

Harpeth River Watershed Sampling Call

Friday, June 29, 2018

Attendees

TDEC: Regan McGahen, Jennifer Dodd, David Duhl, Stephanie Durman
EPA: Tim Wool, Craig Hesterlee, Amanda Howell, Glenn Fernandez, Amy Feingold
Harpeth Conservancy (HC): Dorie Bolze, Dan Fitzgerald
Franklin: Mark Hilty
WADC: Nick Tatum
Metro Nashville: Veronica Logue
Berry's Chapel/Cartwright Ck: Bruce Meyer

WELCOME AND ROLL CALL

UPDATES ON SAMPLING FROM EACH GROUP:

Franklin

Periphyton sampling began in June (every 2 weeks) and will continue through October at sites #2, #3 & #7

Not doing BOD_U

All sampling going as planned with no problems

Harpeth Conservancy

Sampling at site #1 began in May and will continue through October

Sampling Chl-a at sites #4 & 4a since Metro is not able to process this type of sampling

Seeing a large increase in CBOD this season as compared to last season

Noted that they switched labs this season

Still looking for guidance on where to focus their efforts and money

Water Authority of Dickson County

Sampling at site #9 began in March and will continue through October

All sampling going as planned with no problems

Metro Nashville

Sampling at sites #4 & 4a began in March and will continue through October

All sampling going as planned with no problems

Not seeing an increase in BOD

Cartwright Creek/Berry's Chapel

Not doing additional sampling, but funding is being used for USGS station

LAB DISCUSSION:

HC has switched over to Test America for their samplings and are seeing a large increase in CBOD
Bruce Meyer noted that they are also using Test America and are seeing very high CBOD
David Duhl suggested that they split their samples between 2 different labs
Mark Hilty asked if they were using containers from the lab and if that could be a problem

PERIPHYTON SAMPLING DISCUSSION:

HC

Stated that since their funding was secure, their primary focus was periphyton and their secondary focus was BOD_U
Periphyton sampling last year was a one-time sampling event at site #1, #1a, #2 & #4a
Still looking for place to focus their money
Would like to have a protocol for how to conduct a visual assessment

TDEC

Trutta video does not show what is needed for this study
Would we want to have periphyton sampling at site #1?

EPA

(Tim Wool) stated that periphyton sampling in lower 2/3 of the watershed on the main stem would be preferable.
Sampling bi-weekly is not necessary and may be too frequent to see any change.
Would really like a visual inspection of the river to see where the periphyton is actually growing.
Will be checking with their field services to see if they have used any type of drone data
Also re-stated that BOD_U would be nice but definitely not needed.
Amanda Howell said that they are still waiting on a response from Franklin about some of their data

FRANKLIN

Mark Hilty will ask CEC if they know anything about using a drone to collect data
Franklin will shift sampling frequency for periphyton and possible add site #1?
Mark said that he would get with Michelle Hatcher and they would respond to EPA on Monday

NEXT STEPS

Possible follow up call to follow in a couple of weeks (coordinated by Dorie Bolze)
Large stakeholder meeting to be held on August 1st.

Updated 2018 Sampling Plan

Franklin:

Site(s): #2, #3 & #7 (plus permit sites (chemical))
Frequency: Bi-Weekly (June-October)
Parameters: Nitrate, nitrite, TKN, total nitrogen
Ortho-phosphorus, total phosphorus
Turbidity, BOD₅, TSS, pH, NH₃, DO, temp
Rainfall (inches)
Chl-a

CEC-Periphyton (frequency may change to monthly)

WADC:

Site(s): #9
Frequency: Bi-Weekly (March-October)
Parameters: NH₃, Nitrate, nitrite, TKN, total nitrogen
Ortho-phosphorus, total phosphorus
DO, BOD₅, pH & Chl-a

Harpeth Conservancy:

Site(s): #1
Frequency: Bi-Weekly (May-Oct)
Parameters: N, P, DO, pH, CBOB, Chl-a

Site(s): #4 & 4a
Frequency: Bi-Weekly (May-Oct)
Parameters: Chl-a

Metro:

Site(s): #4 & #4a
Frequency: Bi-weekly (March-October)
Parameters: TKN, NH₃, nitrate, nitrite, BOD₅, total phosphorus, ortho-phosphorus, pH