

STORET User Call Minutes

May 25, 2017

12:00 Noon – 1:00 PM EST

Presenters:

Name	Organization
Dwane Young	USEPA OWOW
Britt Dean	USEPA OWOW

Agenda:

Biodata Team (Biological Work Group) Update (Britt Dean):

- Working through various specifics not necessarily included in the current WQX Schema
 - In the current version of WQX, leverage the Characteristic field to incorporate “subsample” and include the method used for the count.
 - Leverage dilution factor to denote the factor of subsample used.
 - Will possibly create a new data element for WQX 3.0 to help specify the subsample ‘count’.
 - A “best practice” guide is in development to assist users when entering their biological data to WQX.
 - Answered a question in regards to the proper metadata usage:
 - Macroinvertebrate is the Assemblage Sampled Name and ‘Count’ is the Characteristic Name.
- USGS BioData Retrieval Taxonomy Tracking
 - Some folks capture the old name... but want to also track the new.
 - Users would like to add more than 1 Taxonomic Name per sample.
 - The STORET Team wants to get more ideas as to how other systems are tracking Taxon’s.
 - USGS is a great example, and STORET would like to have a discussion with the USGS team and the STORET community for their opinion on their organization of Biological data.

If anyone would like to be involved in the discussion, contact Britt (dean.britt@epa.gov) for more information.

WQX Web Template Update (Dwane Young)

A walk through of the changes implemented in the Template

- Got rid of export tab.
- Added definitions tab. Definitions need worked on. They are a combination of DET and STORET warehouse definitions.

- The tabs are still in the same order because we added the definitions tab so the import sheet of the import configuration will not break.
- Project- nothing new.
- Monitoring Locations Tab – added the actual county code. New template import config will ignore column L. It is used only for lookup purposes.
- Activity ID – does not have the button we wanted but example activity ID formulas are on the green tab. They can be copied and pasted in the cells. The button was an issue between Microsoft versions and 32 vs 64 bit versions.
- Added some help pop-ups when you select a cell for turning blue. It tells you how to address the blue notification.
- Activity type value turns blue if the value contains the word “sample”. This also makes the Method ID and context turn blue to demonstrate the rule.
- Data logger line has been removed
- When the result detection condition is provided, the cell turns yellow and so does the result detection limit types, value, and units.
- Drop down lists for Analytical method ID and context now.
- If you type in a characteristic that isn’t in the allowable value list, a pop-up asks if you want to do that.
- Allowable value lists are hidden so there are not so many sheets.
- All allowable value lists have been updated.

New STORET Data Analysis Tool Update (Dwane Young):

- Different, easier to use interface.
- Gave an overview of current progress, it’s capabilities and feedback on its features.

Order of operations:

- Leverage data from the STORET Data Discovery tool.
- Upload data (also from the STORET Data Discovery Tool).
- Associate Monitoring Locations with associated Assessment Units (template available)
- Finally, Load Criteria file (use class, wb type, eco-class, etc.)
- By clicking ‘Run analysis’ button, it gives you a summary of your results based on the criteria set from the files the user loads.
 - Also, additional information is also given including statistics and result counts associated with the data.
 - Maps the user’s data. More data = larger ‘dot’ on the map.
 - Exceedances vs. sample bar graph.
 - Sample frequency. Changes color when an exceedance is encountered.

- Finally, a Time Series Chart is also included in the analysis.
- Working on a trend analysis that gives Individual trend analysis across all stations a user loads into the Tool.
- Hope to have a preliminary release next month (June, 2017)

Reviewed a list of items the STORET team would like to Data Analysis tool to do:

	Requirement	Relative LOE	Priority	Iteration								
	Additional Analysis options. <table border="1"> <tr> <td>a.</td> <td>Rolling average.</td> </tr> <tr> <td>b.</td> <td>90th percentile (Statistical Threshold Value (e.g. not exceeded >10% of samples).</td> </tr> <tr> <td>c.</td> <td>Exceedences during a particular season (i.e. Recreation Season)</td> </tr> </table>	a.	Rolling average.	b.	90 th percentile (Statistical Threshold Value (e.g. not exceeded >10% of samples).	c.	Exceedences during a particular season (i.e. Recreation Season)		High	2		
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	Tables. Always round to the hundredths place.		High	2								
	Media and/or Sample Fraction. This would allow for different criteria to be applied to total vs dissolved sample fraction and/or different media types (for ex. water, sediment). (Requires new column in Criteria table)		High	2								
	Charting. <table border="1"> <tr> <td>a.</td> <td>Re-work Text above the Chart (Less wordy).</td> </tr> <tr> <td>b.</td> <td>Add ability to download Sampling Frequency Chart.</td> </tr> </table>	a.	Re-work Text above the Chart (Less wordy).	b.	Add ability to download Sampling Frequency Chart.		High	2				
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	Station Summary. <table border="1"> <tr> <td>a.</td> <td>Gray out if User has not selected a station.</td> </tr> <tr> <td>b.</td> <td>Change the first paragraph of the station summary panel it is too wordy - maybe a table or list of summaries.</td> </tr> <tr> <td>c.</td> <td>Add legend to frequency dot chart.</td> </tr> <tr> <td>d.</td> <td>Add Toggle for Grouped vs. Ungrouped Stations. If stations are grouped, it's hard to select one.</td> </tr> </table>	a.	Gray out if User has not selected a station.	b.	Change the first paragraph of the station summary panel it is too wordy - maybe a table or list of summaries.	c.	Add legend to frequency dot chart.	d.	Add Toggle for Grouped vs. Ungrouped Stations. If stations are grouped, it's hard to select one.		High	2
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d.	Add Toggle for Grouped vs. Ungrouped Stations. If stations are grouped, it's hard to select one.											
	Map Filters. Add additional filters to the panel below the Map.		High	2								
	Executable Package format (Similar to Data Discovery Tool). Package the tool so it can be launched from an exe file.		High	2								
	Run Analysis. <table border="1"> <tr> <td>a.</td> <td>Communicate to the User the need to click the "Run Analysis" button and perhaps add a progress bar.</td> </tr> </table>	a.	Communicate to the User the need to click the "Run Analysis" button and perhaps add a progress bar.		Med	2						
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	Upload Data and Display. <table border="1"> <tr> <td>a.</td> <td>Rather than display the raw data tables simply show a summary table and maybe a map of stations</td> </tr> </table>	a.	Rather than display the raw data tables simply show a summary table and maybe a map of stations		Med	2						
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	Add Assessment Unit layer to the map. Use RAD webservice (ATTAINS web-services once available) to display 305(b)/303(d) Assessment Unit layers. (https://www.epa.gov/waterdata/waters-mapping-services)		Med	2								
	Metals Analysis (like ORD tool).		High	Final								

	<p>ATTAINS tie-in. Provide users with the ability to export the data analysis in a format that can accepted by the new ATTAINS data system.</p> <table border="1" data-bbox="250 300 951 373"> <tr> <td data-bbox="250 300 315 373">a.</td> <td data-bbox="319 300 951 373">ATTAINS web-services – AU/Monitoring Stations/Use correlation</td> </tr> </table>	a.	ATTAINS web-services – AU/Monitoring Stations/Use correlation		High	Final
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	<p>Time Component. This would allow for the inclusion of chronic criteria and seasonally specific criteria (requires at least one new column to criteria table).</p>		High	Final		
	<p>Save Information. Provide users with the ability to save criteria and/or Station designated use information for future analysis. Possible option is to allow users to save R file in the program folder.</p>		Med	Final		
	<p>Edit Tables in Tool. Provide users with the ability to edit tables in the tool, then export table with edits.</p>		Low	Final		