA/ARP Updates

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AUGUST 2024



# Major Highlights/Accomplishments

**PM<sub>2.5</sub> Final NAAQS  
Rulemaking**  
New CSN contract  
awarded

**IRA Direct Awards  
Grant Guidance  
Posted**  
([link](#))

**GAO Asset  
Management**

**Community Air  
Monitoring/Sensor  
Trainings ([link/link](#))**

**Final rule revising  
the Ozone Cross-  
Section in the Ozone  
FRM**

**Air Toxics EtO  
Measurement and  
Method  
Developments**

**PAMS Dashboard**  
([link](#))

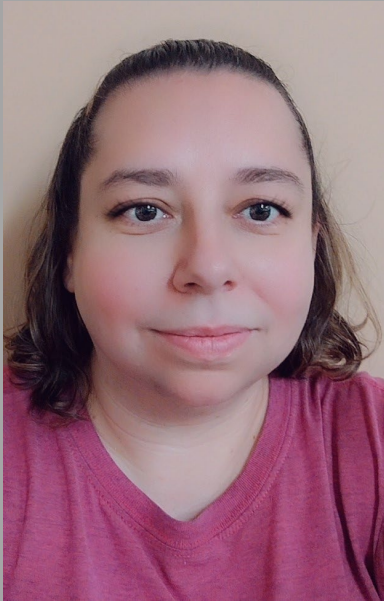
**ARP/IRA  
Competitive Grant &  
Regional Program  
Implementation**



# Quality Assurance Highlights

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- PM<sub>2.5</sub> Rule - QA Program Changes
  - Appendix A, B, and E Updates and Revisions
- Technical Systems Audit Training
  - Attended by 100 QA staff in person and over 250 QA staff virtually from EPA and SLT organizations
- Transfer Standards for Calibration of Air Monitoring Analyzers for Ozone Technical Assistance Document
- Ozone Cross Section Implementation
  - Will be providing oversight to SRP operators and ozone contacts nationally to ensure the change is transferred from the SRPs to the site level monitors
- Revised PAMS QAPP and TAD ([link](#))
- Reinstated PM<sub>2.5</sub> MegaPE and Gravimetric Round Robin Programs
- QAPP Writing Guidance Revision
  - Revised to comply with new QAPP standard, expected September 2024
- QA Handbook Volume IV, Meteorology Handbook, Revision
  - Major Changes including updates with current technology and practices, expected October 2024
- Technical Systems Audits of NATTS and PAMS SLT Programs
- Technical Systems Audits of Regional PM<sub>2.5</sub> PEP, Pb PEP, and NPAP



# AAMG Familiar Faces



# AAMG New Faces





Thank You  
Joann Rice

# Budget

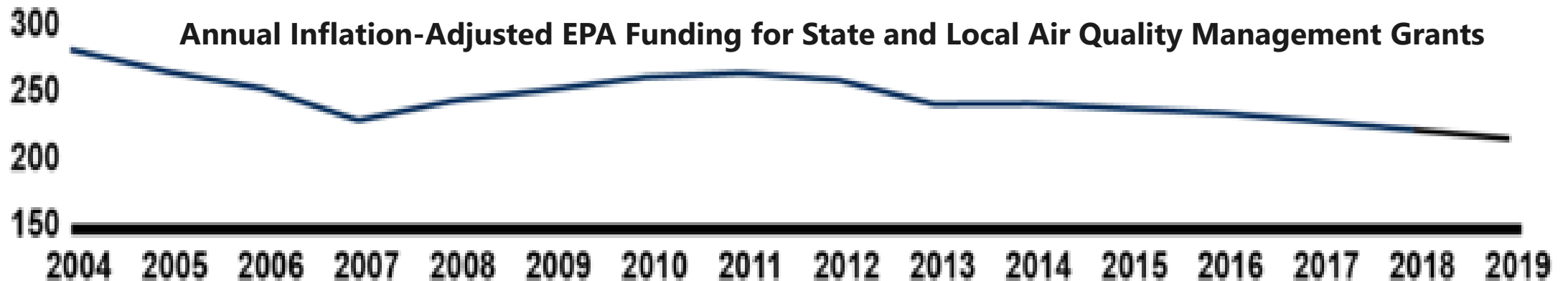
- Congress appropriates annual funds for State, Local, and Tribal air agencies to implement requirements under the Clean Air Act.
- In November 2020, the Government Accountability Office released a report on air monitoring with two recommendations for EPA, 1) to develop an asset management plan and, 2) to publicly post a modernization plan.
- In July 2021, EPA received a supplemental appropriation for air monitoring under the American Rescue Plan (\$50M).
- In 2022, EPA received another set of supplemental appropriations under provisions 60105(a), (b), and (c) in the Inflation Reduction Act totaling \$170.5M.
- The successful planning and execution of supplemental appropriations has increased attention on air monitoring and increased expectations of what governments can do to support air monitoring.
- In contrast, annual STAG base budgets funding State, Local, and Tribal air monitoring grants were cut by \$13.1M in FY24 as shipping, contract, and lab costs increased significantly challenging our ability to sustain existing air monitoring and quality assurance programs.



# Annual Appropriations

EPA's FY 2024 appropriation for state and local air grants totaled \$235.922M -- a decrease of \$13.116M from last year, or 5.27%. While lower than our historic high in FY 2023, this is \$4.531M (1.96%) higher than the FY 2022 total.

Real value fiscal year 2019 dollars (in millions)



Source: GAO analysis of Environmental Protection Agency and U.S. Department of Commerce, Bureau of Economic Analysis, data. | GAO-21-38





# National Ambient Air Monitoring Programs

**Particulate Matter (PM) Networks**

PM<sub>2.5</sub>  
Chemical Speciation Network (CSN)  
IMPROVE



**National Core Network (NCORE) (PM, O<sub>3</sub>, CO, SO<sub>2</sub>, NO, NO<sub>y</sub>, met)**



**Lead Monitoring**



**Near-road Monitoring**



**Ozone**

Photochemical Assessment  
Monitoring Stations (PAMS)



**Air Toxics Trend Stations**

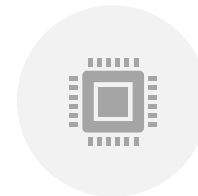
# IRA Monitoring Provisions



60105(a) Fenceline  
Monitoring  
(\$117.5M)



60105(b)  
Multipollutant  
Monitoring (\$50M)



60105(c) Sensors  
(\$3M)



60105(d) Wood  
heaters (\$15M)



60105(e) Methane  
Monitoring (\$20M)

# 60105(a) Fenceline Monitoring

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- **Community Monitoring Grant Competition**
  - Allocated ~\$32M in IRA funds to EPA Regions to award to grant recipients in 2023
  - [Enhanced Air Quality Monitoring for Communities \(arcgis.com\)](https://www.epa.gov/arcgis)
- **Direct Awards to S/L/Ts**
  - Allocated ~\$41M in IRA funds to EPA Regions to award to SLTs to deploy, integrate, support and maintain criteria and air toxics air monitoring in 2024
  - [Air Monitoring and Air Quality Sensors Grants under the Inflation Reduction Act | US EPA](https://www.epa.gov/air-monitoring)
- **Regional Mobile Monitoring Support**
  - Provided funds to EPA Regions for regional mobile monitoring platform equipment and O&M in 2023
- **Funding Ambient & Fenceline Air Toxics Measurement and Method Development**
- **Community Scale Air Toxics Grants**
  - Next competition planned for 2025



# 60105(b) Multipollutant Monitoring

## Direct Awards to S/L/Ts

- ~\$41M allocated to EPA Regions to award to SLTs to increase the number of new air monitoring sites and to replace, repair, operate, and maintain existing sites. [Air Monitoring and Air Quality Sensors Grants under the Inflation Reduction Act | US EPA](#)

## CASTNET

- \$5M allocated to OAP to invest in existing sites, procure and install new equipment to enable robust air quality, climate, and health assessments, and establish new multipollutant monitoring sites on tribal lands

## Grant Implementation

- The remainder of funds under this provision are being used to administer the grants and support implementation

# 60105(c) Sensors

## Direct Awards to S/L/Ts

- ~\$1,982,000 allocated to EPA Regions to award to SLTs to deploy, integrate, and operate air quality sensors in low-income and disadvantaged communities [Air Monitoring and Air Quality Sensors Grants under the Inflation Reduction Act | US EPA](#)

## EPA Regional Sensor Loan Programs, Trainings, and Outreach

- Funded EPA Regions for new or existing EPA Sensor Loan Programs for Communities in 2023 ([link](#))
- Completed a Community Monitoring webinar series in spring 2024 ([link](#) to presentations and recordings)
- EPA's 2025 Air Sensors Workshop – March 18-20<sup>th</sup>, RTP, NC



AirKnowledge is an air quality training program for state, local and Tribal air agencies. The training resources provided by AirKnowledge are also useful to the public, academia, the international community, industry, and U.S. Environmental Protection Agency (EPA) staff. Air quality topics include:

*Air Pollution Basics*  
*Air Quality Modeling*  
*Air Quality Planning*  
*Air Toxics Rule Development and Implementation*  
*Ambient Air Monitoring*  
*Emissions Inventories Permitting*  
*Source Emissions Testing and Source Emissions Monitoring*

A variety of ambient air monitoring self-instructional (e-learning) and classroom materials are available to state, local and Tribal air agencies on the AirKnowledge Learning Management System, which stores learners' progress and offers enhanced functionality. To access the system, register here: [epaapti.csod.com/client/epaapti/default.aspx](http://epaapti.csod.com/client/epaapti/default.aspx). The materials are available to all others on the [airknowledge.gov](http://airknowledge.gov) website.

Have questions or suggestions?

Contact the EPA AirKnowledge team at [airknowledge@epa.gov](mailto:airknowledge@epa.gov)!



# Let's Have a Great Conference!

- August 12 – 15, 2024 in New Orleans, LA.
  - 900+ people registered
  - [Conference Website](#)
- Highlights:
  - Over 100 presentations and 70 exhibitors
  - Hands-on training sessions by instrument companies
  - Topics covering Air Toxics/EtO, PM/PM-speciation, Sensors, Automation, Criteria Gases, and Tribal Monitoring
  - Community Monitoring Showcase
  - Excellent interaction that is not possible in a remote setting

