Introduction to Standard Reports
How to get information out of AQS

- Via AQS Standard Reports
  - Run from AQS
  - Requires AQS user-id and password

- Via Non AQS Data Sources using AQS Data
  - Data Mart
  - Air Data
  - Discoverer and Discoverer Replacement
Site & Monitor Reports

- **Site metadata**
  - Location, nearby streets
  - Open Path Set Up
  - Which PM$_{2.5}$, lead or NO$_2$ Monitor is the Primary Monitor
  - AMP380 (Site Description)

- **Monitor metadata**
  - How a given pollutant is measured
  - Sampling length
  - Monitoring frequency
  - Agencies responsible for the monitor and analysis
  - Monitoring objectives
  - Collocation information
  - AMP 390 (Monitor description), AMP220 (Monitor Networks)
Detail Data Reports

- “Raw” data from AQS
  - Can import information into spreadsheet for further processing
  - Open Path Set Up
- Extraction Reports
  - Provide data in AQS transaction format with Insert, Delete or Update codes
  - Useful for duplicating and reloading data
  - AMP500 – Extract Site/Monitor data, AMP501 (Extract Raw Data), AMP503 (Extract Blanks data), AMP350, AMP350MX, AMP350P, AMP350NW (Raw Data records)
Summary Data Reports

- Contains the calculated summary values from AQS
  - Multi-hour Averages (e.g. 8-hour running average)
  - Daily Summaries
  - Site Summaries (PM$_{2.5}$ and Lead Only)
  - Quarterly Summaries
  - Annual Summaries
  - Site Annual Summaries (PM$_{2.5}$ and Lead Only)
  - AMP450 (Quick Look), AMP435 (Daily Summary), AMP355 (Combined Site Sample Values)
Quality Assurance Reports

- Quality Assurance Reports
  - Provide Detail and Summary data on Quality Assurance measures
  - AMP256 (QA Data Quality Indicator Report)
  - AMP251 (QA Raw Assessment report)
  - AMP504 (Extract QA Data)
Raw Data Qualifier report

- Raw data points that have qualifiers
  - Null data code qualifiers
  - Quality assurance qualifiers
  - Exceptional event qualifiers
  - Includes any Regional Office concurrence information
  - AMP360 – Raw Data Qualifier report
Data Certification Reports

- Used to Certify Quality Assurance Measurements
- AMP600 – Certification Evaluation and Concurrence Report
Design Values Report

• Generates the statistics used for NAAQS determinations.
• Also allows the 1) assessment of the effect of exceptional event flagging on Design Values, and 2) the assessment of attainment issues based on partial data.
• AMP480 – Design values report
Standard Reports

- Retrieval
  - Standard report selection
The Process of Creating a Report – Choosing the “Criteria Set”

1. Select report (Report Code field)
2. Specify Output type (Report, Workfile, XML)
3. Establish report-selection criteria
   1. Geography
   2. Pollutants
   3. Date
   4. Screening group
4. Modify report Sort Order criteria (where available)
5. Modify output Report Options (where available)
6. Generate Report
7. As you leave Reports form, prompted to save the Criteria Set.
General Issues

- Do NOT run reports without specifying some limiting selection criteria
- Almost all reports require date-selection criteria
- Sort Order and Report Options available on reports where data structure allows
- Oracle provides output in several formats. PDF generally most reliable.
- Do not use the initial browser window (that started AQS) for any other purpose. If not blank gray, reports will not run properly.
- Email vs online delivery
Standard Reports: Criteria Set

Step 1:
• Pick Your Report
Overview of “and/or” in selections

- **AND within a row**
  - State and county AND site AND parameter AND method AND duration...

- **OR between rows in block**
  - State/County OR State/County or...

- **AND between blocks**
  - State AND Pollutant AND date...
Example 1: and/or in Selections

- All monitors in Iowa reported by University Hygienic Laboratory during January '98
- State 19 AND reporting agency 1080 AND all pollutants AND (>19980101 AND <19980131)
Example 2: and/or in Selections (cont.)

- All criteria monitors in New York or New England during January '98
- (State 36 OR region 01) AND (only criteria pollutants) AND (>19980101 AND <19980131)
Example 3: and/or in Selections (cont.)

- Ozone or sulfur dioxide monitors in New York and Region 1 during January '98
- (State 36 AND region 01) AND (44201 OR 42401) AND (>19980101 AND <19980131)
- This is a Null dataset, “No Data found”
Standard Reports: Sort Order

<table>
<thead>
<tr>
<th>Order</th>
<th>Column Name</th>
<th>Allowed Range</th>
<th>Generate Report</th>
<th>Restore Report Defaults</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>STATE_CODE</td>
<td>1 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>COUNTY_CODE</td>
<td>1 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>SITE_ID</td>
<td>1 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>PARAMETER_CODE</td>
<td>1 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>POC</td>
<td>1 5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Move highlighted column up
- Move highlighted column down
Report options to consider

- Applicable standard
  - Depends on the pollutant(s) you choose

- Exceptional events – on summary reports, show summary data with EDT ID
  - 0
    - 0 – No data has been flagged
  OR
  - 1, 2, and 5
    - 1 – The summary excludes all flagged data
    - 2 – The summary does not exclude any data
    - 5 – The summary excludes regionally concurred flagged data

- The Design Value reports (AMP480) only use 1, 2 and 5
Defaults are shown; Where applicable, the drop
Standard Reports: Progress Popup

Progress popup buttons apply to the POPUP, not to the report.
### Standard Reports: Retrieve Reports

<table>
<thead>
<tr>
<th>RR ID</th>
<th>User Id</th>
<th>Report Code</th>
<th>Request Type</th>
<th>Request Date</th>
<th>Report Stage</th>
<th>% Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>1212352</td>
<td>CIX</td>
<td>LOAD</td>
<td>REPORT</td>
<td>08/05/2014 02:44 PM</td>
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<td></td>
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<td>1212351</td>
<td>CIX</td>
<td>AMP504</td>
<td>BATCH</td>
<td>08/05/2014 02:14 PM</td>
<td>Completed</td>
<td>100</td>
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<tr>
<td>1212350</td>
<td>CIX</td>
<td>AMP501</td>
<td>BATCH</td>
<td>08/05/2014 02:13 PM</td>
<td>Completed</td>
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</tr>
<tr>
<td>1212349</td>
<td>CIX</td>
<td>AMP501</td>
<td>REPORT</td>
<td>08/05/2014 02:12 PM</td>
<td>Completed</td>
<td>100</td>
</tr>
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<td>1212348</td>
<td>CIX</td>
<td>AMP504</td>
<td>REPORT</td>
<td>08/05/2014 02:11 PM</td>
<td>Completed</td>
<td>100</td>
</tr>
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<td>1212347</td>
<td>CIX</td>
<td>AMP251</td>
<td>REPORT</td>
<td>07/23/2014 10:20 AM</td>
<td>Completed</td>
<td>100</td>
</tr>
<tr>
<td>1212346</td>
<td>CIX</td>
<td>AMP256</td>
<td>REPORT</td>
<td>07/23/2014 10:16 AM</td>
<td>Completed</td>
<td>100</td>
</tr>
<tr>
<td>1212344</td>
<td>CIX</td>
<td>AMP256</td>
<td>REPORT</td>
<td>07/22/2014 02:09 PM</td>
<td>Failed - Call Helpdesk</td>
<td>0</td>
</tr>
</tbody>
</table>

*Standard Reports: Retrieve Reports*
Saving a Criteria Set

- Saves the Query... Not the Results of the Query
- Go to the “Criteria Set” Tab
  1) Enter a Name
  2) Enter a Description
  3) Mark as
     - Private” (Just for You)
     - “Public” (For Anyone)
  4) Save / Commit
Put it into practice - Exercise 6 (run a standard report (was Exercise 1.2))
98th percentile completeness for PM2.5 24-hour (2006) standard. Summary criteria met when all 4 site-level quarterly summaries are present, and one of the following is true: quarters are 75% complete, or Annual 98th percentile value greater than the 24-hour standard (35 ug/m3).

“Wtd Arith Mean” for PM2.5 24-annual (2006) standard is based on quarterly means. Summary criteria are met when the percent of observations (quarterly) are >= 75%. (See AQS Data Dictionary section 4.281 and 40 CFR Part 50.13.).

### National Ambient Air Quality Standards

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Primary Standards</th>
<th>Secondary Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter (PM$_{2.5}$)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Averaging Time</td>
<td>Level</td>
</tr>
<tr>
<td>15.0 µg/m$^3$</td>
<td>Annual (6) (Arithmetic Average)</td>
<td>Same as Primary</td>
</tr>
<tr>
<td>35 µg/m$^3$</td>
<td>24-hour (7)</td>
<td>Same as Primary</td>
</tr>
</tbody>
</table>

(6) To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m$^3$.

(7) To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m$^3$ (effective December 17, 2006).
"Comp qtrs" are complete quarters. The number of quarterly summaries, with corresponding pollutant standard and exceptional data type, where the summary criterion is met. For NO2, to have a complete quarter, the number of valid days in a quarter compared to number of total days in a quarter must be \( \geq 75\% \).

"Arith Mean" is arithmetic mean. For NO2, this is the average of the hourly values for the year. This is defined on pages 4-20 and 4-21 of the AQS Data Dictionary.

The "Summary Criteria" column indicates whether or not the annual summary is complete as required by 40 CFR Part 50. I.e. If the mean is valid by these rules, it is set to 'Y', and if it is not, it is set to 'N'. For the NO2 annual standard, 75\% of the hours for the year must have values. (See AQS Data Dictionary section 4.278 and 40 CFR Part 50.11.)

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**National Ambient Air Quality Standards**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Primary Standards</th>
<th>Secondary Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Level</td>
<td>Averaging Time</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>53 ppb (3)</td>
<td>Annual (Arithmetic Average)</td>
</tr>
<tr>
<td></td>
<td>100 ppb</td>
<td>1-hour (4)</td>
</tr>
</tbody>
</table>

(4) To attain this standard, the 3-year average of the 98th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 100 ppb (effective January 22, 2010).
# Ozone (44201)

## Wisconsin

### 1-HOUR

<table>
<thead>
<tr>
<th>SITE ID</th>
<th>C</th>
<th>PQA0</th>
<th>CITY</th>
<th>COUNTY</th>
<th>ADDRESS</th>
<th>YEAR</th>
<th>MKTH</th>
<th>MKRS</th>
<th>REQ</th>
<th>1-HR 1-HR</th>
<th>1-HR 1-HR</th>
<th>1-HR 1-HR</th>
<th>STD</th>
<th>STD</th>
<th>STD</th>
<th>CERT</th>
<th>KDI</th>
</tr>
</thead>
<tbody>
<tr>
<td>55-117-0006</td>
<td>1</td>
<td>1175</td>
<td>Not in a city</td>
<td>Sheboygan</td>
<td>E1286 E TOWER RD KOHLER ANDRE PARK, 1520 OLD PARK ROAD</td>
<td>2010</td>
<td>087</td>
<td>182</td>
<td>184</td>
<td>100</td>
<td>0.999</td>
<td>0.996</td>
<td>0.993</td>
<td>0</td>
<td>0.0</td>
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<td>0</td>
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<td>55-123-0008</td>
<td>1</td>
<td>1175</td>
<td>Not in a city</td>
<td>Vernon</td>
<td>WILDCAT MTN, HWY 33, ONTARIO</td>
<td>2010</td>
<td>087</td>
<td>182</td>
<td>184</td>
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<td>0.072</td>
<td>0.068</td>
<td>0.067</td>
<td>0</td>
<td>0.0</td>
<td>0</td>
<td>0</td>
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<td>55-125-0001</td>
<td>1</td>
<td>1175</td>
<td>Boulder Junction</td>
<td>Vilas</td>
<td>TROUT LAKE NURSERY, COUNTY HWY M</td>
<td>2010</td>
<td>087</td>
<td>182</td>
<td>184</td>
<td>0.074</td>
<td>0.068</td>
<td>0.068</td>
<td>0.066</td>
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<td>1175</td>
<td>Lake Geneva</td>
<td>Walworth</td>
<td>LAKE GENEVA NAP SITE, RR4 ELGIN CLUB RD</td>
<td>2010</td>
<td>087</td>
<td>183</td>
<td>184</td>
<td>0.074</td>
<td>0.074</td>
<td>0.072</td>
<td>0</td>
<td>0.0</td>
<td>1</td>
<td>0</td>
<td></td>
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<tr>
<td>55-131-0009</td>
<td>1</td>
<td>1175</td>
<td>slinger</td>
<td>Washington</td>
<td>SLINGER, HWY 60 &amp; SCENIC, POLK TOWNSHIP</td>
<td>2010</td>
<td>087</td>
<td>184</td>
<td>184</td>
<td>0.083</td>
<td>0.075</td>
<td>0.070</td>
<td>0.068</td>
<td>0</td>
<td>0.0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>55-133-0027</td>
<td>1</td>
<td>1175</td>
<td>Waukesha</td>
<td>Waukesha</td>
<td>1310 CLEVELAND AVE</td>
<td>2010</td>
<td>087</td>
<td>184</td>
<td>184</td>
<td>0.082</td>
<td>0.079</td>
<td>0.073</td>
<td>0.071</td>
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<td>0.0</td>
<td>0</td>
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</tbody>
</table>

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<table>
<thead>
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<th>Primary Standards</th>
<th>Secondary Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pollutant</td>
<td>Level</td>
</tr>
<tr>
<td>Ozone</td>
<td>0.075 ppm</td>
<td>8-hour ([8])</td>
</tr>
<tr>
<td></td>
<td>0.08 ppm</td>
<td>8-hour ([9])</td>
</tr>
<tr>
<td></td>
<td>0.12 ppm</td>
<td>1-hour ([10])</td>
</tr>
</tbody>
</table>

\([8]\) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)

\([9]\) (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

(c) EPA is in the process of reconsidering these standards (set in March 2008).

\([10]\) (a) EPA revoked the 1-hour ozone standard in all areas, although some areas have continuing obligations under that standard (“anti-backsliding”).

(b) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is \(\leq 1\).
Maximum Values

<table>
<thead>
<tr>
<th>State:</th>
<th>Kansas</th>
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<tbody>
<tr>
<td>Duration:</td>
<td>24-HR BLK AVG</td>
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<tr>
<td>Year:</td>
<td>2009</td>
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### Maximum Values

**PM10 Total 0-10um STP (81102)**

<table>
<thead>
<tr>
<th>Site ID</th>
<th>POC</th>
<th>County Name</th>
<th>City Name</th>
<th>Methods</th>
<th>1st Max</th>
<th>2nd Max</th>
<th>3rd Max</th>
<th>4th Max</th>
<th>5th Max</th>
<th>Num</th>
<th>Num</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-173-0009</td>
<td>1</td>
<td>Sedgwick</td>
<td>Wichita</td>
<td>079</td>
<td>55</td>
<td>44</td>
<td>42</td>
<td>40</td>
<td>40</td>
<td>0</td>
<td>363</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>03/06:00</td>
<td>10/01:00</td>
<td>07/11:00</td>
<td>02/06:00</td>
<td>04/09:00</td>
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<td>06/26:00</td>
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<thead>
<tr>
<th>Site ID</th>
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<td>42</td>
<td>40</td>
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<td>365</td>
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<td>02/06:00</td>
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<td>06/06:00</td>
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<td>06/27:00</td>
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<th>Methods</th>
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<th>2nd Max</th>
<th>3rd Max</th>
<th>4th Max</th>
<th>5th Max</th>
<th>Num</th>
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<td>079</td>
<td>66</td>
<td>55</td>
<td>44</td>
<td>42</td>
<td>40</td>
<td>0</td>
<td>365</td>
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<td>06/06:00</td>
<td>06/26:00</td>
<td>06/27:00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Multiple lines are due to multiple event types. Check your report criteria.
Design Values
– available for PM10, PM2.5, SO2, NO2, ozone

Each design value is for a 3-year period.
Where to Find AQS Help

- On-Line Help from the Application
- AQS Documentation
- On the Phone
- Internet Training
- AQS Regional Contacts
- Other Users
From the Application

- “Help” From the Menu
- Topics
- Short-Cut Keys
- Display Error
- Field-Level Help
Help within AQS

Data Completeness Workfile

When user requests a work file, two separate files will be produced:
- Summary level information on a per EPA Region, State, Reporting Organization, Parameter, and Monitor Type basis.
- Monitor level information, which contains month-by-month counts and percentages of samples collected by the monitor.

<table>
<thead>
<tr>
<th>Field</th>
<th>Summary Workfile Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EPA_REGION</td>
</tr>
<tr>
<td>2</td>
<td>STATE</td>
</tr>
<tr>
<td>3</td>
<td>REPORTING ORGANIZATION NAME</td>
</tr>
<tr>
<td>4</td>
<td>MONITOR_TYPE</td>
</tr>
<tr>
<td>5</td>
<td>PARAMETER_NAME</td>
</tr>
<tr>
<td>6</td>
<td>NUMBER MONITORS EVALUATED</td>
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<td>3</td>
<td>PARAMETER CODE</td>
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<td>REGION</td>
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User Support

EPA Helpdesk
- 1-866-411-4372
- epacallcenter@epa.gov
- 2 “Levels” of Support
  - Level 1: Reset Passwords
  - Level 2: AQS Specific Issues

CDX Helpline
- 1-888-890-1995
- nodehelpdesk@epacdx.net
AQS Documentation

- Manuals and Guides:
  https://www.epa.gov/aqs/aqs-manuals-and-guides
  - AQS Data Coding Manual
  - AQS Input Transaction Formats
- AQS Fundamentals and AQS User Guide:
  https://www.epa.gov/aqs/aqs-users-guide-0
- AQS Data Dictionary:
  https://www.epa.gov/aqs/aqs-data-dictionary
- Memos:
  https://www.epa.gov/aqs/aqs-data-dictionary
  (under AQS Information)
Teleconference Training From NADG

- **New User Orientation – Pamela McIntyre/ Donnie Brown**
  - Monthly on the 3rd Wednesday
  - Walk-Through Basic Functions

- **Tribal Q&A – Pamela McIntyre/ Donnie Brown**
  - Bi-Monthly on the 2nd Wednesday
Additional Training Resource

- All AQS Training is archived at:
  
  https://www.epa.gov/aqs/aqs-training
THE END
AQS Regional Contacts

- Mary Jane Cuzzupe
  - (617) 918-8383
- Henry Feingersh (II)
  - (212) 637-3382
- Pauline DeVose (III)
  - (215) 814-2186
- Darren Palmer (IV)
  - (404) 562-9052
- Jesse McGrath (V)
  - (312) 886-1532
- Trisha Curran (VI)
  - (214) 665-8245
- James Regehr (VII)
  - (913) 551-7167
- Joe Delwiche (VIII)
  - (303) 312-6448
- Fletcher Clover (IX)
  - (415) 972-3991
- Jan Noel (X)
  - (206) 553-1691