



# *Tribal Air Monitoring Support Center*

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# *Tribal Air Monitoring Quality Assurance Training*

- QAPP Workshop annually
- Data Management for filter-based monitoring annually
- Data Management for continuous monitoring annually
- QA incorporated into all workshops:
  - Met stations
  - Emissions Inventories
  - Particulate Monitoring
  - Ozone monitoring
- Individual assistance



## *QAPP Workshop*

- All participants have computers available
- Combined lecture/hands-on/writing
- In-class demonstration of the derivation of data quality objectives (CO<sub>2</sub> conc., time, distance)
- Participants leave workshop with draft QAPPs



# *Data Management Workshops*

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- Smaller class size; participants bring data
- Demonstrations of Excel and Access to analyze, interpret and report data
- Annual workshops for both filter and continuous monitoring



## *TAMS Gravimetric laboratory:*

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- Adheres to PEP lab SOPs and requirements
- Weighs PM<sub>2.5</sub> filters for tribes on an interim basis
- Expanding to include PM<sub>10</sub>



## *PM2.5 PEP Field Scientist Training:*

- Needed due to rural location and small staff and budgets of tribes
- 9 trained Tribal Field Scientists; goal is approximately 30
- Goal of TAMS audit monitors shipped to tribes
- Planned network of auditors shipping filters to TAMS or region 4 lab



## *QA assistance to tribes via templates:*

### ★ **Nine template QAPPs**

- **Ozone**
- **PM10 hi-vol**
- **PM10 dichot**
- **PM10 TEOM**
- **PM10 BAM**
- **PM2.5 FRM**
- **SO2**
- **Meteorological measurements**
- **Minivol PM2.5**



## *Tribal templates for:*

- ★ SOPs
- ★ Validation checklists
- ★ Data analysis using Excel spreadsheets for all criteria pollutants and CFR equations
- ★ Data interpretation and reporting; example reports



## *More assistance to tribes:*

- On-site assistance with equipment set-up, verification
- Project planning, siting, experiment design
- Review of QAPPs and SOPs
- Data analysis and reporting



## Multi-media assistance:

- Abandoned uranium mines
- Gas line leaks
- Ground and surface water sampling





