







Webinar Logistics





- Webinar is being recorded URL for the recording will be in post-webinar email and posted at <u>http://www7.nau.edu/itep/main/training/Webinars_air2021</u>
- Please complete the webinar feedback survey Link for the feedback survey will be in post-webinar email
- Certificates will be emailed to participant

Thank you for joining the webinar! Tuesday, March 30, 2021; 10:00am-11:30am Pacific Time

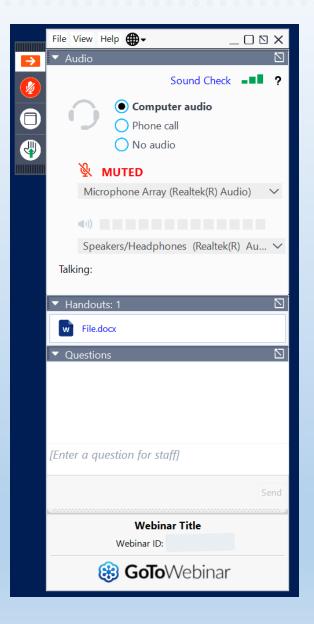
Submit questions in the "Questions" pane

W Raise your hand if you would like to be unmuted

Download files from the "Handouts" pane



Presented by the Institute for Tribal Environmental Professionals American Indian Air Quality Training Program Questions? Contact <u>Christal.Black@nau.edu</u>







Polling Questions

Poll Question 1





- Which of the following best describes your role?
 - o Environmental Staff
 - Community or Tribal Leader
 - Federal or State Partner
 - \circ Other

Poll Question 2





- Did you attend AQS Basics Webinar 1?
 - o Yes
 - 0 **No**
 - $\circ~$ I'll watch the webinar recording later

Presenters

Michael King NAU ITEP TAMS Center





Tribal Air Monitoring

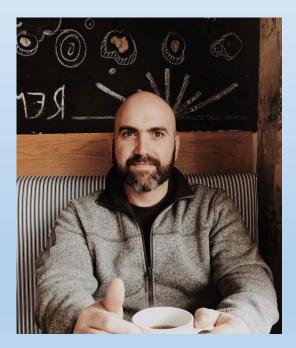


Chris Chapman US EPA OAQPS

Stuart Gray US EPA OAQPS



Michael Brooks US EPA OAQPS



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Brooks.MichaelS@epa.gov

Overview





- Creating a Site and Monitor in AQS
- How to Format and Load Data to AQS (AQS Batch Data Submissions)
- Correcting Data in AQS
- How to Load Quality Assurance Data to AQS
- US EPA AQS Resources & Training Materials

Launch the AQS Database & Login

- Go to the AQS website: https://www.epa.gov/aqs
- Click on "AQS Launch Web AQS Application" Window Logon

Login to AQS

EISD@epa.gov 1-866-411-4EPA - (4372)

 Select Screening Group Access

The Air Quality System (AQS) is a United States Environmental Protection Agency (EPA which may be accessed and used for authorized purposes only. Unauthorized access or subject violators to criminal, civil, and/or administrative action. All informatio may be monitored, recorded, read, copied, and disclosed to and by authorized pe official purposes, including law enforcement. Access or use of this computer system by a authorized or unauthorized, constitutes consent to these terms. AQS is exclusively for th Territorial, and Tribal environmental agency employees and their delegatees working in the

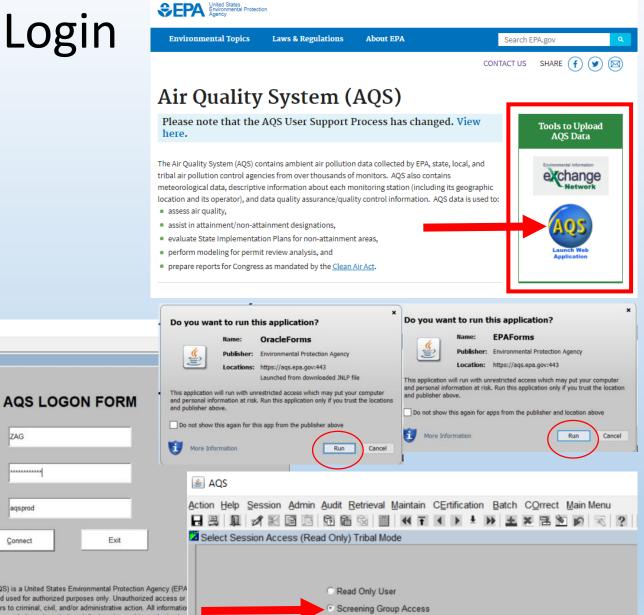
Username:

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Database:

agsprot

Connect



AQS Main Menu (Tribal Mode)

- Once logged into AQS, the **Main Menu** will appear
- Be sure to select Tribal Mode
- Click on "Action" then "Tribal Mode On"
- Allows federally recognized Tribal Codes to be visible

🛓 AQS		
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How to Create a Site in AQS

Before Creating a Site in AQS, you'll need to know

- Tribal Code
- State & County + unique Site ID
- Latitude & Longitude (in decimal degrees)
- Horizontal Datum (usually a setting on your GPS; if using Google Earth, WGS84)
- Horizontal Method (the method used to determine the lat/long)
- Horizontal Accuracy (the accuracy as a range of the lat/long in meters)
- Vertical Measure (the height, in meters, of the site above/below mean sea level)
- Vertical Datum (usually a setting on your GPS)
- Street Address of the site
- Land Use Type (within a ¼ mile of the site, is it residential, agricultural, rural)
- Location Setting (Urban/City Center, suburban, rural?)
- Site Established Date (date must be before or on the date any sampling began)
- Local Site Name (Optional)
- Your Tribe is presumably the one supporting this site, so it would be the "supporting agency"

AQS e-Learning: How to Create a Site in AQS

- AQS provides free, online training to help users learn to effectively navigate AQS and build their skills
- Go to AQS Website and click on "Training" then under e-Learning click on "Create a New Site"

e-Learning

- 1. <u>eLearning How to Login to AQS(1 KB)</u>
- 2. <u>eLearning Batch Loading through the ENSC(2 KB)</u>
- 3. <u>eLearning Create a New Site</u>(2 KB) <
- <u>eLearning Create a New Monitor</u>(2 KB)

1/2 1/D



- Memos About Reporting Pollutants
- Ouality Assurance & Audit Memos
- Archive Data
- Related Resource Links

- Documentation
- All Manuals and Guides
- AQS Users Guide
- AOS Code Lists
- Data Dictionary
- Data Coding Manual

Obtaining AQS Data

- How to Obtain AQS Data
- API
- About the AQS Data Mart
- Pre-Generated Data Files
- AirData

Contact Us to ask a question, provide feedback, or report a problem.

AOS Training

Need help with AQS? Want to learn something new?

AQS provides free, online training to help users learn to effectively navigate AQS and build their skills. Get your questions answered! Learn from AQS experts, see engaging demos, explore scenarios, and get the training you need to apply your new skills right away

Get familiar with features in minutes. Watch short, engaging videos.

You can see the ever growing list of instructor videos and choose which ones you want to watch, or you can view multiple videos in a row about a particular topic. Use the number lists to watch videos that build upon each other.

Video

1. Launching AQS in Chrome(4 KB) 2. How to Log Into AQS(3 KB) 3. Understanding Batch Submissions(2 KB) 4. ENSC Login Instructions(3 KB) 5. Submitting Data through ENSC(3 KB) 6. AQS Batch Form Overview(2 KB) 7. Loading Files in AQS(2 KB) 8. Mapping Monitors(5 KB) 9. AQS Data Certification(2 KB)

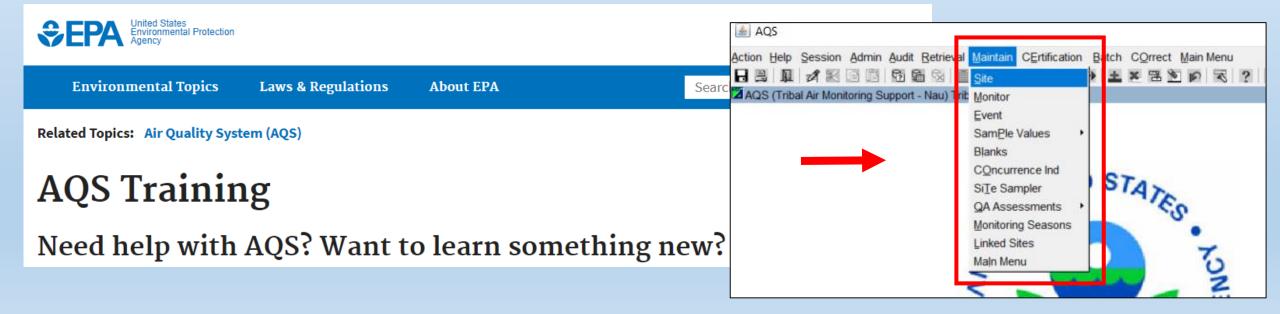
e-Learning

1. eLearning - How to Login to AQS(1 KB) 2. eLearning - Batch Loading through the ENSC(2 KB) 3. eLearning - Create a New Site(2 KB) eLearning - Create a New Monitor(2 KB)

Create a New Site in AQS

e-Learning Demonstration

AQS Training Website: https://aqs.epa.gov/aqsweb/training/Training.html



How to Create a Monitor in AQS

AQS e-Learning: How to Create a Monitor in AQS

- Go to AQS Website at https://www.epa.gov/aqs
- Click on "Training" then under e-Learning click on "Create a New Monitor"

e-Learning

- 1. <u>eLearning How to Login to AQS(1 KB)</u>
- 2. <u>eLearning Batch Loading through the ENSC(2 KB)</u>
- 3. <u>eLearning Create a New Site</u>(2 KB)

4. <u>eLearning - Create a New Monitor</u>(2 KB)



Documentation

- All Manuals and Guides
- AQS Users Guide
- AOS Code Lists
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e-Learning

1. eLearning - How to Login to AQS(1 KB) 2. eLearning - Batch Loading through the ENSC(2 KB) 3. eLearning - Create a New Site(2 KB) 4. eLearning - Create a New Monitor(2 KB)

Create a New Monitor in AQS

e-Learning Demonstration

AQS Training Website: https://aqs.epa.gov/aqsweb/training/Training.html



Poll Question 3





- After viewing the videos do you feel confident enough to establish a site and monitor in AQS on your own?
 - o Yes
 - \circ No
 - Maybe

How to Format Data for AQS Upload

VALIDATION (QA) TOOLS

- Data Acquisition Systems such as EDAS, AirVision can validate and format data
- Tribal Data Toolbox & QREST (forthcoming) can validate and format data
- AQS QA Transaction Generator (still available, but no longer supported)
 - <u>https://19january2017snapshot.epa.gov/aqs/aqs-transaction-generator</u>.html

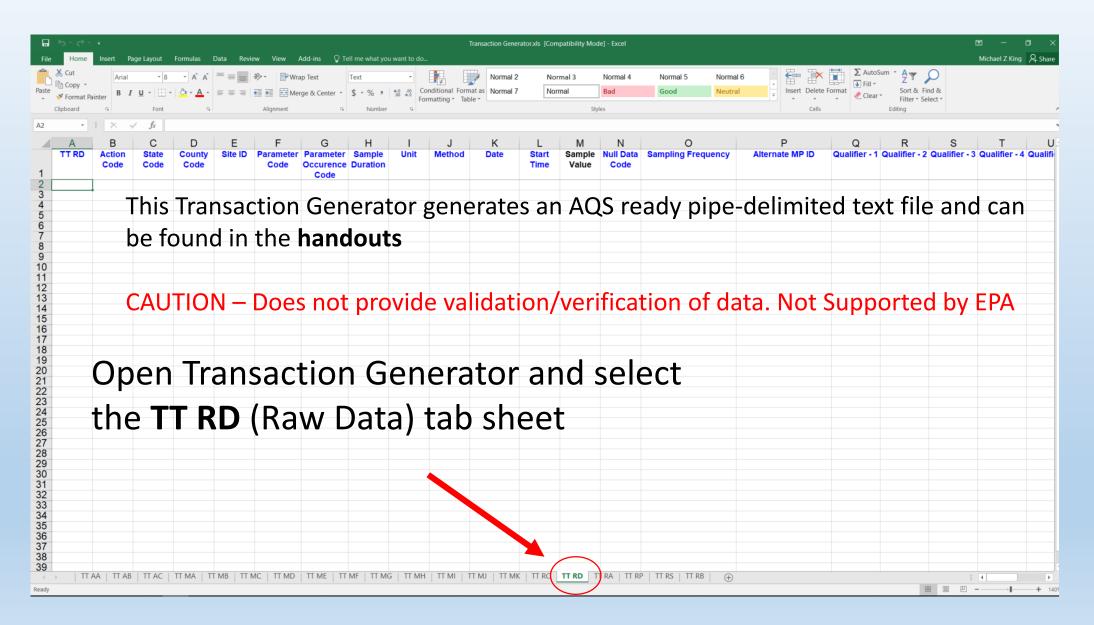
United States Environmental Protection Agency		
Environmental Topics Laws & Regulations About EPA	Search 1/19/17 snapshot	
Related Topics: Air Quality System (AQS)	This is not the current EPA website. To r	avigate to the current EPA website, please go to <u>www.epa.gov</u> . This website is historical ma
AQS Transaction Generator	reflecting the EPA website as it existed or internal pages may not work. More info	n January 19, 2017. This website is no longer updated and links to external websites and so <u>rmation</u> »
The AQS QA Transaction Generator is a tool that facilitates the creation of QA Trans make up the transaction are verified against AQS data and business rules to ensure		
QA Transaction Generator is now built using a universal model and will run on eith	er the 32 bit version or the 64 bit version of Windows.	Example SOP for the QA Transaction
Download the AQS QA Transaction Generator: <u>aqsqatransactiongenerator</u> (1 pg, 21 M	B, 12/07/2016)	Generator will be posted to the NAU ITEP

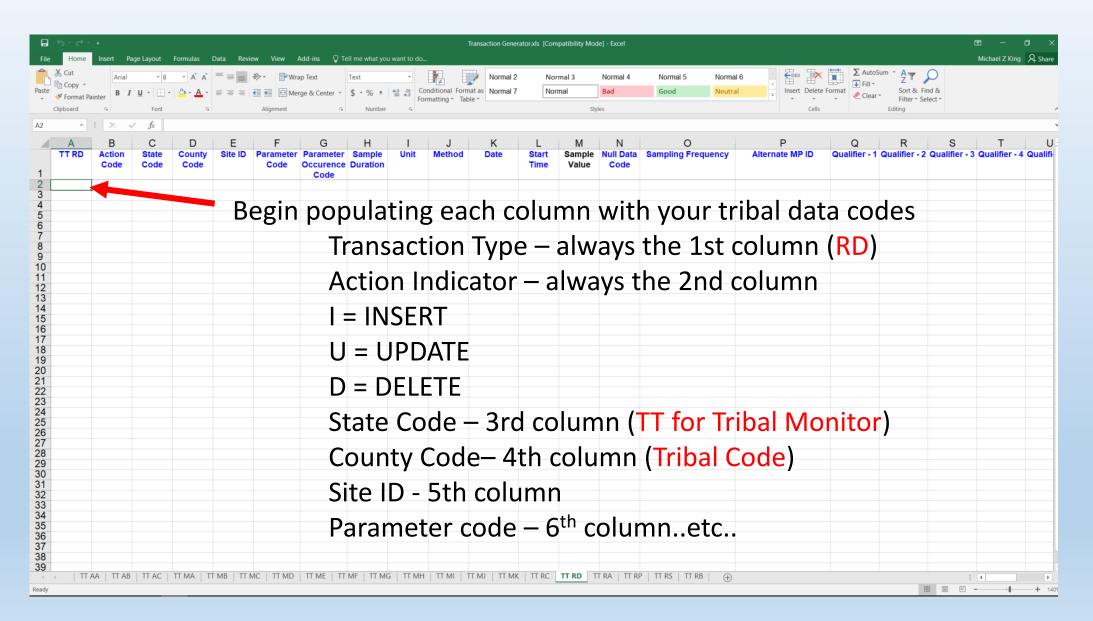
Installation instructions:

You will be prompted to 'Open' or 'Save', select 'Save'. Once the download completes open the folder that you saved the zip file to. Right click on the zip file, at the popup menu select 'Winzip', from there select 'Unzip to here'. After unzipping the installation files launch 'setup.exe' to install the AQS QA Transaction Generator. Click the 'Install' button. The setup program will install a shortcut on your desktop and automatically launch the AQS QA Transaction Generator after the install has completed.

Example SOP for the QA Transaction Generator will be posted to the NAU ITEP webinar training website: <u>http://www7.nau.edu/itep/main/training/</u> <u>Webinars_air2021</u>

Contact Us to ask a question, provide feedback, or report a problem.





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A dialog box will then pop-up informing of the number of transactions created and saved

(Ex. 45 Transactions Generated)

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RD I TT 577 1011 88501 3 1 105 170 20181011 1:00 7	
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RD I TT 577 1011 88501 3 1 105 170 20181011 7:00 6	
RD I TT 577 1011 88501 3 1 105 170 20181011 8:00 4 RD I TT 577 1011 88501 3 1 105 170 20181011 9:00 4	
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RD I TT 577 1011 88501 3 1 105 170 20181011 16:00 6	
RD I TT 577 1011 88501 3 1 105 170 20181011 17:00 6	
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RD I TT 577 1011 88501 3 1 105 170 20181011 19:00 8	
RD I TT 577 1011 88501 3 1 105 170 20181011 20:00 6	
RD I TT 577 1011 88501 3 1 105 170 20181011 21:00 6	
RD I TT 577 1011 88501 3 1 105 170 20181011 22:00 7	
RD I TT 577 1011 88501 3 1 105 170 20181011 23:00 8	
	×.
	::

Open up the Pipe-Delimited Text File...AQS Ready File

Poll Question 4





- What current software do you use to format your data for AQS upload?
 - \circ AirVision
 - o EDAS
 - Tribal DataTool Box
 - \circ Other
 - \circ None

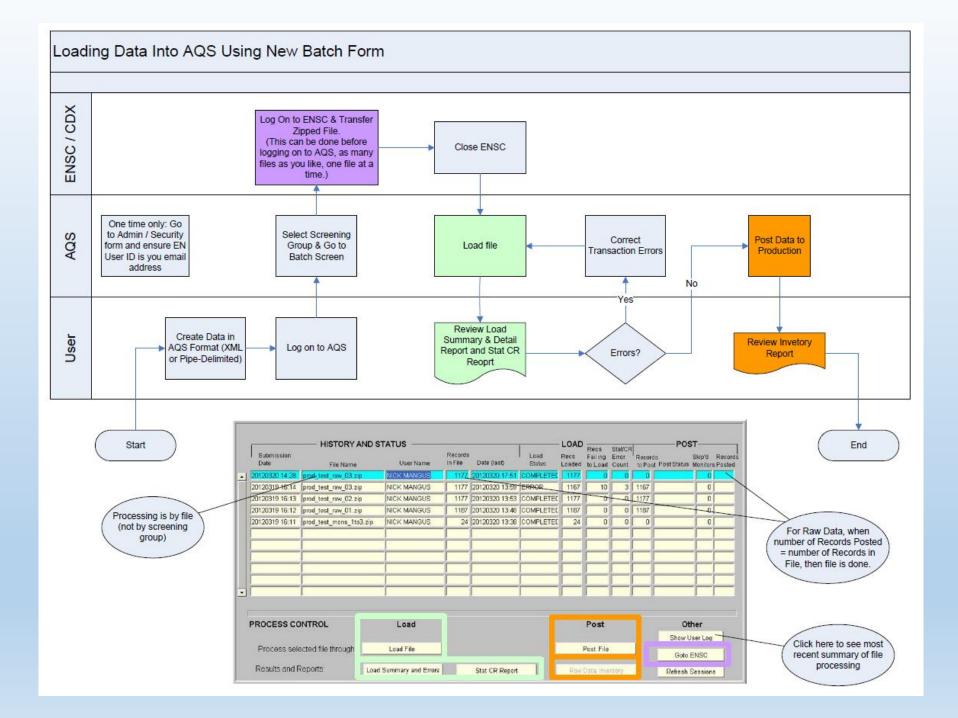
Poll Question 5



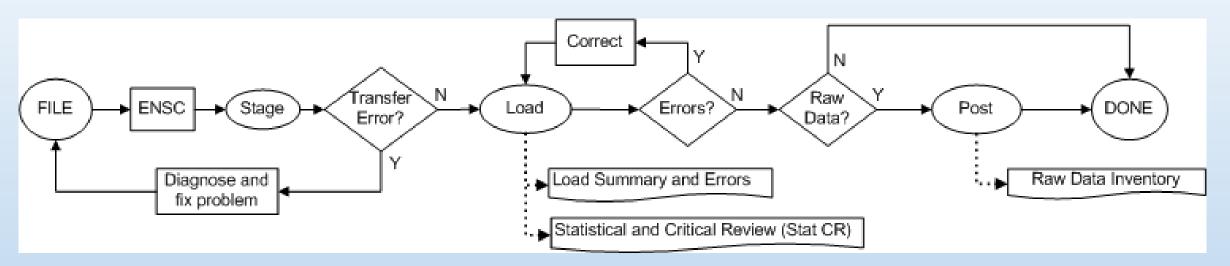


- Did you find the Transaction Generator useful?
 - o Yes
 - 0 **No**
 - I already have software that formats my data for AQS upload

Batch Data Submission (Loading Data to AQS)



Batch Data Submission Process

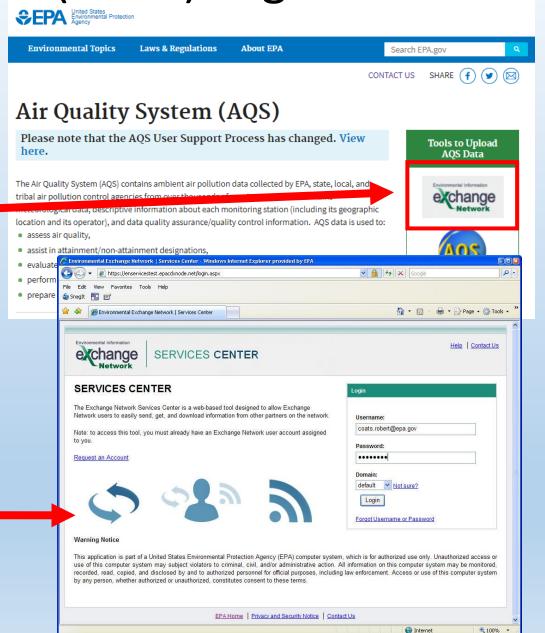


- ENSC: User uploads Data File to ENSC and enters AQS Access Information and Processing Options
- Automatic: File is submitted by ENSC to AQS with user information
- AQS:
 - \odot User monitors status & records process
 - \odot Correct any Errors
 - O Submit /resubmit remaining processing steps

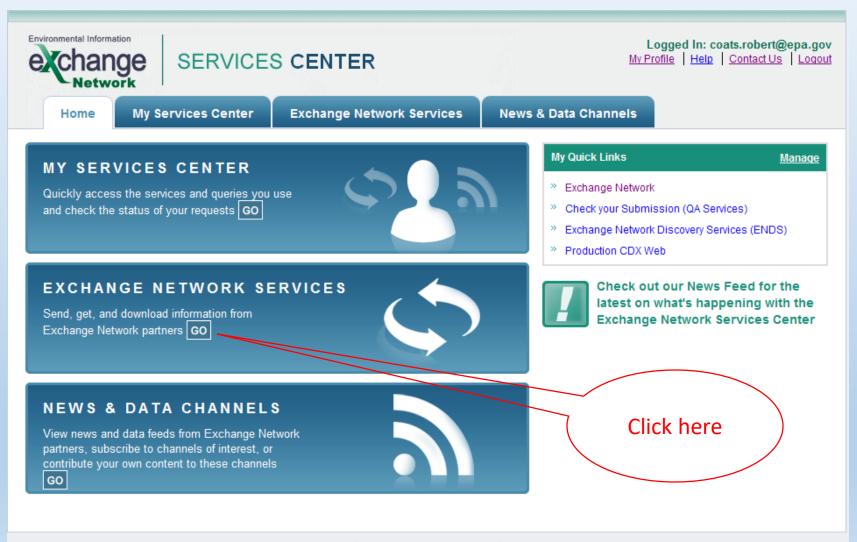
Understanding Batch Submission Video

Exchange Network Service Center (ENSC) Login

- Go to the AQS database website: <u>https://www.epa.gov/aqs</u>
- Click on "Environmental Information" Exchange Network" button
- You will need to access ENSC to load/post data to AQS
- Username = Your email address
- Password: Your selected password

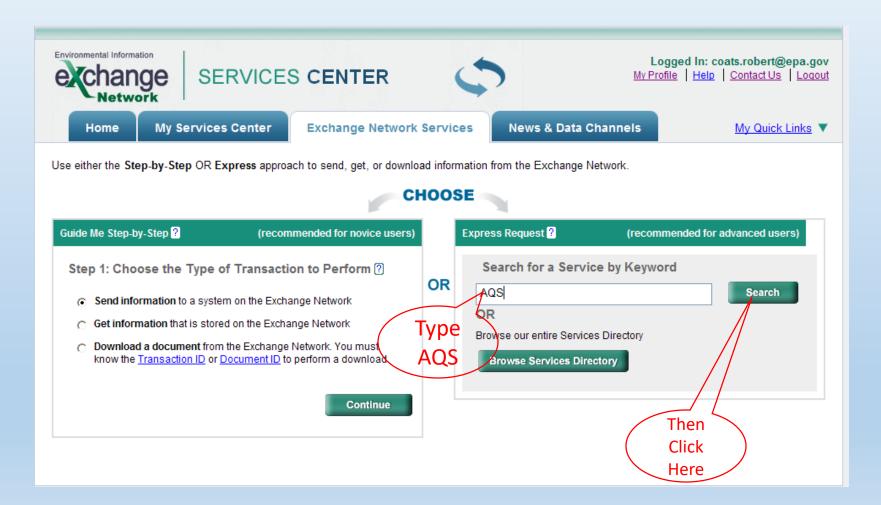


Initial ENSC Home Page



EPA Home Privacy and Security Notice Contact Us

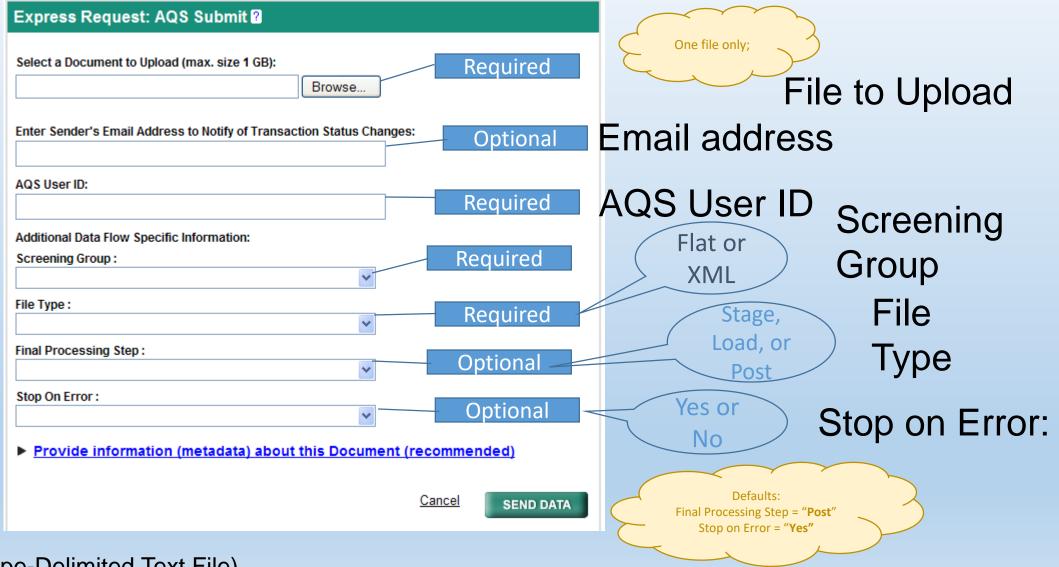
First-Time ENSC Login - AQS Selection



First-Time ENSC Login - AQS Selection

		Home	My Service	s Center Exchange	Network Services Network	ws & Data Cl	hannels	My Quick Links
							. ∎ <u>Add this pa</u>	ge to My Quick Links
		Services	Directory	· ?				
			on, the Services		NDS) metadata. It requires the c ces that support Submit, Query, s			
		Filter By: Keyw	ord(s) 💌	AQS	Filter Clear			
		1 - 4 of 4			< Previous 1 Next >			
		<u>Service</u> <u>Transaction</u>	<u>Dataflow</u>	Service Name	Service Description		<u>Node</u>	<u>Service</u> <u>Provider</u>
		<u>Get Info</u>	AQDE	AQDERawData	Queries or Solicits the Raw Dat AQDE Flow. The return is an XI conforms to the AQS Version 2	VL file that	NewJerseyNodeV1_Prod	NJDEP
\frown	/	Send Info	AQS	AQS Submit	Air Quality System Document \$	Submissions	NGNProd2.0	U.S. Environmental Protection Agency
Click 🔨		Get Info	AQS	DNR.AQSSubmitRawData	DNR.AQSSubmitRawData		WDNRnode2	Wisconsin DNR
Here		<u>Get Info</u>	FRS	DNR.AQSSubmitRawData	DNR.AQSSubmitRawData		WDNRnode2UAT	Wisconsin DNR

ENSC Upload Form



Flat (Pipe-Delimited Text File)

Submit Acknowledgement

Request Received!

Your File AQS_Sample_Blanks_v2.2.zip has been received.

The following Transaction ID has been assigned to this request:

_78f81539-6c17-47e7-81c8-ec209d80b9fc

Current Status of Request:

Transaction Status	Service Name	Transaction Type	Date
Processing	AQS Submit	Send Information	3/21/2012 2:59 PM

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



ENSC Status Page

My Services	My EPA A	ctivity My Channels			. <u>Add</u>	this page to My Quick Links
	my Start page					
Filter By:	Status	▼ All ▼ Filter Clear				
1 - 5 of 5		< Previous 1	Next >			C Refresh Activity
<u>Service</u> <u>Name</u>	<u>Dataflow</u> <u>Name</u>	Transaction Status	<u>Transaction</u> <u>Type</u>	<u>Date</u>	<u>Transaction</u> ID	Documents
AQS Submit	AQS	COMPLETED: Number of data rows successfully staged: 24. Number of rows that failed to stage: None. Number of transactions successfully loaded: 0. Number of transactions with Load error: 24.		8/8/2014 10:35:02 AM	<u>daccf978-d879-</u> 4533-b950- f51ccf3fc80b	Ex2_3_T79.txt.zip
AQS Submit	AQS	COMPLETED: Number of data rows successfully staged: 33. Number of rows that failed to stage: None. Number of transactions successfully loaded: 9. Number of transactions with Load error: 24.			<u>_c688c6bb-e2f1-</u> <u>4f91-8395-</u> <u>6c1a8824f92e</u>	Ex2_2_T79.txt.zip
AQS Submit	AQS	COMPLETED: Number of data rows successfully staged: 33. Number of rows that failed to stage: None. Number of transactions successfully loaded: 0. Number of transactions with Load error: 33.			<u>_86aeaf51-bbf7- 46a4-90ae- 428ce3b79dfe</u>	AQS_Load_Reports.zip
AQS Submit	AQS	COMPLETED: Number of data rows successfully staged: 24. Number of rows that failed to stage: None. Number of transactions successfully loaded: 0. Number of transactions with Load error: 24.			<u>_76842965-</u> <u>4315-4d1e-a275-</u> <u>a04eb28b0c12</u>	AQS_Load_Reports.zip
AQS	AQS	COMPLETED: Number of data rows successfully	Send Info	8/8/2014	67dbbbed-	AQS_Load_Reports.zip

ENSC Download Page

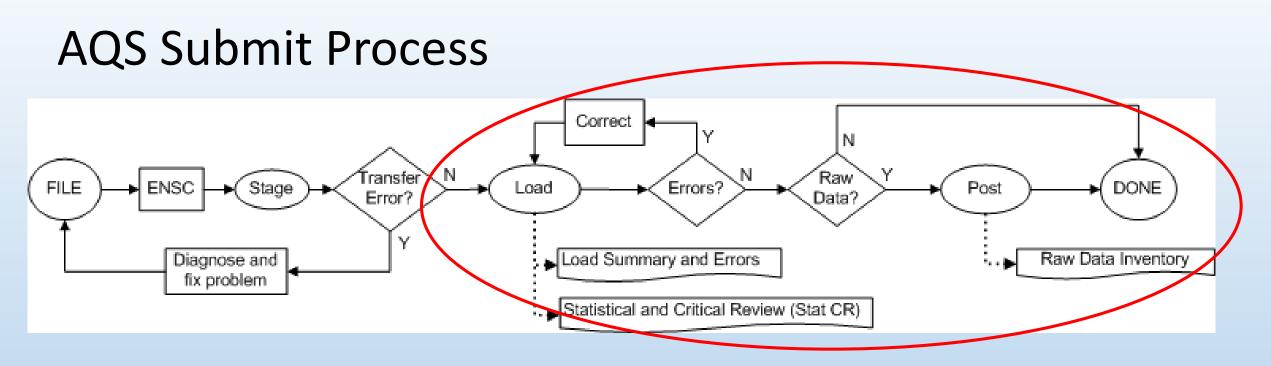
Transaction Details

Transaction ID:	_78f81539-6c17-47e7-81c8-ec209d80b9fc	
Transaction Status:	COMPLETED	
Date:	3/21/2012 2:59:26 PM	
Service Name:	AQS Submit	
Message:	Number of transactions processed successfully: 882. Number of transactions rejected with error: None.	
DataFlow:	AQS	
Transaction Type:	Submit	
Approved Count:	0	
Recipients:		
Return to My Activity	Documents Associated with this Transaction: AQS Load Reports.zip View Details ValidationResults.xml View Details AQS Sample Blanks v2.2.zip View Details	

Second-time ENSC Login – AQS is Selected

Environmental Information Ecchange Network	SERVICES CENTER	2 8		n: coats.robert@epa.gov lelp Contact Us Logout
Home My Ser	vices Center Exchange Network S	ervices News & Data Char	nels	My Quick Links 🔻
My Services My EPA A	ctivity My Channels		(/	Added to My Quick Links)
✓ Make this my Start page	>			
My Services 🛙	Access services you have used before. Use a	<u>New Service</u>		
All Send Info G	et Info Download My Queries			
Find a Service:	My Services C Servi	vices Directory Find		
Service Name	Service Description	Publisher	<u>RSS-</u> enabled	Last Used
<u>NGNTest2.0/AQS/AQS</u> <u>Submit</u>	AQS Submit: Send files to the Air Quality System (AQS).	U.S. Environmental Protection Agency	No	3/21/2012 2:59:25 PM

Submitting Data to AQS through ENSC Video



 After a File has been submitted by ENSC to AQS you can then go into AQS to:

- Correct any Errors
- Submit /resubmit remaining processing steps (LOAD and POST)

AQS Batch Form Overview

AQS Batch Form (Process by File Tab)

			TATUS				L·	OAD—		P(ost—	
	Submission Date	File Name	User Name	Records In File	Date (last)	Process Status	Recs Loaded	Recs Failing to Load		Records to Post	Skip'd	Record: Posted
1	20120502 10:44	Del_Raw_XML.zip	ROBERT COATS	939	20120502 10:45	CRST-COMPLETED	939	0	191	939	0	
		Ins_PA.zip	ROBERT COATS	_	20120502 10:42	STAGE-COMPLETE						
	20120502 10:30	Ins_Raw.zip	ROBERT COATS			POST-COMPLETED	939	12	12	939		939
	20120502 10:07	ONLINE_RCG_779491	ROBERT COATS	- (20120502 10:07	STAGE-COMPLETE						
	20120222 12:42	do_nothing.zip	ROBERT COATS		20120222 12:42	STAGE-ERROR					<u> </u>	
				<u> </u>							<u> </u>	
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	PROCESS CO	NTROL	Load				Post			_		a
			Load				Post Post File	1	1	Show	v User Lo	<u> </u>
	Process sele	ected file through:						9		Show		
		ected file through:			Stat CR Report					Show Got	v User Lo	
	Process sele	ected file through:	Load File		Stat CR Report		Post File]	Show Got	v User Lo to ENSC	
Γ	Process sele	ected file through: Reports:Load	Load File		Stat CR Report		Post File]	Show Got	v User Lo to ENSC	
	Process sele	ected file through: Reports:Load	Load File		Stat CR Report		Post File]	Show Got	v User Lo to ENSC	
Γ	Process sele	ected file through: Reports:Load	Load File		Stat CR Report		Post File]	Show Got	v User Lo to ENSC	
	Process sele	ected file through: Reports: .OW	Load File		Correct	Raw Y N Raw	Post File	entory]	Show Got Refres	v User Lo to ENSC	
Γ	Process sele	ected file through: Reports:Load	Load File	N •(Correct	Raw	Post File]] (Show Got	v User Lo to ENSC	
	Process sele	ected file through: Reports: .OW	Load File	N •(Correct	Raw Frrors? N Raw Data?	Post File	entory		Show Got Refres	v User Lo to ENSC	

Batch Form Fields

- Submission Date: Date-time file received by AQS
- File Name: Name of file uploaded by user
- User Name: User who *last* processed file in AQS
- Records In File: Count of transactions received by AQS
- Process Status: Last process executed and its status
- Date that last process executed
- Records Loaded: Successfully loaded transactions
- Recs Failing to Load: Number of transactions with errors.
- Stat/CR Finding Count: Number of Statistical results + number of Critical Review results
- Records to Post: Count of Raw Data records ready to post
- Skipped Monitors: Number of monitors being modified by another user
- Records Posted: Count of Raw Data transactions posted to production

Batch Form Notes

- Each row on form shows processing status of single file (trace processing left-to-right)
- Blank columns mean either process has not been run yet or not appropriate to data (e.g. Post not valid for some transactions)
- Load button will run both old Load and Stat/CR
- Post button will run Load, Stat/Cr, and Post
- All reports created when processing job executes → their results will be available for 15 days
- Count columns are cumulative: i.e. if 10 records are processed successfully the first time load is run for file and 10 the second time, then Recs Loaded will be 20
- Records created in "Correct" forms will show up with filename of "ONLINE_"+user+number
- Warning: While reports are running, no indication on form. Do not click Load or Post button until prior submission complete (Look at email or user log to check!)

AQS Batch Form (History Tab)

Form shows each individual execution and its results

0140805 15:27:11LOADCHRIS CHAPMANRAW_DATA_LOAD.txtERROR00140805 15:04:53LOADCHRIS CHAPMANQA_DATA_LOAD.txtERROR11120140805 15:03:59LOADCHRIS CHAPMANQA_DATA_LOAD.txtERROR01120140805 14:44:08LOADCHRIS CHAPMANRAW_DATA_LOAD.txtERROR01120140805 14:44:07STAGECHRIS CHAPMANRAW_DATA_LOAD.txtERROR01120140805 14:44:07STAGECHRIS CHAPMANRAW_DATA_LOAD.txtCOMPLETED51120140805 14:43:41LOADCHRIS CHAPMANQA_DATA_LOAD.txtERROR0112			PROCESS	HISTORY			
20140805 15:04:53 LOAD CHRIS CHAPMAN QA_DATA_LOAD.txt ERROR 1 12 20140805 15:03:59 LOAD CHRIS CHAPMAN QA_DATA_LOAD.txt ERROR 0 12 20140805 15:03:59 LOAD CHRIS CHAPMAN QA_DATA_LOAD.txt ERROR 0 12 20140805 14:44:08 LOAD CHRIS CHAPMAN RAW_DATA_LOAD.txt ERROR 0 12 20140805 14:44:07 STAGE CHRIS CHAPMAN RAW_DATA_LOAD.txt COMPLETED 5 12 20140805 14:43:41 LOAD CHRIS CHAPMAN QA_DATA_LOAD.txt ERROR 0 12	Session Date	Job Type	User Name	File Name	File Status		Failed Transactions
20140805 15:03:59 LOAD CHRIS CHAPMAN QA_DATA_LOAD.txt ERROR 0 11 20140805 14:44:08 LOAD CHRIS CHAPMAN QA_DATA_LOAD.txt ERROR 0 11 20140805 14:44:08 LOAD CHRIS CHAPMAN RAW_DATA_LOAD.txt ERROR 0 1 20140805 14:44:07 STAGE CHRIS CHAPMAN RAW_DATA_LOAD.txt COMPLETED 5 1 20140805 14:43:41 LOAD CHRIS CHAPMAN QA_DATA_LOAD.txt ERROR 0 11	20140805 15:27:11	LOAD	CHRIS CHAPMAN	RAW_DATA_LOAD.txt	ERROR	0	5
20140805 14:44:08 LOAD CHRIS CHAPMAN RAW_DATA_LOAD.txt ERROR 0 0 20140805 14:44:07 STAGE CHRIS CHAPMAN RAW_DATA_LOAD.txt COMPLETED 5 5 20140805 14:43:41 LOAD CHRIS CHAPMAN QA_DATA_LOAD.txt ERROR 0 12	20140805 15:04:53	LOAD	CHRIS CHAPMAN	QA_DATA_LOAD.txt	ERROR	1	127
20140805 14:44:07 STAGE CHRIS CHAPMAN RAW_DATA_LOAD.txt COMPLETED 5 20140805 14:43:41 LOAD CHRIS CHAPMAN QA_DATA_LOAD.txt ERROR 0 12	20140805 15:03:59	LOAD	CHRIS CHAPMAN	QA_DATA_LOAD.txt	ERROR	0	128
20140805 14:43:41 LOAD CHRIS CHAPMAN QA_DATA_LOAD.txt ERROR 0 12	20140805 14:44:08	LOAD	CHRIS CHAPMAN	RAW_DATA_LOAD.txt	ERROR	0	5
	20140805 14:44:07	STAGE	CHRIS CHAPMAN	RAW_DATA_LOAD.txt	COMPLETED	5	0
N140805 14:43:39 STAGE CHRIS CHAPMAN QA_DATA_LOAD.txt COMPLETED 128 Image: Stage intermediation of the state of	0140805 14:43:41	LOAD		QA_DATA_LOAD.txt	ERROR	0	128
Image: section of the section of th	0140805 14:43:39	STAGE	CHRIS CHAPMAN	QA_DATA_LOAD.txt	COMPLETED	128	0
Historical reports: Load Summary and Errors Stat CR Report Raw Data Inventory Re Run Reports Rerun Load Summary and Errors Rerun Stat CR Report Rerun Raw Data Inventory		_					

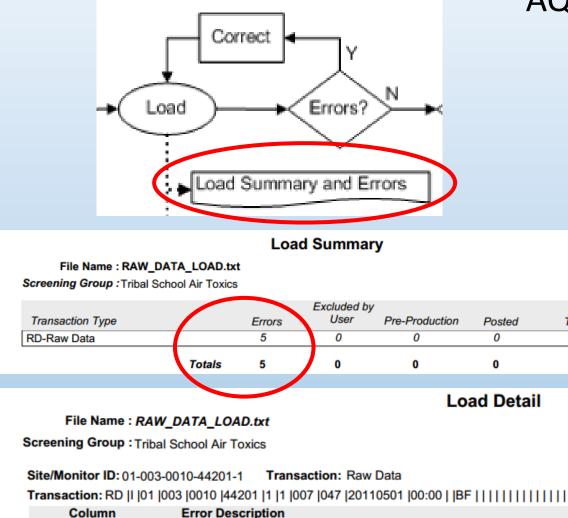
AQS Batch Form Overview Video

Correcting Data in AQS (Correct Function)

Correct Process

- AQS CORRECT is a Type of On-Line Editor That Works Against the "Staging Tables"
- Staging Tables are in the format of the Pipe-Delimited Transactions and are NOT the "Real" Table
- An Error Prevents Data From Getting to the "Real" Table
- There are two "Flavors" of correct forms
 - Older ones that correct raw data and non-QA transactions
 - Newer QA Transaction correct forms

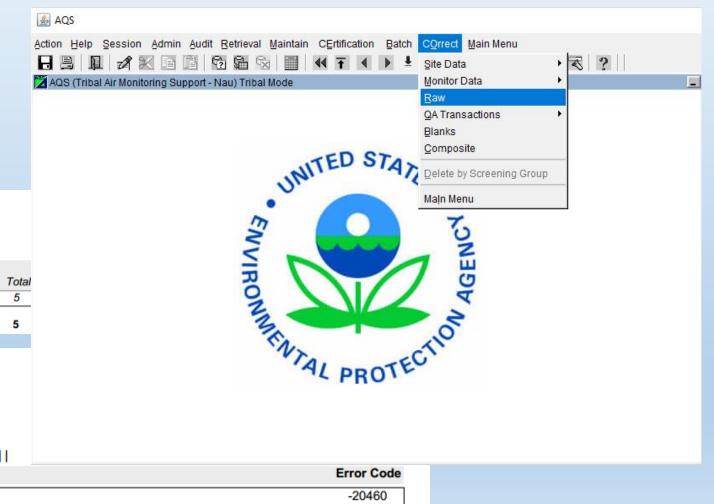
Batch Load: Error Process



Screening group of user does not equal screening group of Monitor.

Multiple Columns

AQS Batch Data Input Flow Sheet



Batch load: Using Correct Forms (Old Way)

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	01	003	0010	44201	1		20140	selection you must put in	01:00	0.032			
	01	003		44201	1		20140	selection values before the	04:00	<u> </u>			
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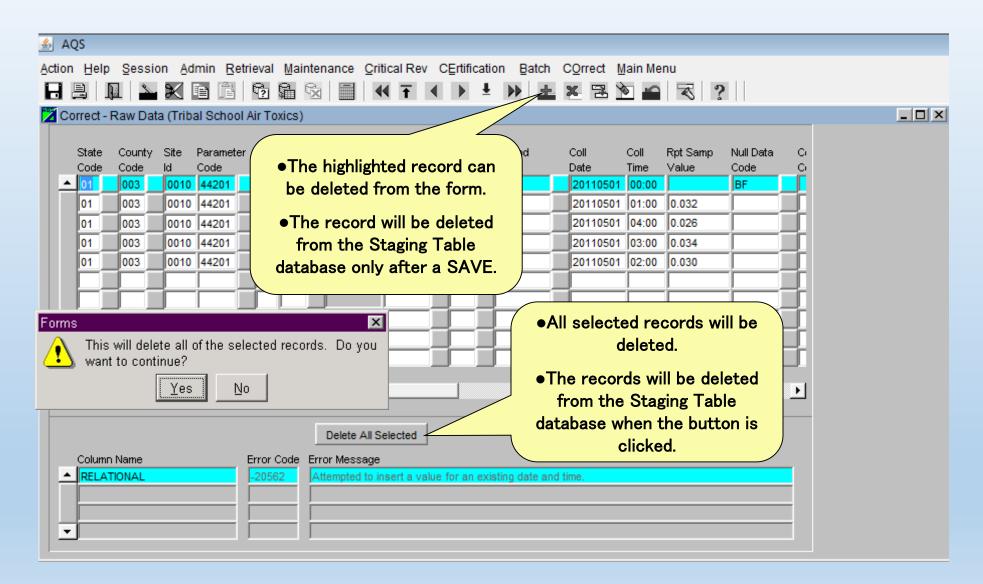
Batch load: Using Correct Forms (Old Way)

🚣 AQS											
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🞽 Correct - Raw Data (Tribal Schoo	l Air Toxics)										
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run a report.							,	·		_	
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informative.	$\land \land \vdash$										
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Batch load: Using Correct Forms (Old Way)

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Batch load: Using Correct Forms to Delete Data

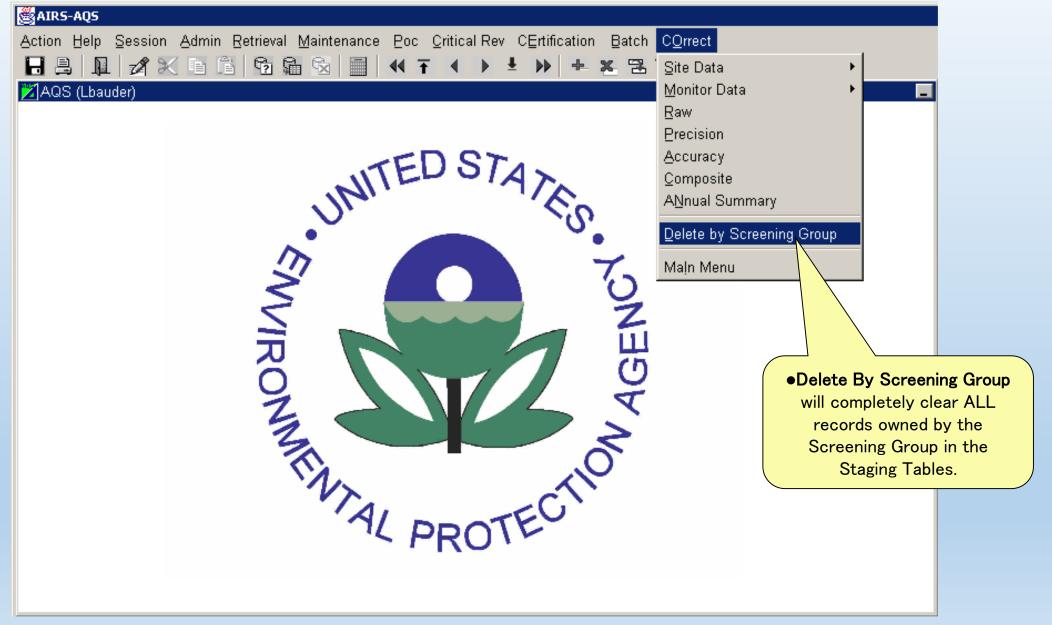


Search & Replace

- Not "Search & Replace" as you may know it!
- Replaces ALL Queried Values in a given column Regardless of the "Current Value"

🛃 AQS	
Action Help Session A	Admin Retrieval Maintenance Critical Rev CErtification Batch COrrect Main Menu
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Search and Replace	
Search and Replac	
	Search &
Replace Item	
Current Value	
New Value	
Replace All	Replace Cancel Cancel

Delete by Screening Group

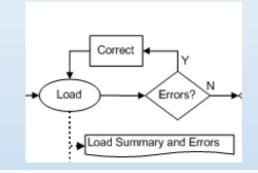


Batch Load: Correct Process (New Way)

📥 AQS

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AQS Batch Data Input Flow Sheet



Load Summary

File Name : QA_DATA_LOAD.txt Screening Group : Tribal School Air Toxics

			Excluded by	y		
Transaction Type		Errors	User	Pre-Production	Posted	Total
QA-Quality Assurance		128	0	0	0	128
	Totals	128	0	0	0	128

Load Detail

File Name : QA DATA LOAD.txt

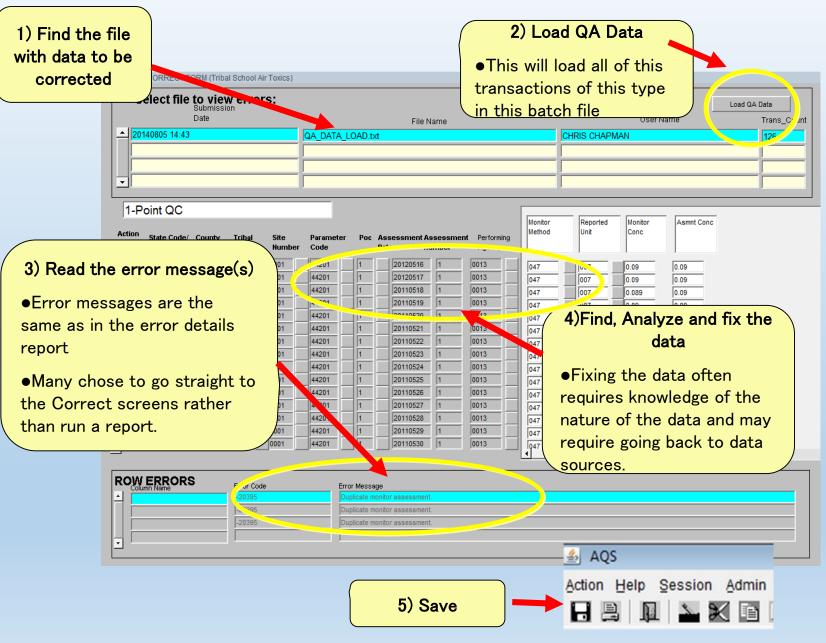
Screening Group : Tribal School Air Toxics

Site/Monitor ID: 01-003-0010-44201-1 Transaction: Quality Assurance

Column	Error Description	Error Code
	Duplicate monitor assessment.	-20395



Batch load: Using Correct Forms



Correct Features

- New transactions may be entered using Correct forms
- After making changes/additions on Correct screen, SAVE changes
- "Delete All Selected" button will delete according to "Execute Query" selection criteria for the form; it will ignore subsequent changes.
- Can use "Delete by screening group" to completely eliminate all records in staging tables for your screening group

Be sure this is what you want to do. It works quickly and it deletes **EVERYTHING** for the screening group, including data entered by other users in your screening group.

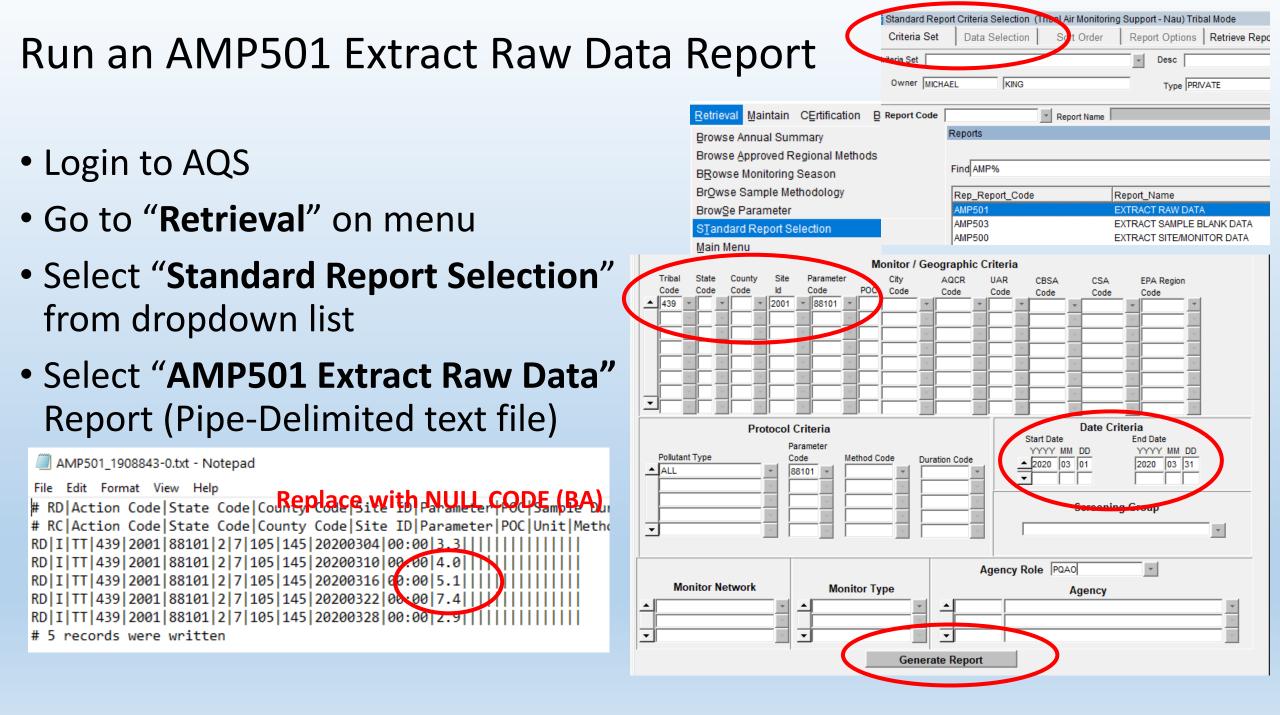
Re Load (or Re-Post) the Data

Once Data is Corrected

 Load data, Recheck for errors, Correct residual errors, Repeat until no errors occur

	—— HISTORY AND :	STATUS ———					— L	.OAD — Recs	Stat/CR	P	ost—	
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20140805 14:43	QA_DATA_LOAD.txt	CHRIS CHAPMAN	128	20140805 15:04	LOAD-ERROR		1	127			\square	
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				Correct		N						
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		Stage Transfe		Load	Errors? N Rav Data		(→(Post		DONE		
	\downarrow			Load Summar	Data Data		′ →(Post				

Correcting Data Externally



1.) Open Transaction Generator and select the TT RD (Raw Data) tab sheet

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2.) Select Data and From Text.	Find what: III Find Next Replace with: IUI Replace Match case Cancel					
14 4th Quarter PM2 15 Fundamentals of 16 Methane Emission 17 Shiprock Methan 18 Shiprock Methan 19 Microsoft Excel 20 My Passport (D:)	Alternatively , you can use Notepad "Find & Replace" to update "U" the Action Indicator and					
23 Constrained and the second and th	CORRECT minor errors, then load text file back to AQS					
31 32 33 4 <th>Works okay with small data sets but large data sets can get tricky so we won't talk too much about this</th>	Works okay with small data sets but large data sets can get tricky so we won't talk too much about this					

4.) Select delimiter and type pipe symbol (|) in the box for **Other**

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5.) Next, select **YMD** for the date column (e.g. 20181010), and select **Text** for the method, unit and hour columns.

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The text file should now be imported successfully into the Transaction Generator.

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2	RD	I	TT	439	2001	88101	2	7	105	145	20200304	00:00	3.3	
3	RD	1	TT	439	2001	88101	2	7	105	145	20200310	00:00	4.0	
4	RD	L	TT	439	2001	88101	2	7	105	145	20200316	00:00	5.1	
5	RD	I	TT	439	2001	88101	2	7	105	145	20200322	00:00	7.4	
6	RD	I.	TT	439	2001	88101	2	7	105	145	20200328	00:00	2.9	

1.) Remove Action Indicator "I" for insert and replace with "D" for DELETE.
2.) Highlight rows and go to Add-ins then Generate an AQS Ready Pipe-Delimited text file with Action Indicator "D"

3.) Upload this file to AQS to remove existing data with ERRORS

TT RD transactions from Mar 25 2021 03-55-06 PM .txt - Notepad

File Edit Format View Help

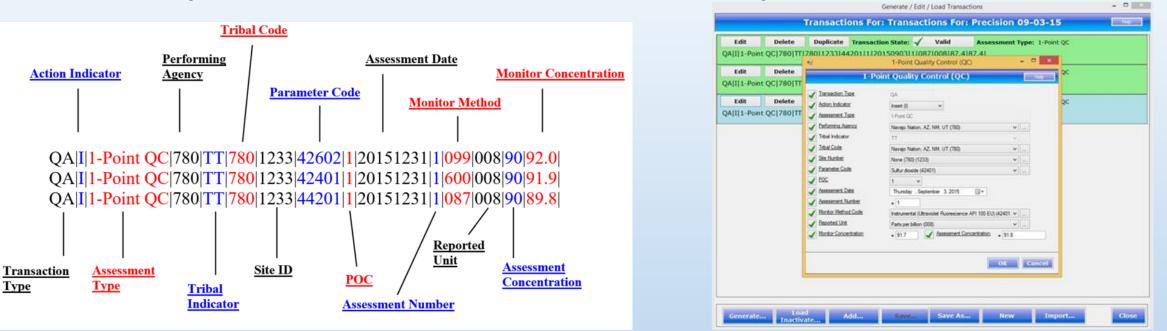
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3	RD	D	ТТ	439	2001	88101	2	7	105	145	20200310	00:00	4.0
4	RD	D	ТТ	439	2001	88101	2	7	105	145	20200316	00:00	5.1
5	RD	D	TT	439	2001	88101	2	7	105	145	20200322	00:00	7.4
6	RD	D	тт	439	2001	88101	2	7	105	145	20200328	00:00	2.9

Use Transaction Generator to **CORRECT** data. After making corrections, update the Action Indicator to "I" for Insert. Highlight all rows with data, select "Add-Ins" in the menu tab and then "Generate Transactions."

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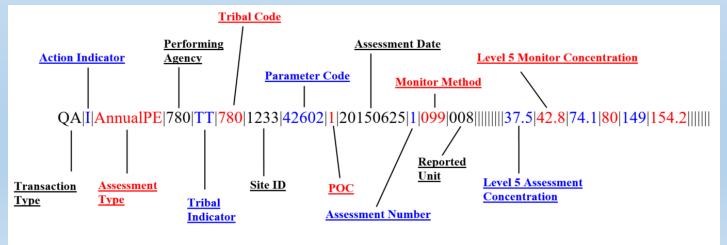
Loading Quality Assurance Data to AQS

Examples of QA Transactions (Pipe-Delimited)



QA 1-Point QC Check on Gaseous Analyzers (NO2, SO2, O3)

QA Annual Performance Audit Results for Gaseous Analyzers (NO2)



	Express Request: AQS Submit 🛿
QA Data Submission Process	Select a Document to Upload (max. size 1 GB): Browse
	Enter Sender's Email Address to Notify of Transaction Status Changes:
Correct Y	AQS User ID:
FILE ENSC Stage Transfer N Load From Errors?	Additional Data Flow Specific Information: Screening Group :
	File Type :
Diagnose and fix problem	Final Processing Step :
Statistical and Critical Rev	Stop On Error :
	Provide information (meta lata) about this Document (recommended)
 Login to ENSC 	Cancel SEND DATA

- QA Data File is submitted by ENSC to AQS as a Staged File
- You will then go into AQS Batch From and Load the QA
 Data File

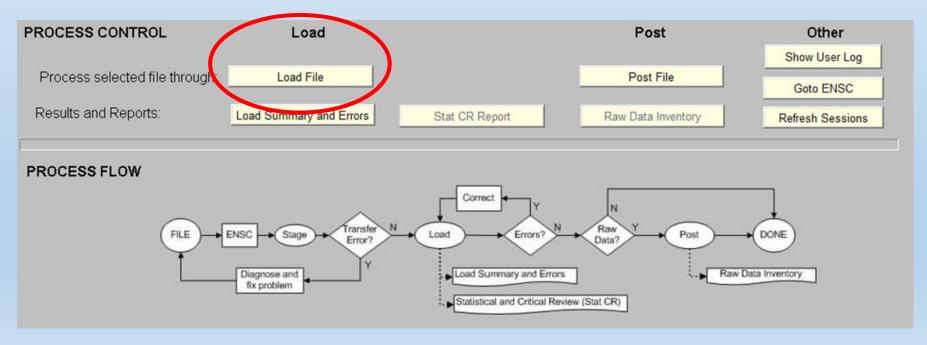
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Load QA Data File in AQS

Batch Form \rightarrow Process Control

- LOAD data is ONLY viewable by the screening group
- Raw Data on the other hand will go to POST
- POST data is viewable by the public

HISTORY AND STATUS											
Submission Date	File Name	User Name	Records In File	Date (last)							
20140805 14:44	RAW_DATA_LOAD.txt	CHRIS CHAPMAN	5	20140805 15:27							
20140805 14:43	QA_DATA_LOAD.txt	CHRIS CHAPMAN	128	20140805 15:04							



Loading Files to AQS Video

Poll Question 6





- So far what do you see as the biggest challenge in your learning of AQS?
 - $\circ~$ Creating a Site and Monitor in AQS
 - How to Format Data for AQS upload
 - Loading Raw Data & QA Data to AQS
 - Correcting Data in AQS
 - No challenges so far...

Resources

AQS Manuals and Guides:



- <u>https://www.epa.gov/aqs/aqs-manuals-and-guides</u>
- AQS Training Videos, e-Learning, Webinars and Other Trainings
- <u>https://aqs.epa.gov/aqsweb/training/Training.html</u>
- NAU ITEP AQS Fast Track Videos
- <u>https://mediaspace.nau.edu/channel/AQS%2BFast%2BTrack/69472942</u> AQS Tribal Q&A Session
- Bi-monthly Q&A for AQS tribal members (Second Wednesday of the month) contact <u>McIntyre.Pamela@epa.gov</u>

Resources



Current AQS User Support Process

- EPA Enterprise IT Service Desk no longer provides AQS support Only password resets & registration
- Users will need to email their Regional AQS contact
 - A. Problem statement with expected results
 - B. Step by step description of what the user did that resulted in issue.
 - C. The actual results received
 - D. Attachments that show the issue, error, and any logs (reports, forms, batch load)

NORTHERN ARIZONA UNIVERSITY







Thank you for joining todays webinar!