



OAQPS Ambient Air Monitoring Program Update

**2020 MARAMA Air Quality Monitoring
Training Committee Virtual Workshop**

December 8 – 10, 2020

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AQAD/AAMG



Current Staff and Role Reorganization

Greg Noah – QA Program Lead, POC for QA Inquiries, Air Toxics Lead, PAMS Lead, Sensors POC

Dennis Crumpler – PM_{2.5} PEP Lead, Pb PEP Lead, Pb Audit Strips

Trisha Curran – NPAP Lead, SRP Lead, AIRS QA Lead, AQS QA POC, Data Certification POC

Doug Jager – PGVP Lead, PM_{2.5} CSN Lead, QA Data Assessments POC



Activities and Updates

- COVID-19 QA Guidance Document Developed – Documents flexibility in QA/QC activities
- Documenting QA activities in monitoring programs impacted by COVID-19
- Remote TSA Development – Temporary solution (we hope!)
- Affect on QA Programs – Completeness will suffer, varies by Region
- Data certification impacts – Projecting issues and developing guidance



Re-Engineering Protocol Gas Verification Program (PGVP)

- Lost the R2 RAVL due to internal EPA realignments and budgetary constraints, acquiring new RAVL to assist R7 (R4 to replace R2).
- Major revision of the AA-PGVP QAPP for revision. Will be soliciting SLT and Producers for comment following draft completion.
- Assessing solutions to obtain lower concentration SRMs that are not available directly through NIST.
- Catching up on back logged Annual reports. Should have 2019 Annual completed Dec., and 2020 should be completed April 2021.
- Reengineering survey system to use AQS. Investigating how to obtain PGVP Producer ID along with QA/QC checks submitted to AQS.
- Developing new COC with internal data validation



Standard Reference Photometer Program

- Revitalizing the SRP workgroup
 - Had first SRP Workgroup face to face meeting
 - Important to support ozone cross-section work
- Increased involvement with ORD SRP staff
- Involved in the Ozone TAD revision
- Working to promote better consistency across SRP operators and in ozone traceability



NPEP National Performance Evaluation Programs (NPAP, PM2.5 PEP, and Pb PEP)

- All quality documents (SOPs and QAPPs) are in the update process
- Developed or developing web-based data visualizations for better regional oversight
- Improving audit tools (PEAT/MOPED) to aid auditors in completing audits
- Assessing the programs as a whole to find areas for improvement

Result of Pb PEP Assessment

Issue:

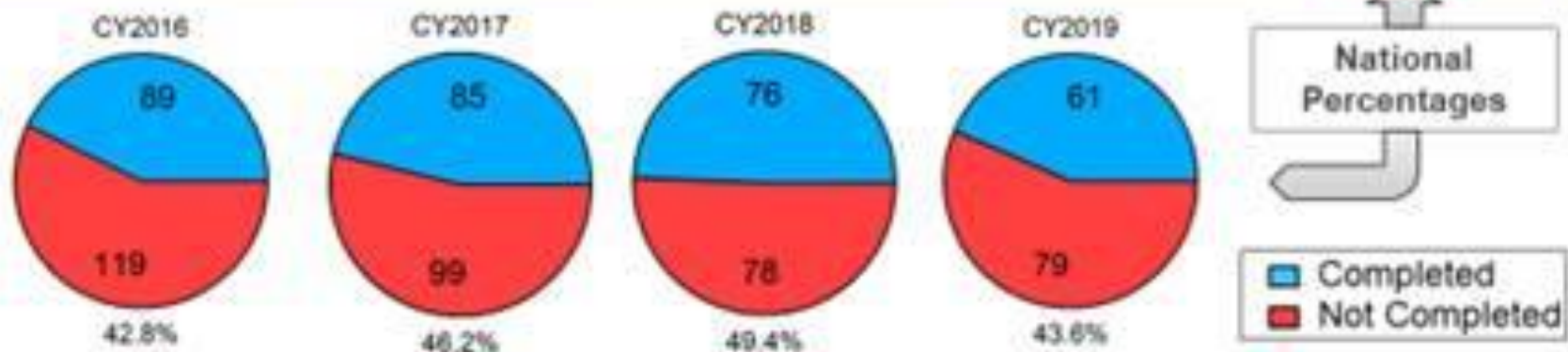
Collocated evaluations have not been completed at the required frequency

Resolution:

Training for QA staff and increased oversight

SLT-Collocated Pb-PEP sampling: How many Pb-PEP sampling events were performed each year?

Year	Pb-PEP Sampling Events Performed by SLT Agencies			
	Required Number to Perform	Total Number Performed	Total Number Performed Minus "Extras" Performed by PQAOs (beyond their required number)	% of Required Number Performed
2016	208	91	89	42.8%
2017	184	88	85	46.2%
2018	154	79	76	49.4%
2019	140	65	61	43.6%





Revision to the Transfer Standards for Calibration of Air Monitoring Analyzers for Ozone (Ozone TAD)

- Revised by the SRP community to reflect current technology
- Added efficiencies that should save time and effort while maintaining the integrity of the ozone monitoring network
 - Reduced number of comparison cycles
 - Reduced time to complete SRP comparisons
- Incorporated the NIST 7 Essential Elements of Traceability
- Promotes national consistency
- Currently out for review and testing in SLT monitoring organizations
- Will be incorporated by reference into CFR

We want your input! Let me know if you do not have this document!



Residence Time Guidance

- Developed by Region 1 and incorporated nationally
- Addressed issues in calculating volume in sampling systems where manifold or tubing diameters were different
- Provided a simple spreadsheet to assist QA staff in calculating residence time

Data Validation Guidance

- In development by the Data Validation Workgroup
- Provides consistent guidance for monitoring organizations in validating data
- Developing data validation spreadsheets as tool to aid reviewers



Teledyne T640/T640x Validation Template

- Initially developed by Region 4 and brought to the national QA community
- Provides validation criteria for each method
- Provides criteria for inclusion into monitoring QAPPs
- Plan to adopt nationally for consistency

Flow Transfer Guidance

- Begun a few years ago, but no current progress
- Intent is to complete it next year if resources are available
- We get inquiries; we haven't forgotten!



Questions?