

UNRBA Monitoring Program BOD Meeting January 21, 2015





Update on the Monitoring Program

January 2015











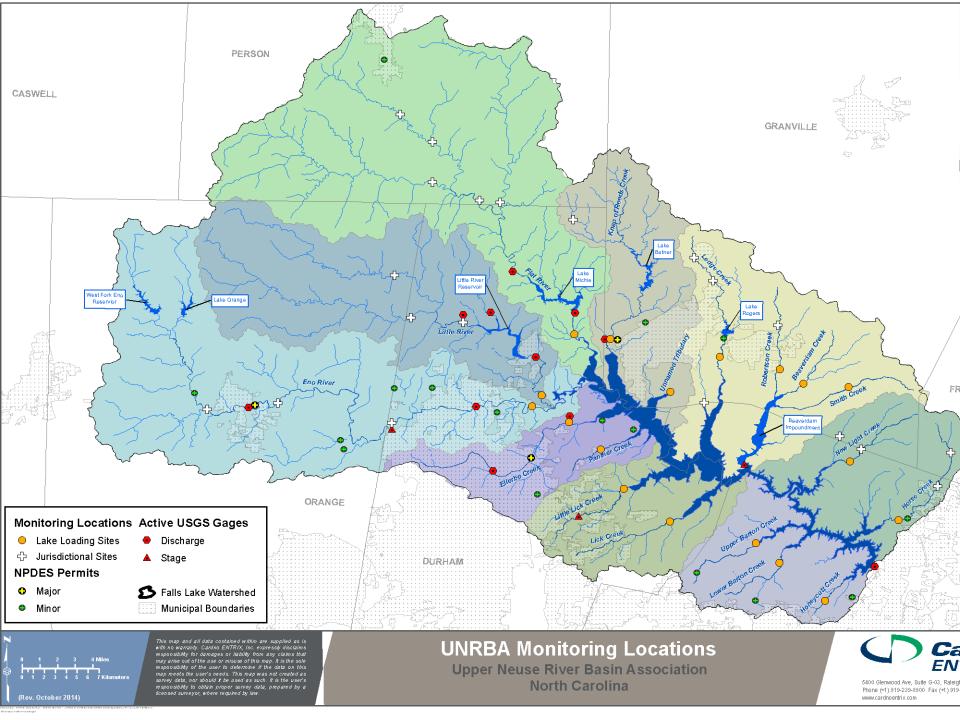


Monitoring Program Summary

- Stream Monitoring Data collected since August
- Additional Lake Monitoring collected since October
- New special studies reviewed with PFC in November
- UNRBA Database and Interface software updates to provide increased security















Monitoring Program Progress

- Stream Monitoring the UNRBA monitoring program has collected over 4000 measurements to date
 - 20 Jurisdictional Stations sampled monthly
 - 18 Lake Loading stations sampled monthly with the "big 5" sampled twice a month
- Falls Lake Monitoring
 - At UNRBA's request DWR began monitoring an additional station in Falls Lake bringing the total number of stations monitored monthly to 12
 - Also at UNRBA's request DWR added 4 analyses to their Falls Lake Monitoring program and is providing field filtered samples for analysis by the UNRBA's contract lab













Monitoring Program Progress

- Stream Monitoring
 - Revisions to data collection protocols based on observed conditions
 - Adjustments to a few sampling locations
 - The lab has provided August through October data with November expected shortly
 - Over 2000 data points have been reviewed and evaluated against UNRBA QAPP and uploaded to database
- Discussions held with EPA and DWR regarding request for EPA to collect benthic nutrient flux data in Falls Lake
- WRC agreed to begin collecting fish data at additional station near I-













Monitoring Program Progress

- New special studies reviewed with PFC in November
 - High flow monitoring at 8 stations (2 events)
 - Sample collection and analysis reviewed with lab
 - Additional stormwater data collection
 - Draft protocols developed
 - "On-call" staffing calendar
 - Benthic nutrient data collection UNC Chapel Hill
 - Met with Dr. Alperin in December
 - Work with PFC to prepare for meetings with EPA and DWR to discuss alternative regulatory development and associated data needs





Stream Monitoring Results

Lake Loading and Jurisdictional Stations











TN, TP and TOC data – Lake Loading Stations











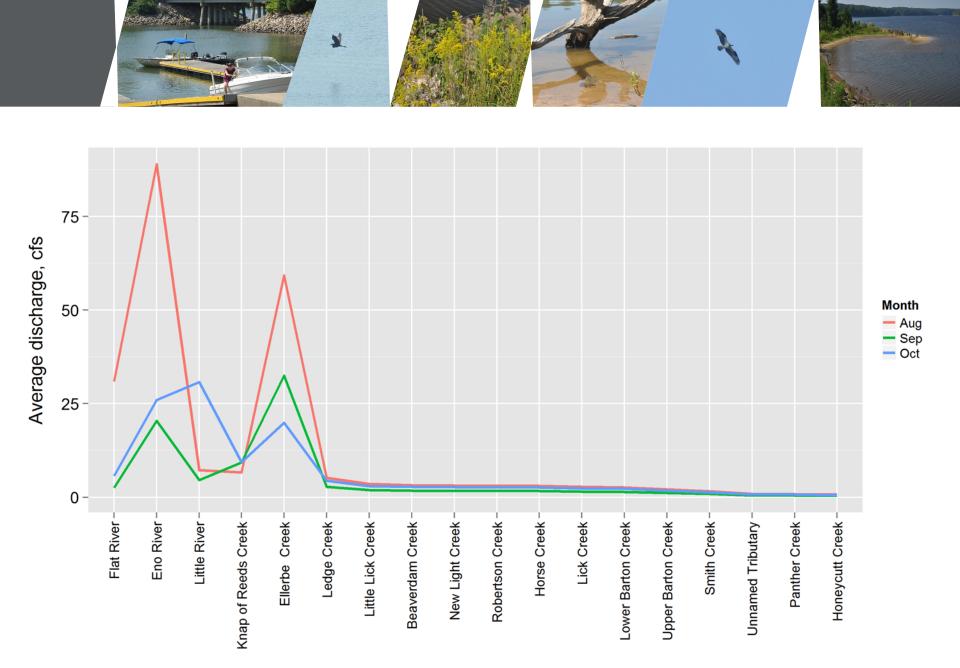


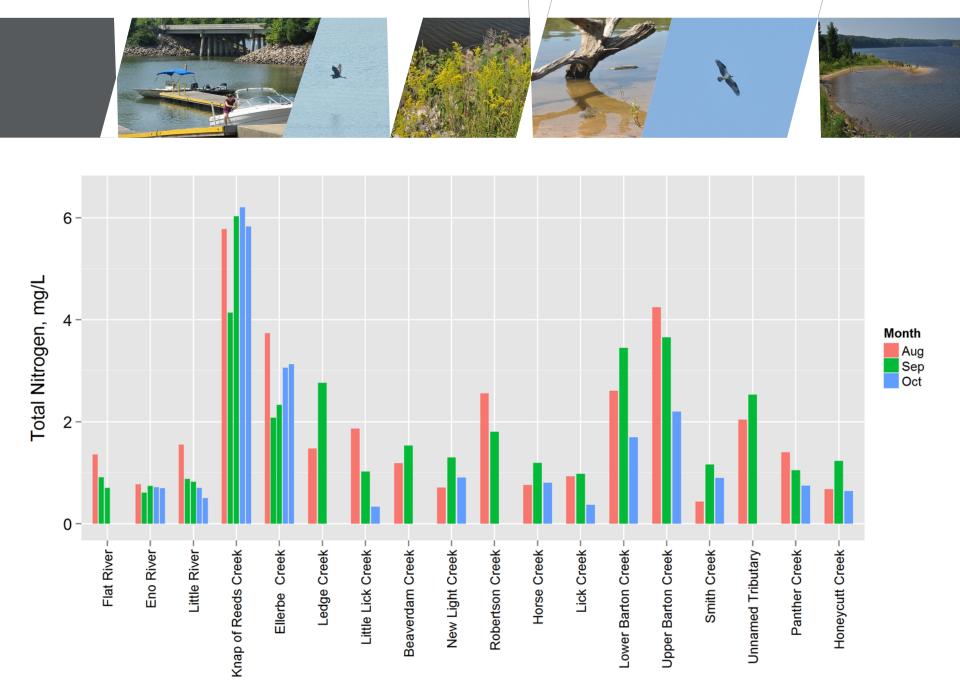


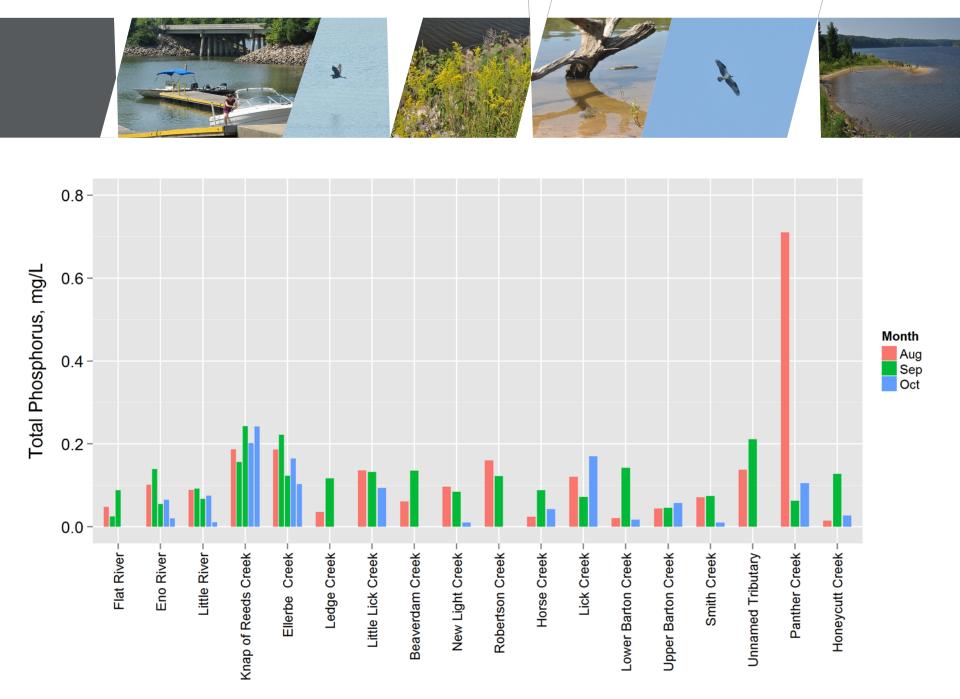
Lake Loading Stations

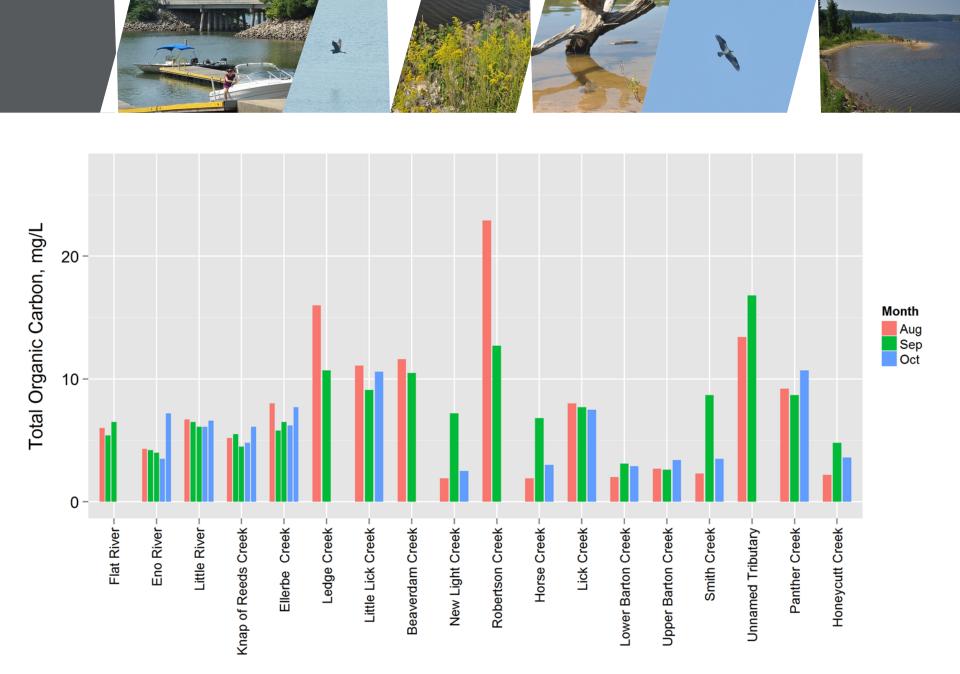
Plan ID	Station ID	Waterbody Name	Location
LL01	KRC-4.5	Knap of Reeds Creek	at SGWASA WWTP
LL02	FLR-5.0	Flat River	at Old Oxford Highway
LL03	LTR-1.9	Little River	at Old Oxford Highway
LL04	ENR-8.3	Eno River	at Old Oxford Highway
LL05	ELC-3.1	Ellerbe Creek	at Glenn Road
LL06	PAC-4.0	Panther Creek	at end of Cooksbury Drive
LL07	LLC-1.8	Little Lick Creek	at Patterson Road
LL08	LKC-2.0	Lick Creek	at Southview Rd south of Hwy 98
LL09	UNT-0.7	Unnamed Tributary	at Northside Road
LL10	LGE-5.1	Ledge Creek	at Highway 15
LL11	ROB-2.8	Robertson Creek	at Brassfield Road
LL12	BDC-2.0	Beaverdam Creek	at Horseshoe Road
LL13	SMC-6.2	Smith Creek	at Lawrence Road
LL14	NLC-2.3	New Light Creek	at Mangum Dairy Road
LL15	HSE-1.7	Horse Creek	at Thompson Mill Road
LL16	UBC-1.4	Upper Barton Creek	at Mt Vernon Church Road
LL17	LBC-2.1	Lower Barton Creek	at Norwood Road
LL18	HCC-2.9	Honeycutt Creek	at Honeycutt Road



















TN, TP and TOC data – Jurisdictional Stations













Jurisdictional Stations

Plan ID	Station ID	Waterbody Name	Location
JB01	ENR-49	Eno River	at Dimmocks Mill Road
JB02	ENR-41	Eno River	at Hwy 70 and Riverside Drive
JB03	ENR-23	Eno River	at Cole Mill Road
JB04	NLR-27	North Fork Little River	at New Sharon Church Road
JB05	SLR-22	South Fork Little River	at Guess Road (Hwy 157)
JB06	LTR-16	Little River	at Johnson Mill Road
JB07	NFR-37	North Flat River	at Highway 57
JB08	NFR-32	North Flat River	at Helena-Moriah Road
JB09	SFR-30	South Flat River	at Highway 57
JB10	FLR-25	Flat River	at Moores Mill Road
JB11	DPC-23	Deep Creek	at Smith Road
JB12	CMP-23	Camp Creek	at Range Road (SR 1610)
JB13	LLG-0.9	Little Ledge Creek	at Old Weaver Trail
JB14	LGE-17	Ledge Creek	at Old Route 75
JB15	LGE-13	Ledge Creek	at W Lyon Station Road
JB16	ROB-7.2	Robertson Creek	at Sam Moss Hayes Road
JB17	BUC-3.6	Buckhorn Creek	at Buckhorn Lane
JB18	NLC-3.8	New Light Creek	at Bold Run Hill Road
JB20	HSE-7.3	Horse Creek	at Purnell Road
JB21	HSE-11	Horse Creek	at Green Road





