

**WQX User Call  
July 25, 2019  
12:00 – 1:00 PM EST  
202-991-0477 ID: 4189172**

Webinar: <http://epawebconferencing.acms.com/wqp/>

There were approximately 29 participants.

**Next WQX User Meeting:** Thursday, August 22, 2019

**Agenda:**

- 1) Notification WQX Refresh to Water Quality Portal is running regular now
- 2) How to assign characteristics to the Water Quality Portal's Characteristic Group?
- 3) Demo WQX Web more features available now

**1) Notification WQX Refresh to Water Quality Portal is running regular now**

The WQX refresh to the WQP is now running on a regular cycle. There will no longer be any updates on refresh status from the STORET List Serve. The WQX refresh to WQP occurs twice a week on Wednesday and Saturday early morning. It takes 36 hours for the refresh to complete so data it will be available in WQP on Friday/Monday mornings.

**2) How to assign characteristics to the Water Quality Portal's Characteristic Group?**

The Characteristic Group is a selective (fixed) list to query from in the WQP and can be found under the Sampling Parameters.

**SAMPLING PARAMETERS**

Sample Media:  ?

**Characteristic Group:**  ?

Characteristics:  ?

Project ID:  ?

Parameter Code: (NWIS ONLY)  ?

Minimum results per site:  ?

Date range - from:  to:

Biological sampling parameters: ?

A characteristic can belong to only one group. For example, phosphate only belongs to the Nutrient characteristic group. This functionality will return all the characteristics listed as nutrients reported in WQP for your parameters.

To identify what group a characteristic belongs to users can download the characteristic file. There are two options available to download domain values (characteristics).

- 1) **Domain Value Services:** <https://www.epa.gov/waterdata/storage-and-retrieval-and-water-quality-exchange-domain-services-and-downloads>

- 2) WQX Web

On the Home Page go to *Edit or Download Domain Values*

*Note users have the ability to go directly in the Characteristics and view them as they are registered or download an Excel file of the Characteristics. The arrow next to the Characteristics hyper link will link to a download of the file. (see image below). Column H in the spreadsheet will list the group.*



Subject matter experts can request to have a characteristic listed to a characteristic group. Contact the WQX Team via email at [wqx@epa.gov](mailto:wqx@epa.gov). Please note that all domain values such as Characteristics, Taxons and Group/National Analytical Methods are entered into WQX by the WQX Team.

Domain Values can be accessed two ways client submission tools

2 Ways to review data standards

- Spreadsheet (XLSX) download through WQX Web (Click icon )
- XML directly into a Node Client

### 3) Demo WQX Web more features available now

Kevin picked up from the discussion on June's call by demonstrating the creation of custom import configuration files with custom translations in WQX Web.

Using "Expert Mode" users can build an expression with assistance from the application.

Kevin demonstrated two features to assist users with loading data using translations to read spreadsheets without using the standard WQX Web Templates.

- Generate an Activity ID
- Generate Detection Condition and Limits from Result Value

Expert mode can be found in the Import Configuration File under Options:

The screenshot shows the 'Import Configuration' dialog box with the 'Options' tab selected. The 'Options' tab is circled in red. The dialog contains the following information:

- Type: Results & Activities
- Owner: Pamela Blasdel [Change Owner](#)
- Name: WQX Web Template REGULAR Results
- Description: Physical/Chemical of Activity and Results  
URL: [http://www.epa.gov/storet/wqx/products/WQXWeb\\_Physical\\_Chemical\\_Package.zip](http://www.epa.gov/storet/wqx/products/WQXWeb_Physical_Chemical_Package.zip)
- File Type: Microsoft Excel (xlsx)
- Worksheet(s) to Import: 5th (note: the "1st" worksheet is the left-most tab of the Excel Workbook)
- [View the template that this was based on](#)

The screenshot shows the 'Options' dialog box with a table of configuration options. The 'Generate an Activity ID' and 'Generate Detection Condition and Limits from Result Value' options are highlighted in yellow.

Enabled	Option	Description
<input type="checkbox"/>	Expert Mode (for Configuration)	Enable advanced features for those that have read the user guide and are very comfortable with import configurations. Supports header rows and columns. Provides better support for crosstab formats, such as a file with multiple results per row.
<input type="checkbox"/>	Expert Mode (for Translations)	Allows more complex comparison options and expressions on the translations page
<input type="checkbox"/>	Generate an Activity ID	An Activity ID will be generated from the values provided for Monitoring Location ID, Activity Date, Activity Time, and Activity Type. This is only guaranteed to produce a unique Activity ID if you provide a unique Activity Time for each Activity at a particular Monitoring Location
<input type="checkbox"/>	Generate Detection Condition and Limits from Result Value	Convert Result Values that start with "<" or ">" into an appropriate Detection Condition and Detection Limit Value. For example: a Result Value of "<0.25" would be converted into a Detection Condition of "Present Below Quantification Limit", a Detection Limit Value of "0.25", and a Detection Limit Type of "Lower Quantitation Limit"
<input type="checkbox"/>	Populate Detection Limit Unit from Result Unit	If the value for Detection/Quantitation Limit Unit is blank, and it is required, use the Result Unit

Buttons: OK, Cancel

Kevin also demonstrated Import Configurations that can assist users:

- Adding Project IDs to Existing Activities
  - This feature will add Project IDs to existing Activities (Note, this functionality is available In WQX Web only and will be an official schema in WQX 3.0)
    - Allows users to create project IDs to track budget spending or aggregate the data in a different way
    - Will allow an activity to be associate a with multiple projects
- Update Result Status –
  - Allows the user to update their results data from Preliminary to Final without resubmitting the data.

Import Configurations				
Search		Clear Search Criteria		Add New
ID	Type	Name	Default Organization	Owner
5591	Results & Activities	WQX Web Template REGULAR Results (w/o DataLogger)	WQXTEST	Kevin Christian
5	Activity Group IDs to Delete	Delete Activity Groups (Template)		System
4	Activity IDs to Delete	Delete Activities (Template)		System
3	Index IDs to Delete	Delete Indexes (Template)		System
2	Monitoring Location IDs to Delete	Delete Monitoring Locations (Template)		System
1	Project IDs to Delete	Delete Projects (Template)		System
9	Results & Activities	Add Project ID(s) to existing Activities (Template)		System
10	Results & Activities	Update Result Status (Template)		System
3637	Activity Groups	Import Activity Group (comma sep) (Template)		.Training User Template Owner
3294	Indexes	WQX Web Template BioHabitat INDEX (Template)		.Training User Template Owner
3300	Metrics & Activities	WQX Web Template METRIC Results (Template)		.Training User Template Owner
6726	Monitoring Locations	Import MONITORING LOCATION (NEW Phys/Chem) (Template)		.Training User Template Owner
1118	Monitoring Locations	Import MONITORING LOCATION Spreadsheet XLS (Template)		.Training User Template Owner

Users can reference the user guides for more information.

Quick Reference Guide

<https://www.epa.gov/waterdata/water-quality-exchange-web-template-user-guide>

Full User Guide to WQX Web

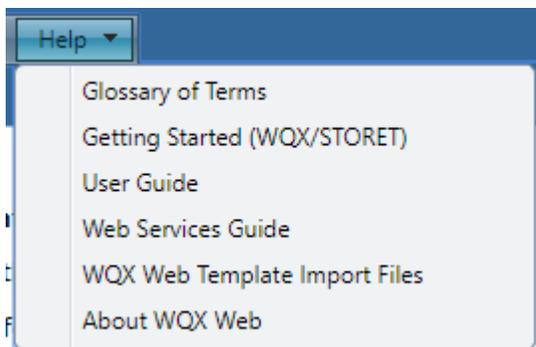
<https://www.epa.gov/waterdata/user-guide-version-210-water-quality-exchange-web>

#### 4) WQX Web API Services

New API services for WQX Web have been developed and will allow users to leverage the functionality of WQX Web by providing an alternative method to publish data to WQX. The services are intended for developers and do not require a CDX account. The services will allow the automation of data submissions through WQX Web. Kevin reminded the group that these are authenticated services that require 256 bit encryption.

More information can be found at: <https://www.epa.gov/waterdata/wqx-web-application-programming-interface>

#### 5) WQX Web Help (available offline)



Glossary of Terms

- <https://cdx.epa.gov/WQXWeb/StaticPages/GlossaryWqx.htm>  
Getting Started (WQX/STORET)
- <https://www.epa.gov/storet/>  
User Guide 2.x
- <https://www.epa.gov/waterdata/user-guide-version-210-water-quality-exchange-web>  
Web Services Guide
- <https://cdx.epa.gov/WQXWeb/StaticPages/WebServicesGuide.htm>  
WQX Web Template Import File
  - <https://www.epa.gov/waterdata/water-quality-exchange-web-template-files>

About WQX Web displays the version release number and can be found via the WQX Web help menu.

**6) System Import Configurations (WQX Web ONLY) – Functional Preview of WQX 3.0 schema**

ID ▲	Type	Name	Default Organization	Owner
1	Project IDs to Delete	<a href="#">Delete Projects (Template)</a>		System
2	Monitoring Location IDs to Delete	<a href="#">Delete Monitoring Locations (Template)</a>		System
3	Index IDs to Delete	<a href="#">Delete Indexes (Template)</a>		System
4	Activity IDs to Delete	<a href="#">Delete Activities (Template)</a>		System
5	Activity Group IDs to Delete	<a href="#">Delete Activity Groups (Template)</a>		System
9	Results & Activities	<a href="#">Add Project ID(s) to existing Activities (Template)</a>		System
10	Results & Activities	<a href="#">Update Result Status (Template)</a>		System

9. Add Project ID(s) to existing Activities (Template)

10. Update Result Status (Template)

Note: Import Access via menu “Import and Submit”, “Activities and Results”

Format spreadsheet as follows:

See attachments / appendix

<b>IMPORT CONFIGURATION REQUIREMENTS</b>
Add Project ID(s) to existing Activities (Template)

<ul style="list-style-type: none"><li>• Mandatory Columns: Activity ID and Project ID</li></ul>
Update Result Status (Template)
<ul style="list-style-type: none"><li>• Mandatory Columns: Activity ID and “Result Status ID”</li></ul>
<ul style="list-style-type: none"><li>• Optional Columns: CharacteristicName and SubjectTaxonomicName</li></ul>