

**WQX User Call
February 25, 2021**

There were approximately 36 participants.

Agenda:

- 1) WQX Project Status Report
- 2) Water Quality Portal Project Status Report
- 3) QAQC Reporting Requirements
- 4) Data Analysis and Non-Detects (Dataowners)
- 5) Open Discussion

1) WQX Project Status Report

- Deploy domain enhancement to support National Sample Collection Method using existing schema elements. It will support contexts such as USEPA, USGS, etc. Right now, it is in the Test environment and it will be eventually deployed to Production.
- Deploy Bugfixes WQX/WQX Web: Prevent duplicate metric ids, Comma Separated delimiter files with double quoted (NULLs)
- Reminder Helpdesk email has an Automatic Reply: Confirming Receipt of inquiries. Please follow-up with the help desk if no response is received in 48 hours.
 - Email: WQX@epa.gov or storet@epa.gov, Phone 800-424-9067 Hours: 8 am to 6 pm EST. Please leave message and a return phone number and email address.

2) Water Quality Portal Project Status Report

- a. Known Issues are documented at:
ftp://newftp.epa.gov/storet/wqp/status/Water_Quality_Portal_Open_Tickets.pptx
- b. PENDING performance tuning - Partitioning Tables by year to support Queries by Project ID parameter.

3) QAQC Reporting requirements:

- a. In the QA report there are two options:
 - Option #1 - Show only invalid records
 - Option #2 - Show all records

Please share your preference to [wxq@epa.gov](mailto:wqx@epa.gov) and provide a context as to why you prefer one over the other.

One user preferred to have all records shown and another user suggested records with errors have explicit messages.

The QAQC Reports will be deployed in phases:

1st – Processing documents

2nd – A user can submit a raw CSV file to the end point. It will review the locations and results and determine whether the records are valid or invalid.

3rd – It will be able to served to the WQP with a column appended to data downloads and identify whether locations are valid or invalid.

4) **Data Analysis and Non-Detects (Dataowners)** – Cristina Mullins

Cristina presented a list of non-detect Result Detection Conditions to identify if any of these were synonymous.

Refer to WETRANSFER attachment link: <https://we.tl/t-NGJ9Hmu8Ls>

OR Review webinar documents:

ftp://newftp.epa.gov/storet/xfer/today/WQX_User_Call2021-02-25_nondetects.docx

WQX User Call_nondetects.docx (17.1 KB)

The WQX community was asked to provide feedback on this via the help desk WQX@epa.gov. Cristina is also looking for a chemist to assist her with these values. Anyone interested can also contact the WQX help desk.

Contact info:

Cristina A. Mullin, Ph.D.

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Water Data Integration Branch | OWOW-WRAPD

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5) **Open Discussion**

- WQP Issues should be sent to the [WQX help desk](#).

User should also use the Copy to Clipboard to capture the URL of query parameters when sending an inquiry for query issues. This will also allow user save their query for future use.

- Node Clients

OpenNode2, Node Client Lite are tools used to load data through the Exchange Network. The vendors for these two tools no longer support the products and it is causing issues for some node submitters. The Exchange Network recommends the ENSC and we are making sure the WQX 3.0 is available via this service. WQX schema version 2.2 and 3.0 may not be available.

- ITRC 2021 Environmental Data Management Best Practices

The ITRC has a 2021 team focusing on Environmental best practices. They are currently setting direction for work products. Biological data managers are unrepresented in this effort. If interested, please check it out.

<https://www.itrcweb.org/Team/Public?teamID=90>

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Cristina – *My main goal is to try to understand/use existing data in the WQP. For context, the main project I am working on now is to develop an R package for water quality assessments and assessing non-detects is a small piece of that larger project. Assessing non-detects itself is a complicated piece of the puzzle though and I hope to learn a lot from the WQX data submitters about how the various domain names should be interpreted for analysis. My secondary goal (though also very important) is to help build a common vocabulary across WQX users so that the data submitted and available via the WQP is more useable (to non-data submitters and data submitter alike) on the outbound side.*

Non-detect questions:

- Which of the “Result Detection Condition (ResultDetectionConditionText)” domain names are synonymous?
- Are the names highlighted the same color below the synonyms?
- Analysis context: How are each of the names below treated when assessing non-detects? For example, is it fine to treat ‘Present Below Quantification Limit’ and ‘Below Detection Limit’ the same way when assessing non-detects?

Name	Description
Above Operating Range	
Below Daily Detection Limit	data that was found less than defined daily detection limits
Below Detection Limit	data that was found less than defined detection limits
Below Long-term Blank-based Dt Limit	data that was found less than defined long-term blank based detection limits
Below Method Detection Limit	data that was found less than defined laboratory method detection limits
Below Reporting Limit	data that was found less than defined laboratory reporting limits
Below Sample-specific Detect Limit	data that was found less than defined sample specific detection limits
Below System Detection Limit	data that was found less than defined system detection limits
Between Inst Detect and Quant Limit	
Detected Not Quantified	data that was found and not quantified within defined laboratory reporting limits or method detection limits
High Moisture	
Not Detected	data was looked for but was not observed/detected within defined laboratory reporting limits or method detection limits
Not Detected at Detection Limit	Not Detected at Detection Limit
Not Detected at Reporting Limit	Not Detected at Reporting Limit
Not Present	data that was looked for but not found and without laboratory reporting limits or method detection limits http://www.abcwua.org/Substances_Not_Found.aspx
Not Reported	data was collected but not analyzed. (data has not been quantified)
Present Above Quantification Limit	data was found greater than defined laboratory reporting limits or method detection limits. typically for colony count and rare occasions where value is above highest calibration curve point concentration.

Present Below Quantification Limit	data was found less than defined laboratory reporting limits or method detection limits
Reported in Raw Data (attached)	
Trace	
Value Decensored	