



UNRBA Monitoring
Program
PFC Meeting
February 3, 2015



February 3, 2015

Update on the Monitoring Program

October – November 2014 UNRBA Monitoring Data





Monitoring Program Updates

- October Monitoring Data at Lake Loading and Jurisdictional
 - Data Summaries (handouts)
 - QA/QC Review
- DWR monitoring of Falls Lake for the new parameters and additional Station
- UNRBA Database Update
- Special Study Updates

UNRBA Database

February 2015 Update



January Activity Status

- Completed the provisioning of the UNRBA-Water Quality Portal (WQP) Production Web Environment
 - Dedicated web server running Windows 2012 R2, PostgreSQL 9.3.5 and php version 5.6
- Completed testing of php 5.6 changes
- Completed the Lake Loading and Jurisdictional Groups
- Completed the loading of data through November 2014
- Completed database and web interface customizations
- In Process
 - User role modifications
 - Online training materials



Additional Updates


- New database fields added
- Field and Lab EDD templates created
- New layers added to map interface
- Graphs and reports modified on how they handle non-detect result data
- Hyperlinks in report downloads updated
- QA/QC interface revised for handling non-detect data
- Modified annual statistics report averaging



Logging in to UNRBA Database


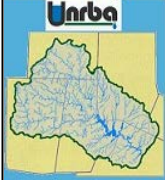
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Water Quality Data Web Portal --- Upper Neuse River Basin Association



Sign in to access data:

Username:

Password:

Don't have an account? [Help](#)
Forgot your username? [Help](#)
Forgot your password? [Help](#)
Change your password? [Help](#)

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Web Map Interface Updates

- Updated Map
- Falls Lake Watershed Layer
- NC County Boundary Layer
- Updated Legend

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Map Click the station to view info

Map Satellite

Map data ©2015 Google 5 km Terms of Use Report a map error

Falls Lake Watershed Layer
 NC County Boundary Layer

Jurisdictional = ● Lake Loading = ● Falls Lake = ●

The following KMZ files can be viewed in Google Earth:
 Stations in KML NC USGS Gage Station in KML

Disclaimer: Although the Upper Neuse River Basin Association (UNRBA) makes every effort to ensure data quality in the water quality monitoring program, data errors do arise and may not be identified at the time the data was uploaded to this database. UNRBA does not assume any liability associated with the use of these data and is not obligated to notify parties of modifications or changes to the database.

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Web Map Interface Updates

- View all sampling stations
- Falls Lake Locations
- Jurisdictional Locations
- Lake Loading Locations
- Updated station description information

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Station: NLR-27, JB04
Stream: North Fork Little River at New Sharon Church Road

Map Satellite

Map

- All Stations
- Falls Lake Locations
- Jurisdictional Locations
- Lake Loading Locations

Sampling Info

- Data
- Reports & Statistics
- Station Info
- How to Get Data

Legend:

- Falls Lake Watershed Layer
- NC County Boundary Layer
- Jurisdictional = [Green Dot]
- Lake Loading = [Blue Dot]
- Falls Lake = [Purple Dot]

The following KMZ files can be viewed in Google Earth:
Stations in KML NC USGS Gage Station in KMZ

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Sampling Information Updated

- Select sampling information by Station, Stream, Subwatershed, and Station Type

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Map +

Sampling Info

Data +

Reports & Statistics +

Station Info

How to Get Data

Use the options to retrieve the **Sampling Related Info**. Data are given in a tabular format to be viewed in the browser or csv format if downloaded.

Select Category: Station Name

Select Station Name: *Choose no more than 5 for Graph and Download.*

All

BDC-2.0 - Beaverdam Creek - at Horseshoe Road

BUC-3.6 - Buckhorn Creek - at Buckhorn Lane

CMP-23 - Camp Creek - at Range Road (SR 1610)

DPC-23 - Deep Creek - at Smith Road

Select Projects: All

High Flow Sampling

Routine Monitoring

Routine Monitorings

Select Labs: All

Environment 1, Inc.

Begin Date: 2014-08-20 📅

End Date: 2014-09-25 📅

Include QA/QC sampling: Yes No

[View and Download](#)

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Sampling Info Updated

- Output modified to only include relevant fields including Station Short Name

UNRBA, Water Quality Data -- Web Portal - Google Chrome

Query Results:
 Watershed: Eno River ;
 Time Period: 2014-08-20 ~ 2014-09-25
 Project: Routine Monitoring;
 Lab: Environment 1, Inc.
 Include QAQC Sampling: yes
 Click table header to sort the data. [Download Data](#)

Project	Lab Name	Station	Short Name	Collection Date and Time	Comp Code	Air Temperature(C)	Flow Severity	Depth(m)	Comments
Routine Monitoring	Environment 1, Inc.	ENR-49	JB01	2014-08-25 11:10:00	G	27	2	0.10	collected on downstream side - upstream too shallow
Routine Monitoring	Environment 1, Inc.	ENR-41	JB02	2014-08-25 11:47:00	G	28	2	0.10	
Routine Monitoring	Environment 1, Inc.	ENR-23	JB03	2014-08-25 12:17:00	G	29	2	0.10	
Routine Monitoring	Environment 1, Inc.	ENR-8.3	LL04	2014-08-26 01:17:00	G	33	2	0.10	
Routine Monitoring	Environment 1, Inc.	ENR-8.3	LL04	2014-09-10 12:15:00	G	29	2	0.10	collected from bank - upstream side
Routine Monitoring	Environment 1, Inc.	ENR-49	JB01	2014-09-16 10:20:00	G	27	2	0.10	
Routine Monitoring	Environment 1, Inc.	ENR-41	JB02	2014-09-16 10:41:00	G	26	2	0.10	
Routine Monitoring	Environment 1, Inc.	ENR-23	JB03	2014-09-16 11:09:00	G	32	2	0.10	
Routine Monitoring	Environment 1, Inc.	ENR-8.3	LL04	2014-09-23 12:56:00	G	21	2	0.10	collected from bank - upstream side



Data Queries by Station and Parameter

- Select sampling information by Station, Stream, Subwatershed, and Station Type

The screenshot shows the UNRBA Water Quality Monitoring website. The page has a navigation bar with links for UNRBA.ORG, About UNRBA, Disclaimer, and Log Out. A sidebar on the left contains menu items: Map, Sampling Info, Data, Query By Station, Query By Parameter, Reports & Statistics, Station Info, and How to Get Data. The main content area is a query form with the following fields:

- Select Category:** Station Name
- Select Station Name:** Choose no more than 5 for Graph and Download. List includes: BDC-2.0 - Beaverdam Creek - at Horseshoe Road, BUC-3.6 - Buckhorn Creek - at Buckhorn Lane, CMP-23 - Camp Creek - at Range Road (SR 1610), DPC-23 - Deep Creek - at Smith Road.
- Select Medium:** Water
- Select Parameter:** List includes: All, Absorbance at 440nm, /cm, Ammonia Nitrogen as N, mg/l, CBOD5, mg/l, Chlorophyll-A, ug/l.
- Select Projects:** List includes: All, High Flow Sampling, Routine Monitoring, Routine Monitorings.
- Begin Date:** 2013-09-25
- End Date:** 2014-09-25
- Visibility Flag:** This option is only available for 'View and Download'. List includes: 3 ~ Quality Controlled, Routine Data including Duplicates, 2 ~ Quality Controlled, Rejected, 1 ~ Quality Controlled, QAQC Sample including Blank, Split etc.

Buttons at the bottom of the form are: View and Download, Flash Based Graph, Graph and Download. A note states: "Notes: Flash Based Graph can not be played on iPad or iPod."

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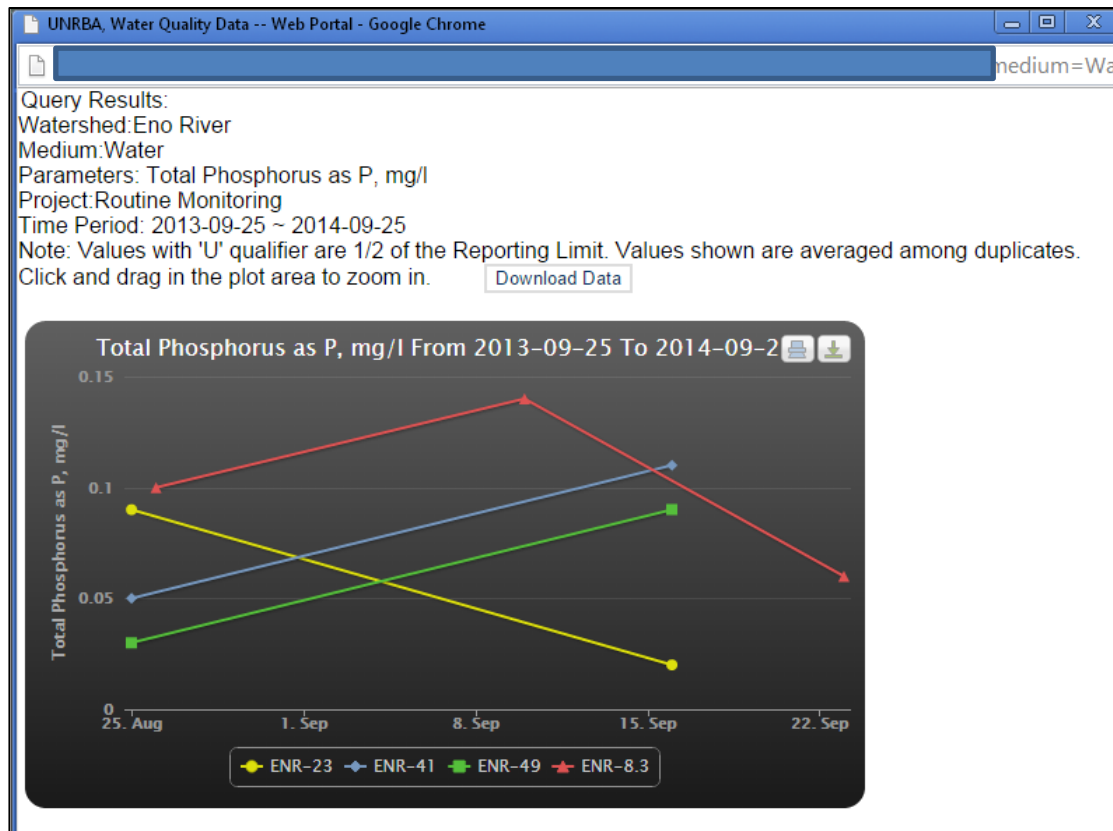
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Data Queries by Station and Parameter

- Select sampling information by Station, Stream, Subwatershed, and Station Type





Station Information

- Select Station information by Station, Stream, Subwatershed, and Project

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Map +	<p>Use the options to search for station information. Data are given in a .csv format to be viewed in the browser or downloaded as needed.</p> <p>Station Name - Stream Name - Location: <i>Hold the ctrl or shift key to select multiple stations.</i></p> <div style="border: 1px solid gray; padding: 2px;"> <p>All</p> <p>BDC-2.0 - Beaverdam Creek - at Horseshoe Road</p> <p>BUC-3.6 - Buckhorn Creek - at Buckhorn Lane</p> <p>CMP-23 - Camp Creek - at Range Road (SR 1610)</p> <p>DPC-23 - Deep Creek - at Smith Road</p> </div> <p>County: All ▼</p> <p>Stream Names: All ▼ Subwatersheds: All ▼</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid gray; padding: 2px;"> <p>Beaverdam Creek</p> <p>Buckhorn Creek</p> <p>Camp Creek</p> <p>Deep Creek</p> </div> <div style="border: 1px solid gray; padding: 2px;"> <p>Beaverdam Creek</p> <p>Ellerbe Creek</p> <p>Eno River</p> <p>Flat River</p> </div> </div> <p>Site Type: All ▼ By Project: All ▼</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid gray; padding: 2px;"> <p>Falls Lake</p> <p>JurisdictionalBoundary</p> <p>LakeLoading</p> </div> <div style="border: 1px solid gray; padding: 2px;"> <p>High Flow Sampling</p> <p>Routine Monitoring</p> <p>Routine Monitorings</p> </div> </div> <p>Sampling Time Period: <i>check it if you want to search based on sampling time period.</i></p> <p><input type="checkbox"/> From: 2014-08-20 To: 2014-09-25</p> <p>View and Download Map It</p>
Sampling Info	
Data +	
Reports & Statistics +	
Station Info	
How to Get Data	

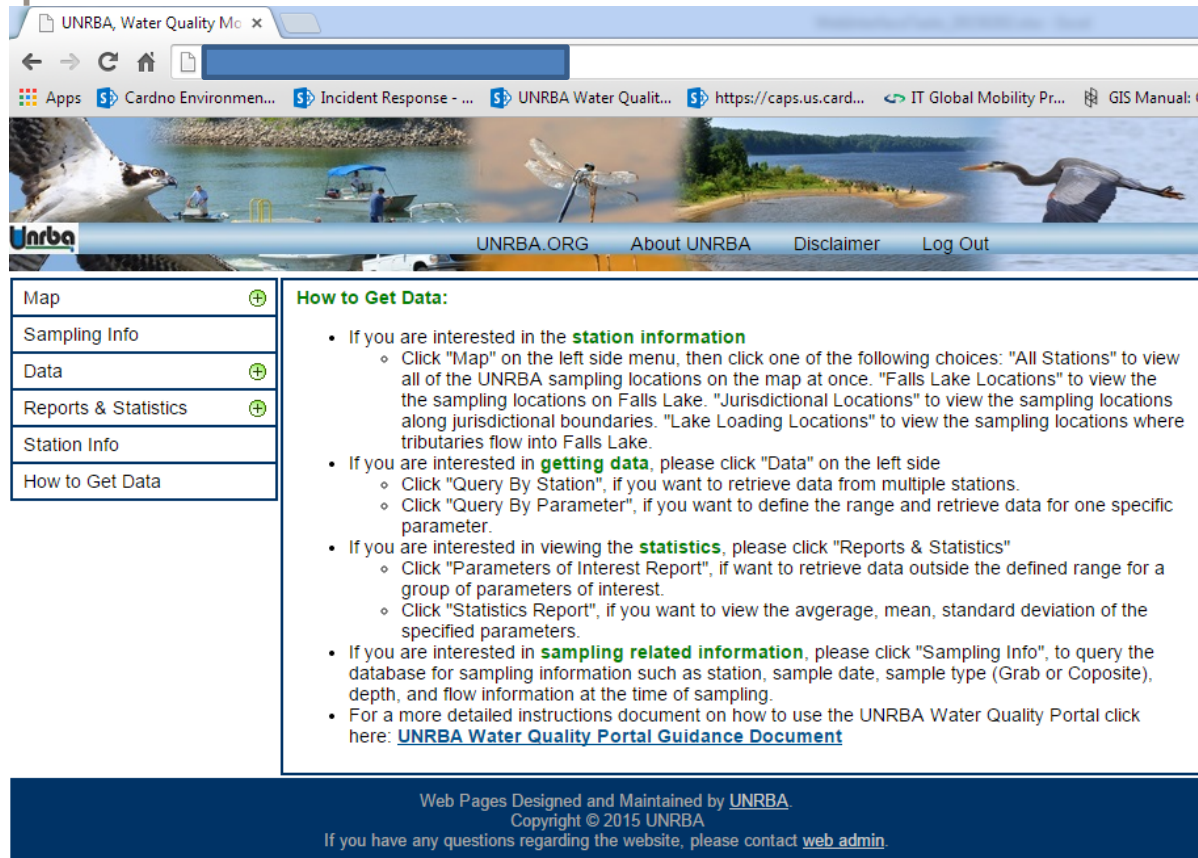
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Online Support



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Map	⊕
Sampling Info	
Data	⊕
Reports & Statistics	⊕
Station Info	
How to Get Data	

How to Get Data:

- If you are interested in the **station information**
 - Click "Map" on the left side menu, then click one of the following choices: "All Stations" to view all of the UNRBA sampling locations on the map at once. "Falls Lake Locations" to view the the sampling locations on Falls Lake. "Jurisdictional Locations" to view the sampling locations along jurisdictional boundaries. "Lake Loading Locations" to view the sampling locations where tributaries flow into Falls Lake.
- If you are interested in **getting data**, please click "Data" on the left side
 - Click "Query By Station", if you want to retrieve data from multiple stations.
 - Click "Query By Parameter", if you want to define the range and retrieve data for one specific parameter.
- If you are interested in viewing the **statistics**, please click "Reports & Statistics"
 - Click "Parameters of Interest Report", if want to retrieve data outside the defined range for a group of parameters of interest.
 - Click "Statistics Report", if you want to view the avgerage, mean, standard deviation of the specified parameters.
- If you are interested in **sampling related information**, please click "Sampling Info", to query the database for sampling information such as station, sample date, sample type (Grab or Cposite), depth, and flow information at the time of sampling.
- For a more detailed instructions document on how to use the UNRBA Water Quality Portal click here: [UNRBA Water Quality Portal Guidance Document](#)

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Online Support

- Instructional document available online that provides input for data access options
- Draft will be sent to PFC later this week





Database Updates – February Actions

- Users create login accounts and review training materials
- Receive feedback from UNRBA PFC
- Identify web interface and report customizations for ver 2.0
- Production site “Public Go Live” date is tentatively scheduled for April based on input from UNRBA

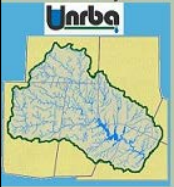


Live Demo

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Water Quality Data Web Portal --- Upper Neuse River Basin Association



Sign in to access data:

Username:

Password:

Login

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