

UNRBA Path Forward Committee

Monitoring Program Status Update

December 4, 2017



Routine Monitoring Update

December 2017

Routine Monitoring Status

Date	Sample Collection	Sample Analysis	Data Review	Posted to Database
Aug – Dec 2014	✓	✓	✓	✓
Jan – Dec 2015	✓	✓	✓	✓
Jan – Dec 2016	✓	✓	✓	✓
January 2017	✓	✓	✓	✓
February 2017	✓	✓	✓	✓
March 2017	✓	✓	✓	✓
April 2017	✓	✓	✓	✓
May 2017	✓	✓	✓	✓
June 2017	✓	✓	✓	✓
July 2017	✓	✓	✓	✓
August 2017	✓	✓	✓	✓
September 2017	✓	✓		
October 2017	✓	✓		
November 2017	✓			
December 2017				

As of October 2017, more than 3 years, and 3 full growing seasons of data have been collected by the UNRBA

Routine Monitoring Activities Ahead

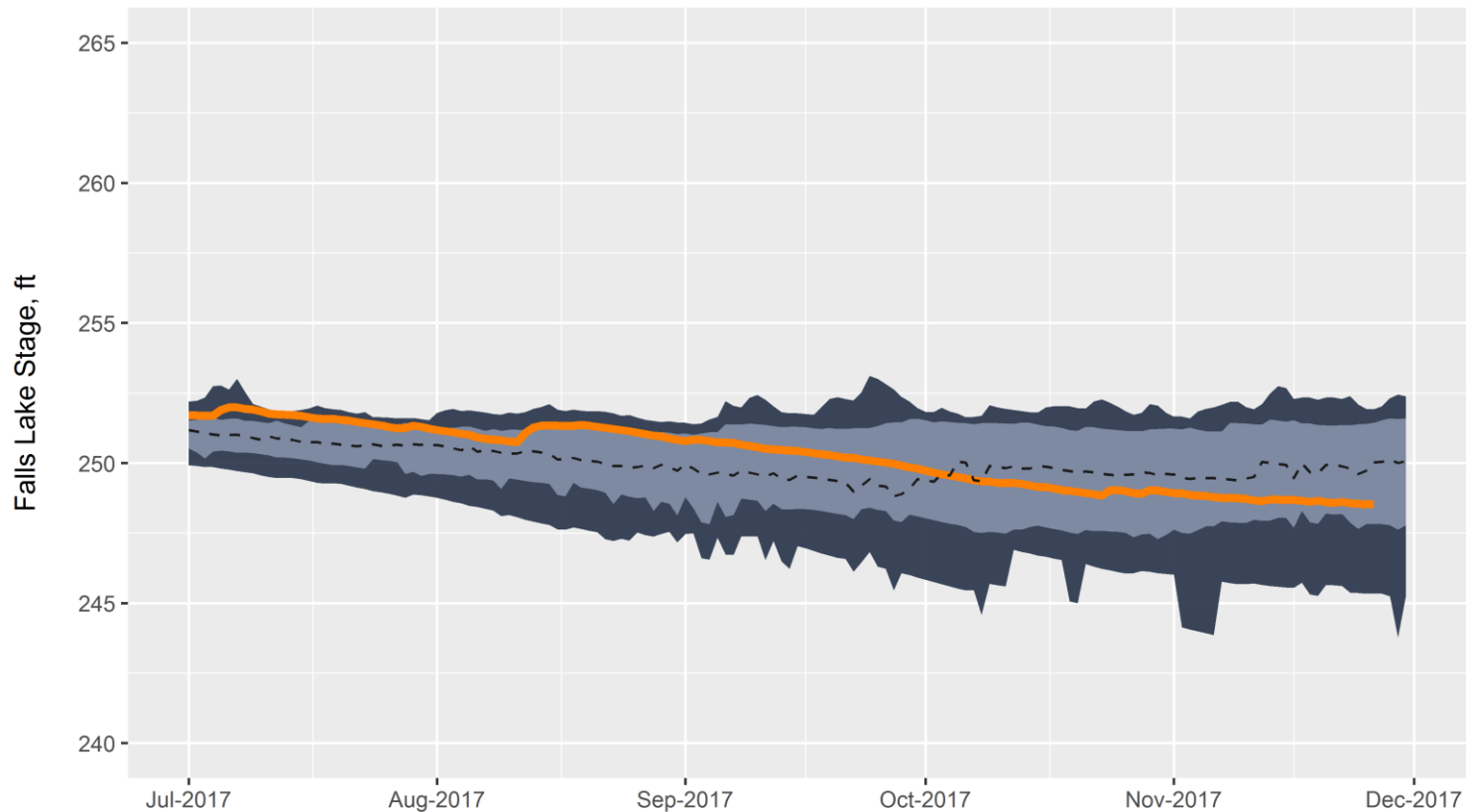
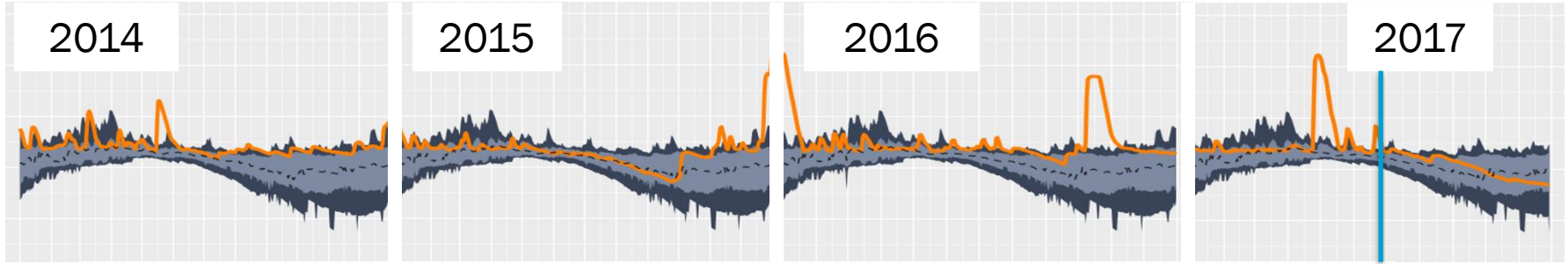
- Annual Report preparation has begun
 - Due in April 2018
 - More/broader analysis than in prior reports
 - Working with SME's and modeling team on beneficial content
- Evaluate/discuss changes to Routine Monitoring after October 2018 (4 years and 4 full growing seasons of data collection)
 - Work closely with Path Forward Committee
 - Include recommendations in Annual Report
 - Develop preliminary monitoring budget for FY2019

Special Studies Update

December 2017

High Flow Sampling

Since July, no rain events suitable to allow for sample collection



Sediment Study

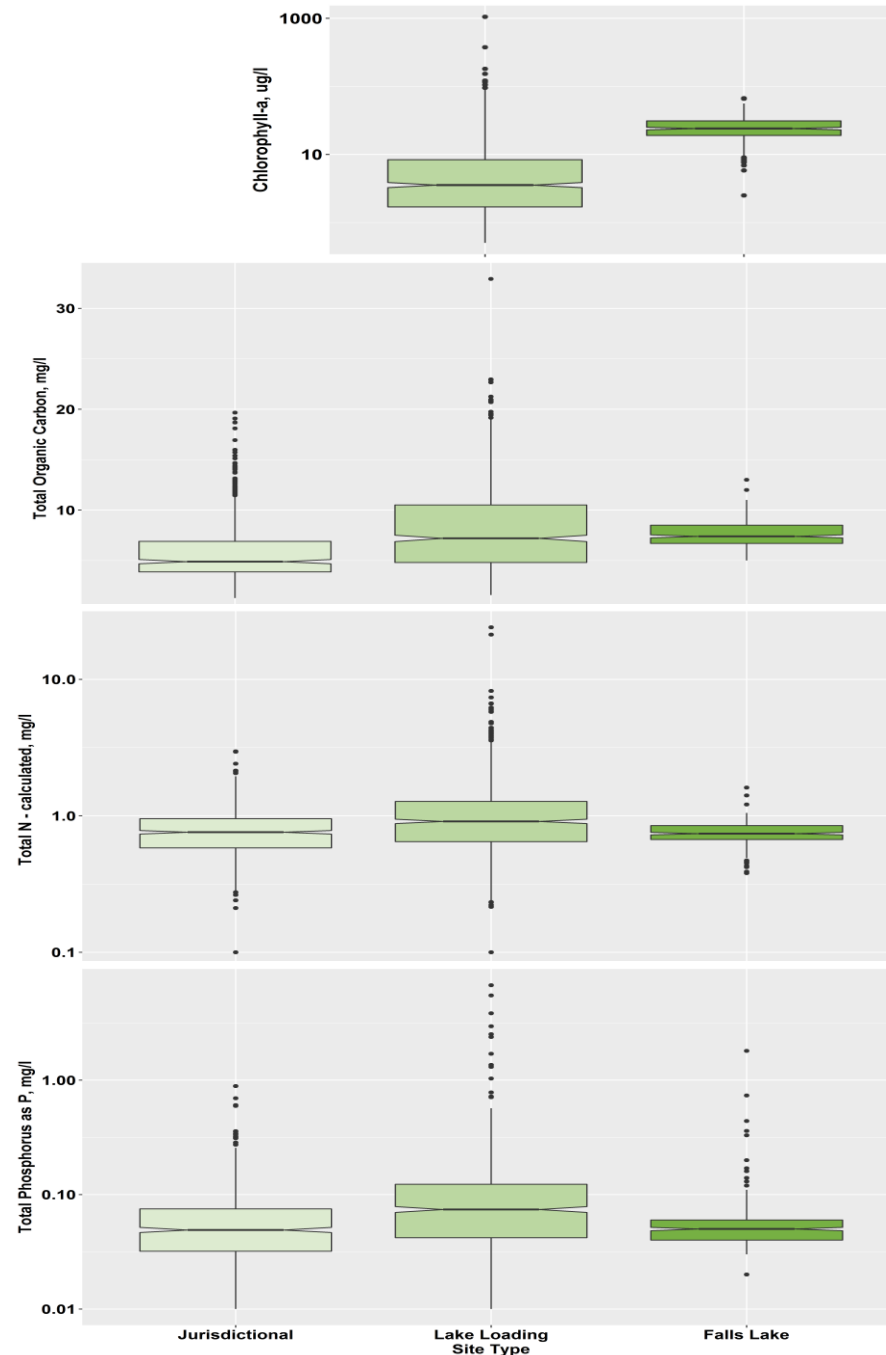
- Working closely with Dr. Marc Alperin (UNC) to complete report on sediment sampling and analysis
- Will be included in the Annual Report
- Results will be provided to the lake response modeling team

Other Activities

- Considering additional efforts to address Designated Use support
 - Addressing the Biological Integrity facet of the standard, for example
 - Working with Forrest and his Subject Matter Experts, the Modeling and Regulatory Support Workgroup and the PFC
 - Assessing available information and data
 - Considering whether supplemental data acquisition or analysis may be warranted

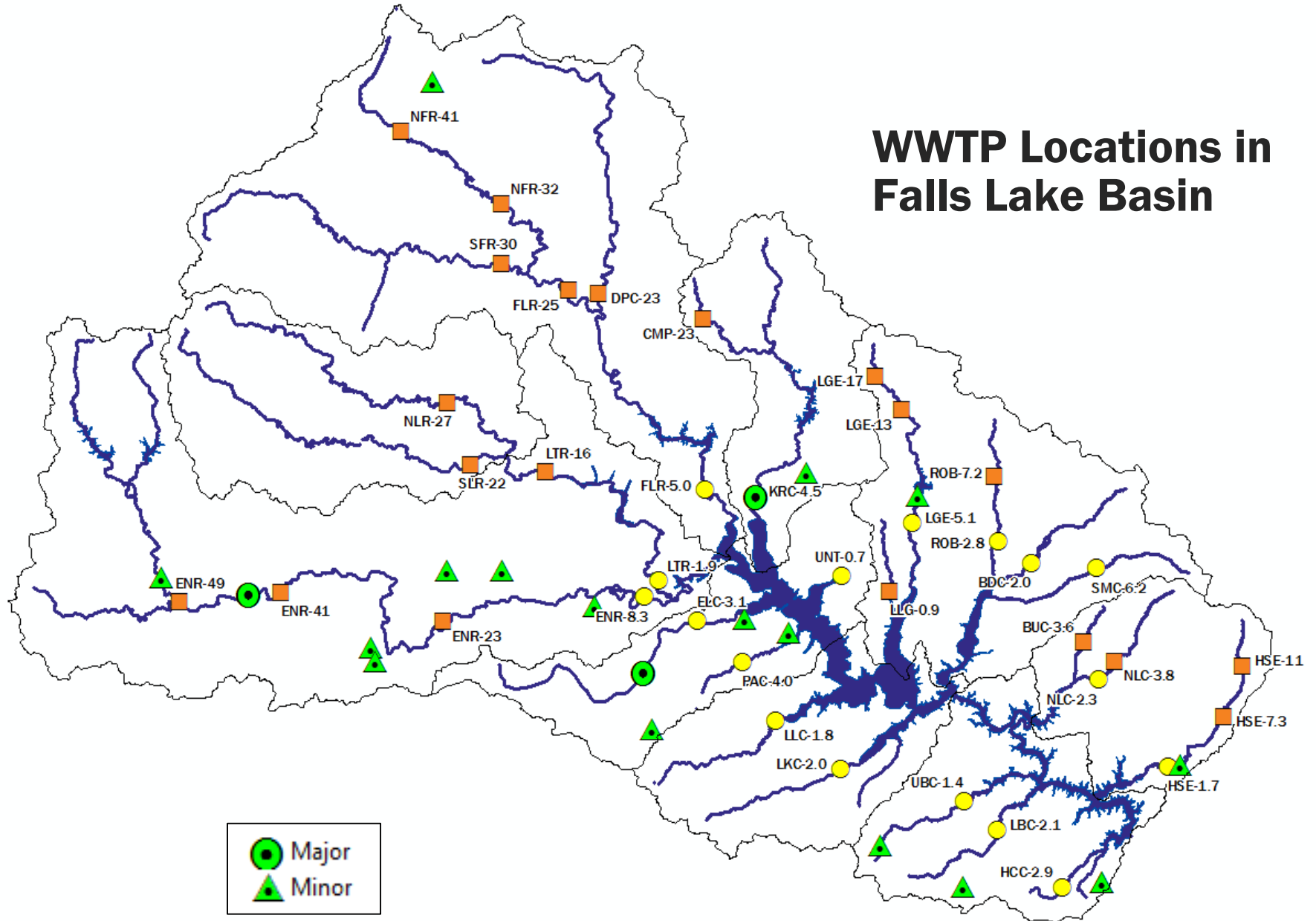
Examples of Potential Analyses for 2018 Annual Report

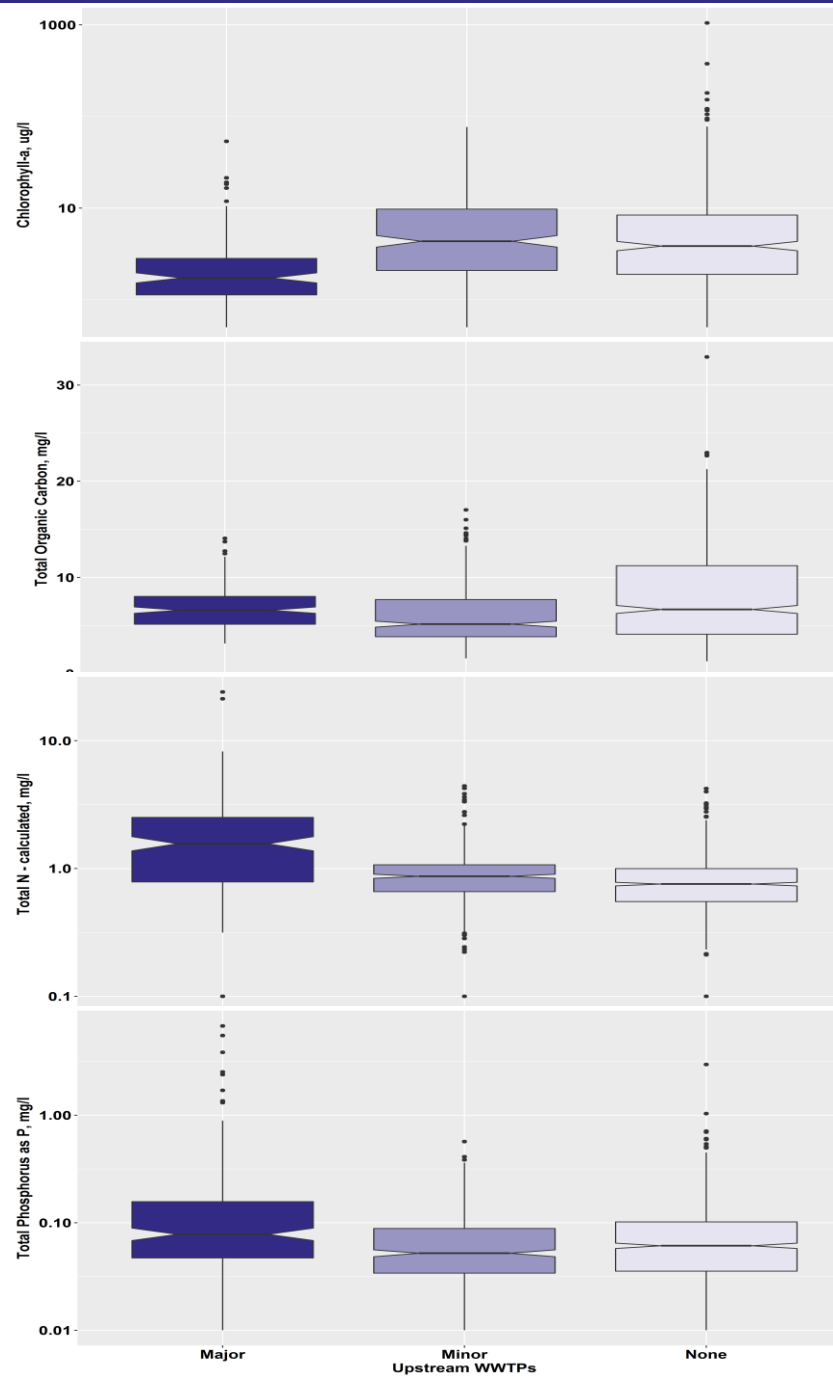
December 2017



Relationships of
water quality to
monitoring
station type

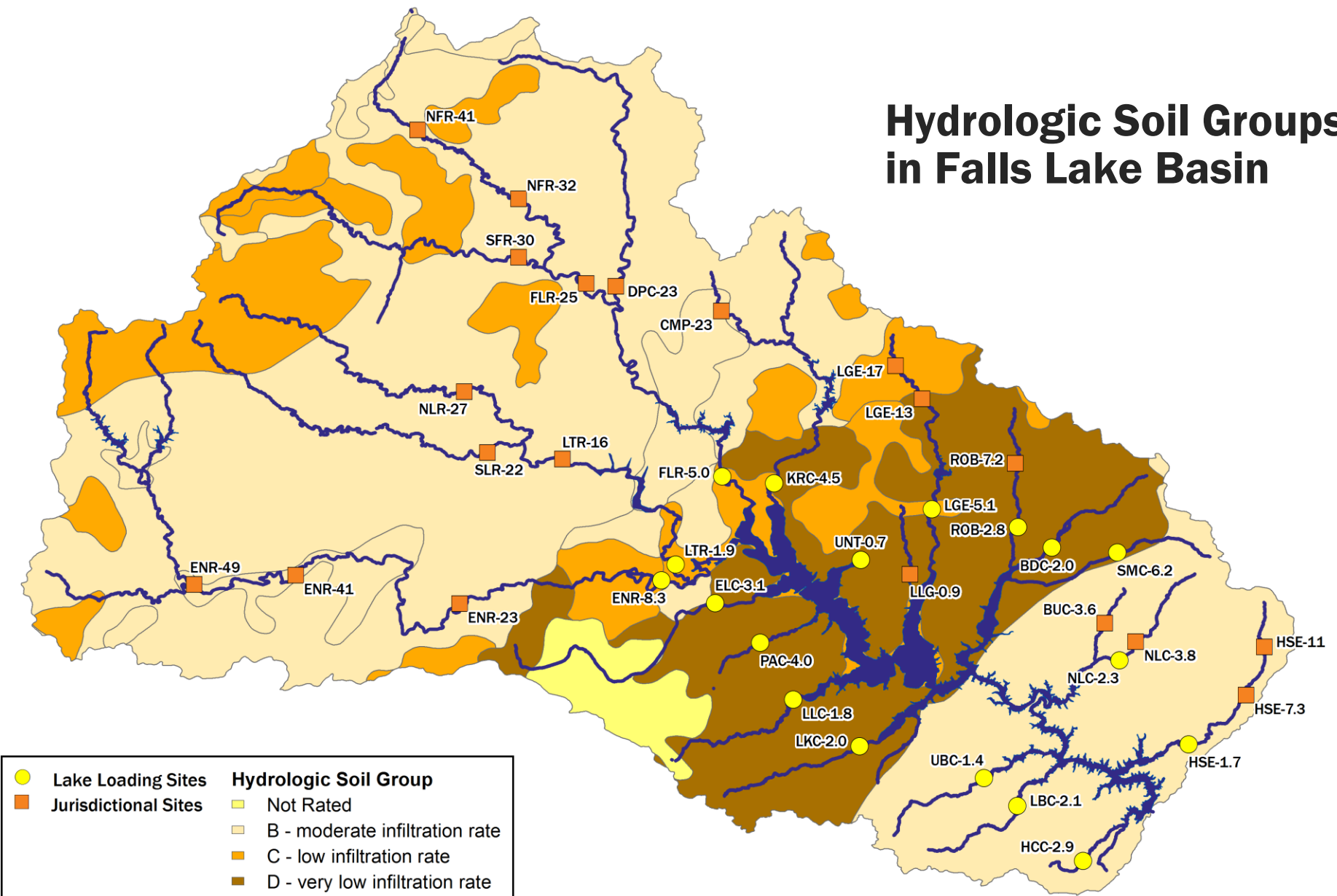
WWTP Locations in Falls Lake Basin

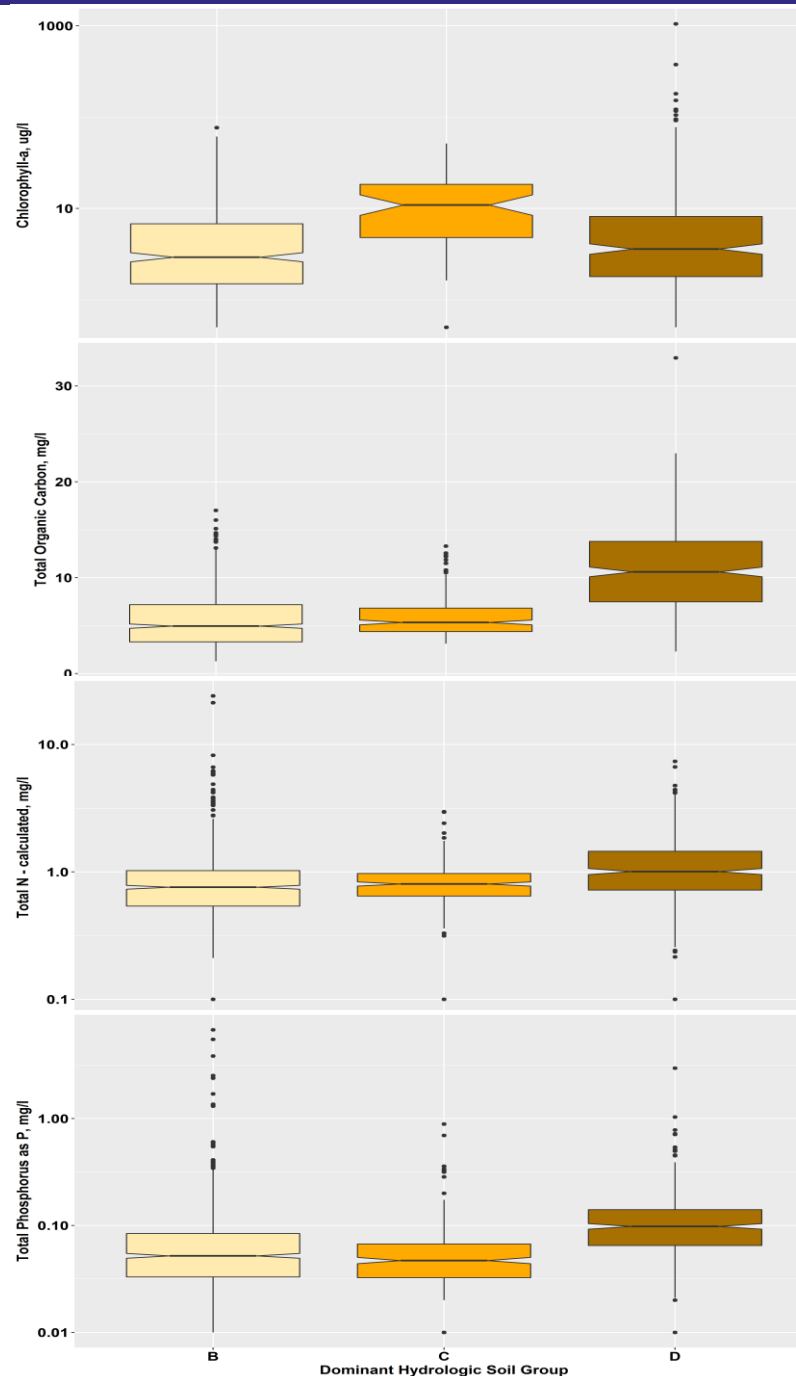




Relationships of
water quality to
presence of
treatment
facilities
upstream

Hydrologic Soil Groups in Falls Lake Basin





Relationships of
water quality to
dominant
hydrologic soil
group

- Hydrologic Soil Group**
- B - moderate infiltration rate
 - C - low infiltration rate
 - D - very low infiltration rate

Questions ?

