Monitoring Program Update

Board of Directors Meeting
May 2017

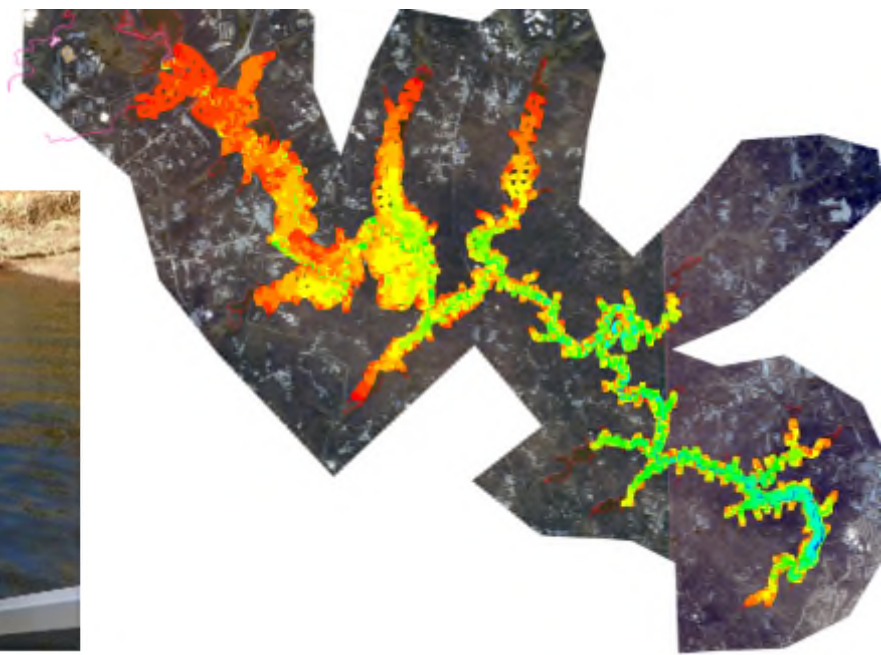May 17, 2017

Routine Monitoring – Data generation status

Date	Sample Collection	Sample Analysis	Data Review	Posted to Database
Aug-Dec 2014	✔	✔	✔	✔
Jan-Dec 2015	✔	✔	✔	✔
Jan-Dec 2016	✔	✔	✔	✔
Jan-2017	✔	✔	✔	✔
Feb-2017	✔	✔		
Mar-2017	✔	✔		
Apr-2017	✔			
May-2017	✔			
Jun-2017				
Jul-2017				
Aug-2017				
Sep-2017				
Oct-2017				
Nov-2017				
Dec-2017				

Bathymetry and Sediment Mapping: Field Work Completed

> Improve representation of the lake in the modeling
> Started on March 6 & completed April 14.
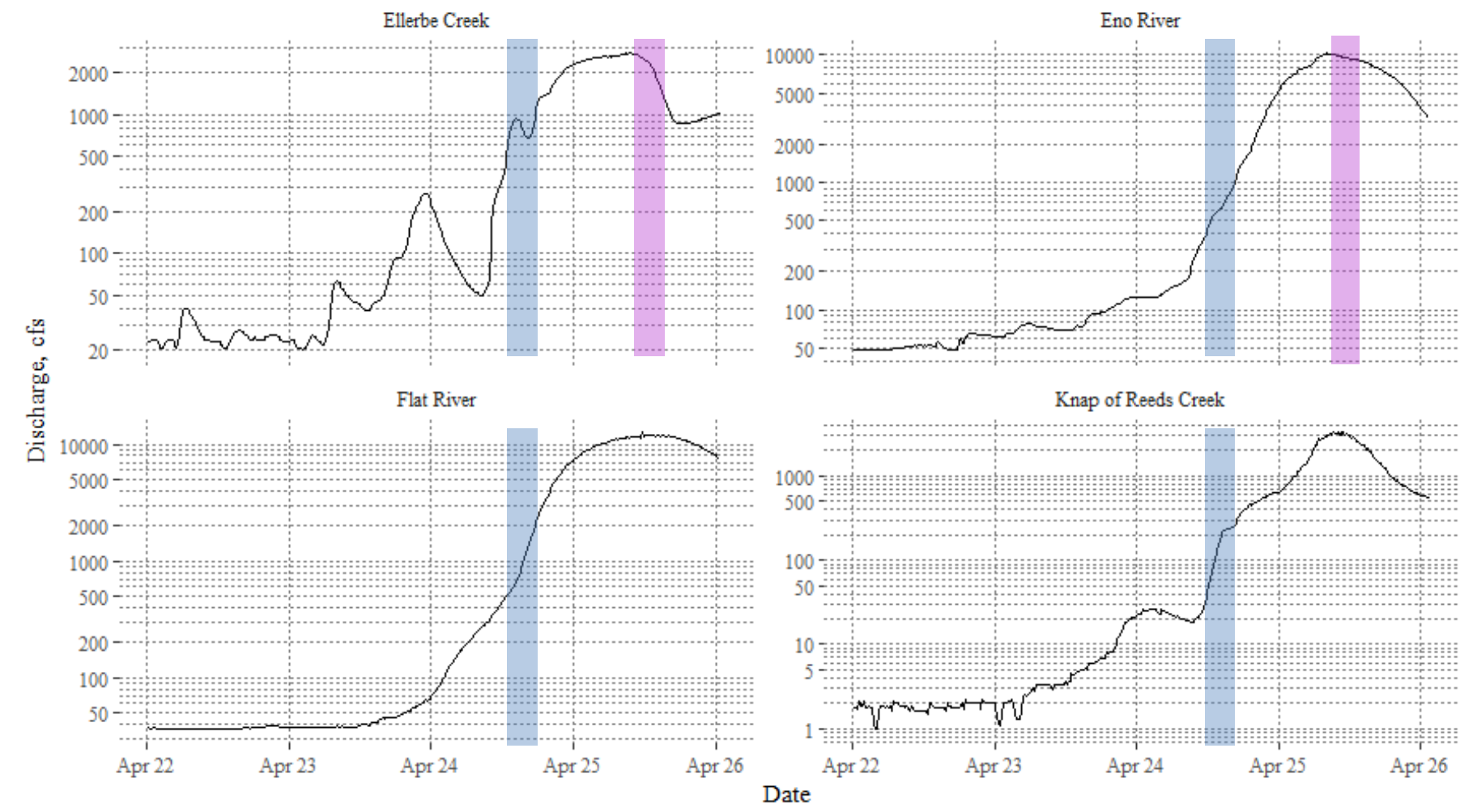> Digitization and mapping are now underway
> Target completion by June 30

High Flow Sampling: April 24-25, 2017

> Collect water quality data when inflows to Falls Lake are high

> April 23-25 Rainfall
>> Upper watershed: 7-8 inches
>> Lower watershed: 5-6 inches

> Reservoir was 9.5 feet above normal pool (2¼ feet above levels from Hurricane Matthew)

High Flow Sampling: April 24-25, 2017

Lake sediment evaluation

> We have sediment nutrient data in-hand

> Dr. Alperin (UNC-Chapel Hill) is modeling sediment nutrient flux for each core location

> Report on flux estimates is expected from Dr. Alperin by June 30

Annual Report

- Report has been drafted and reviewed by subject matter expert
- Revised report will be sent to PFC this week

Looking ahead to FY2018: Year 4

- Year 3 of monitoring will be completed at the end of July 2017
- Three full growing seasons will be completed at the end of October 2017
- UNRBA Monitoring Plan specifies a minimum of four years of routine monitoring
- Special Studies
  - Proposed continuation of High Flow sampling in Year 4
  - No other special studies proposed