

CARB PQAQO
Training

February 27-28,
2024

Fletcher Clover,
EPA Region 9

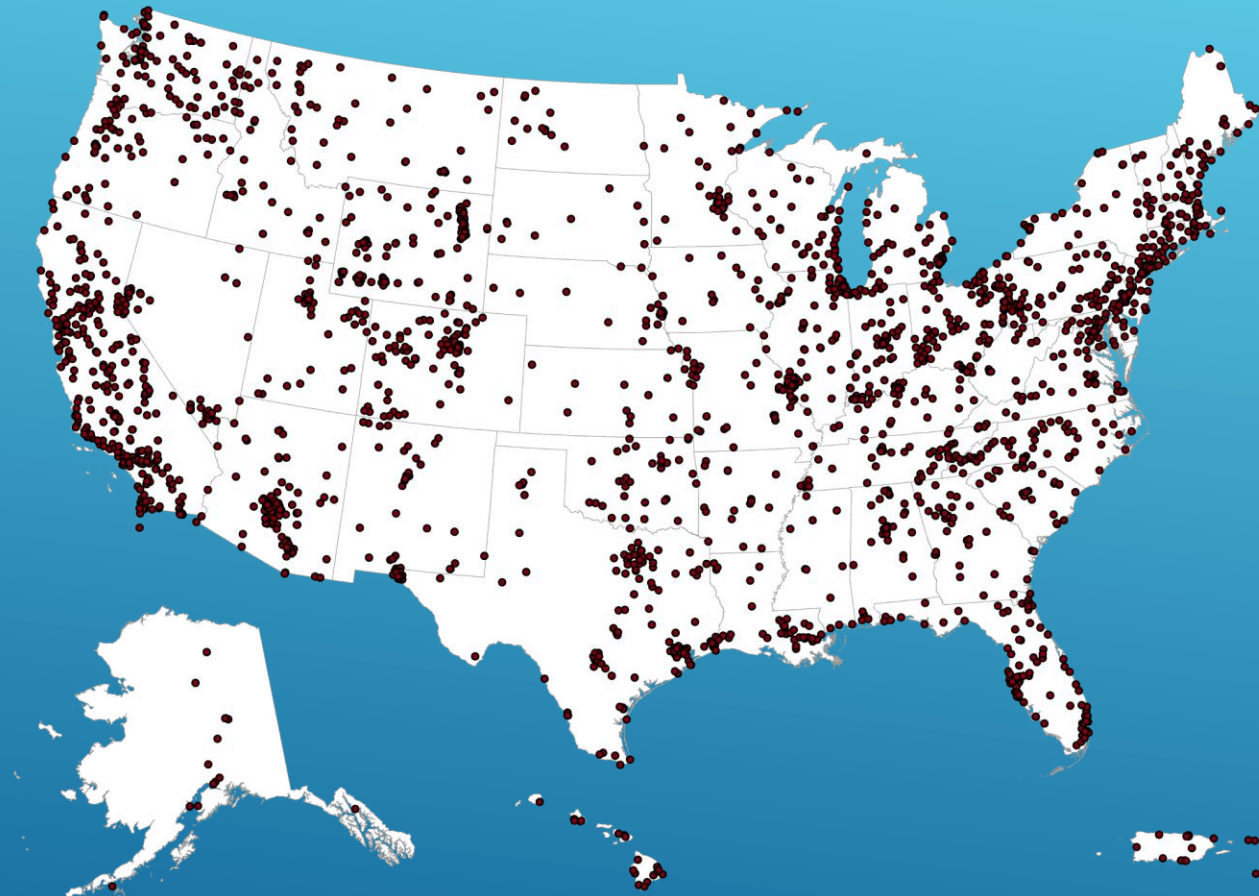
WORKING WITH EPA'S AIR QUALITY SYSTEM (AQS)



OVERVIEW

- An introduction to AQS
- Data transactions – what AQS contains, and what they are
- How to upload data to AQS
- How to correct data in AQS
- Data upload requirements – what's needed, and when
- Resources and help





- AQS is the EPA's database for regulatory actions
- Hundreds of thousands of monitors, billions of data points, 1957 onward
- Includes:
 - Ambient concentrations
 - Monitor/site metadata
 - QA/QC data



DATA TRANSACTION EXAMPLE

Transaction type	Action indicator	Duration code (1 hr)				Reported unit ($\mu\text{g}/\text{m}^3$)		Reported sample value													
RD	I	04	013	9998	81102	1	1	001	122	20230211	12:00	38									
RD	I	04	013	9998	81102	1	1	001	122	20230211	13:00	AV									

- Monitor ID**
- State code
 - County
 - Site
 - Parameter
 - POC

Method code
(Met One 4 Models)

Date

Sample begin time

Null Data Code
("AV" is a code for "power failure")


Qualifier codes 1-10



- Transaction descriptions: <https://aqs.epa.gov/aqsweb/documents/TransactionFormats.html>
- Code descriptions: <https://www.epa.gov/aqs/aqs-code-list>

How to upload data to AQS

Environmental Information



SERVICES CENTER

[Help](#) | [Contact Us](#)

SERVICES CENTER

The Exchange Network Services Center is a web-based tool designed to allow Exchange Network users to easily send, get, and download information from other partners on the network.

Note: to access this tool, you must already have an Exchange Network user account assigned to you.

[Request an Account](#)

Login

Username:

Password:

[Forgot Username](#)

GO TO
[HTTPS://ENSERVICES.EPA.GOV/LOGIN.ASPX](https://enservices.epa.gov/login.aspx)



How to upload data to AQS

Home

My Services Center

Exchange Network Services

News & Data Channels

MY SERVICES CENTER

Quickly access the services and queries you use and check the status of your requests [GO](#)



EXCHANGE NETWORK SERVICES

Send, get, and download information from Exchange Network partners [GO](#)



NEWS & DATA CHANNELS

View news and data feeds from Exchange Network partners, subscribe to channels of interest, or contribute your own content to these channels [GO](#)



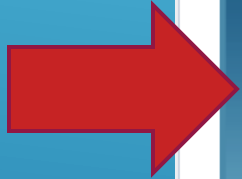
My Quick Links

[Manage](#)

- » [AQS production](#)
- » [Exchange Network](#)
- » [Exchange Network Discovery Services \(ENDS\)](#)
- » [Production CDX Web](#)



Check out our [News Feed](#) for the latest on what's happening with the Exchange Network Services Center



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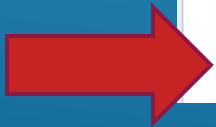
Make this my Start page

My Services ? Access services you have used before. [Use a New Service](#)

[All](#) | [Send Info](#) | [Get Info](#) | [Download](#) | [Execute](#) | [My Queries](#)

Find a Service: My Services Services Directory [Find](#)

<u>Service Name</u>	<u>Service Description</u>	<u>Publisher</u>	<u>RSS-enabled</u>	<u>Last Used</u>
NGNProd2.0/AQS/AQS Submit	AQS Submit: Send files to the Air Quality System (AQS).	U.S. Environmental Protection Agency	No	3/2/2023 12:44:56 PM -05:00



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(Added to My Quick Links)

Express Request: AQS Submit ?

Select a Document to Upload (max. size 1 GB):
 PM10 monitor raw data example.txt

You have selected the following file(s):
PM10 monitor raw data example.txt [View](#) | [Remove](#)

Enter Sender's Email Address to Notify of Transaction Status Changes:

AQS User ID:

Additional Data Flow Specific Information:
Screening Group :
 ▼

File Type :
 ▼

Final Processing Step :
 ▼

Stop On Error :
 ▼

► [Provide information \(metadata\) about this Document \(recommended\)](#)

[Cancel](#)

You are currently using the following Service:

Service Name
AQS Submit

Description
AQS Submit: Send files to the Air Quality System (AQS).

Transaction Type
Submit

Dataflow
AQS

Node
NGNProd2.0

Publisher
U.S. Environmental Protection Agency


[Click here for Additional service help information](#)

[Select a different Service](#)



How to upload data to AQS

Environmental Information



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Request Received!

Your File **PM10 monitor raw data example.txt** has been received.

The following **Transaction ID** has been assigned to this request:

`_92a2beaf-470e-487f-8da2-10969b300d32`

Current Status of Request:

Transaction Status	Service Name	Transaction Type	Date
Processing	AQS Submit	Send Information	12/12/2023 11:13 AM

What would you like to do next?

- [View the Status of this request in My Activity](#)
- [Complete another Transaction using this same Service](#)
- [Complete another Transaction using a different Service](#)
- [Add this Service to My Quick Links](#)
- [Log out of the Services Center](#)



How to correct data to AQS



CONTACT US

Air Quality System (AQS)



The Air Quality System (AQS) contains ambient air pollution data collected by EPA, state, local, and tribal air pollution control agencies from over thousands of monitors. AQS also contains meteorological data, descriptive information about each monitoring station (including its geographic location and its operator), and data quality assurance/quality control information.

AQS Support

- [New User Registration](#)
- [How to Obtain User Support](#)
- [Training](#)
- [Events Calendar](#)
- [AQS Java Memo](#)

Documentation

- [All Manuals and Guides](#)
- [AQS Users Guide](#)
- [AQS Code Lists](#)
- [Data Dictionary](#)
- [Data Coding Manual](#)
- [AQS Primer](#)
- [AQS Tips and FAQs](#)

Tools to Upload AQS Data



Launch Web Application

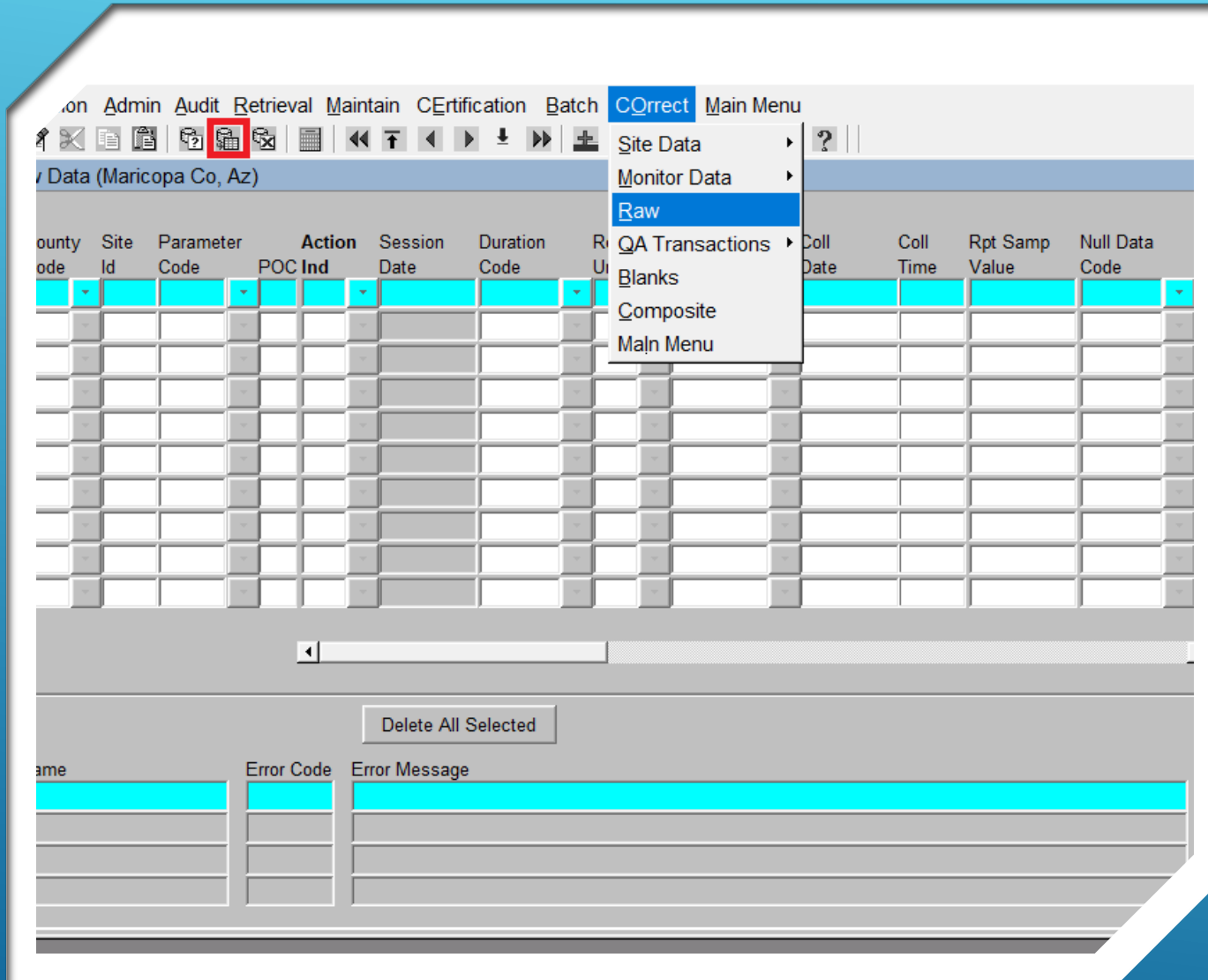
GO TO
[HTTPS://WWW.EPA.GOV/AQS](https://www.epa.gov/aqs)

CLICK THE BLUE AQS BUTTON

CLICK THE SCREENING
GROUP ACCESS RADIO
BUTTON AND SELECT
YOUR SCREENING GROUP



How to correct data to AQS



The screenshot shows a software interface with a menu bar at the top containing 'Admin', 'Audit', 'Retrieval', 'Maintain', 'Certification', 'Batch', 'Correct', and 'Main Menu'. The 'Correct' menu is open, displaying options: 'Site Data', 'Monitor Data', 'Raw', 'QA Transactions', 'Blanks', 'Composite', and 'Main Menu'. The 'Raw' option is highlighted. Below the menu is a data table with columns: 'County Code', 'Site Id', 'Parameter Code', 'Action POC Ind', 'Session Date', 'Duration Code', 'Rpt Samp Value', 'Coll Date', 'Coll Time', and 'Null Data Code'. The first row of the table is highlighted in cyan. Below the table is a 'Delete All Selected' button and an error log table with columns 'Name', 'Error Code', and 'Error Message'. The first row of the error log is also highlighted in cyan.

GO TO THE CORRECT
DROP-DOWN MENU,
AND SELECT **RAW**

TYPE IN THE MONITOR ID
AND DATE, AND CLICK
THE **EXECUTE QUERY**
BUTTON



How to correct data to AQS

The screenshot shows the AQS software interface. At the top, there is a menu bar with options: Action, Help, Session, Admin, Audit, Retrieval, Maintain, Certification, Batch, Correct, and Main Menu. Below the menu bar is a toolbar with various icons. A red arrow points to the 'Save' icon in the toolbar. The main window displays a table titled 'Correct - Raw Data (Maricopa Co, Az)'. The table has columns for State Code, County Code, Site Id, Parameter Code, Action POC Ind, Session Date, Duration Code, Reported Unit, Method Code, Coll Date, Coll Time, Rpt Samp Value, Null Data Code, and C. The first row of data is highlighted in blue. Below the table, there is a 'Delete All Selected' button with a red arrow pointing to it. At the bottom, there is an error message table with columns for Column Name, Error Code, and Error Message. The first row of the error message table is highlighted in blue.

State Code	County Code	Site Id	Parameter Code	Action POC Ind	Session Date	Duration Code	Reported Unit	Method Code	Coll Date	Coll Time	Rpt Samp Value	Null Data Code	C.
04	013	9998	81102	1	20231214	1	001	122	20230101	00:00	226		
04	013	9998	81102	1	20231214	1	001	122	20230101	01:00	116		
04	013	9998	81102	1	20231214	1	001	122	20230101	02:00	30		
04	013	9998	81102	1	20231214	1	001	122	20230101	03:00	55		

Column Name	Error Code	Error Message
RELATIONAL	-20562	Attempted to insert a value for an existing date and time.

CLICK THE **DELETE ALL SELECTED** BUTTON, AND SAVE

IF YOU WANT TO CONFIRM THE DATA HAVE POSTED, RUN AN AMP350 RAW DATA REPORT

2024 AQS Data Submittal Schedule



Resources and help

- Access AQS at <https://www.epa.gov/aqs>
- Upload from the Exchange Network Services Center (ENSC), at <https://enservicetest.epacdxnode.net/login.aspx>
- Troubleshoot small amounts of data in the Correct Raw Data form
- Contact me or check out the following resources if you need any help:



Resources and help

- **AQS USER'S GUIDE** AND TRANSACTIONS GUIDANCE AT [HTTPS://WWW.EPA.GOV/AQS/AQS-MANUALS-AND-GUIDES](https://www.epa.gov/aqs/aqs-manuals-and-guides)
- AQS CODES LIST AT [HTTPS://WWW.EPA.GOV/AQS/AQS-CODE-LIST](https://www.epa.gov/aqs/aqs-code-list)
- AQS FAQ AT [HTTPS://WWW.EPA.GOV/AQS/FREQUENT-QUESTIONS](https://www.epa.gov/aqs/frequent-questions)



RESOURCES

THANK YOU!



FLETCHER CLOVER
EPA REGION 9 AQS CONTACT
CLOVER.FLETCHER@EPA.GOV

(415) 972-3991

CONTACT
INFO

