

# **Community Based Restoration Monitoring**

Liz Chudoba

Nontidal Network Workgroup

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## **Chesapeake Monitoring Cooperative**

Aims to provide technical, logistical, and outreach support for the integration of volunteer-based and nontraditional water quality and benthic macroinvertebrate monitoring data into the Chesapeake Bay Program (CBP) partnership.

**Cooperative Agreement** 



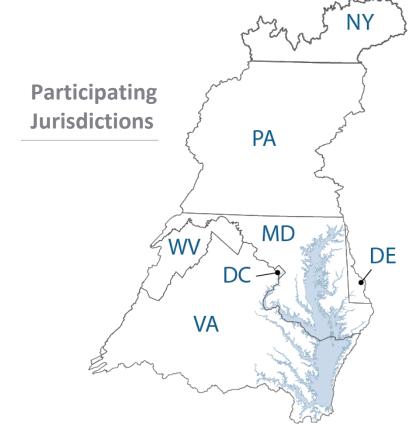


CMC development team partners & service providers











# **CBT Benthic Sampling Protocol**





### **Project Partners**

















### **Best Management Practices**

# Dirt and Gravel Road Erosion & Sediment Control



Photo Credit: Lori Glace, Cumberland County Conservation District

#### **Forest Buffer**



Photo Credit: Ryan Davis, Alliance for the Chesapeake Bay

#### **Stream Restoration**



Photo Credit: Underwood and Associates



### **Project steps**

- 1. Background research
- 2. Stakeholder Survey
- 3. Study Design
  - Project team, NFWF,Chesapeake Bay Program
- 4. Protocol & QAPP development

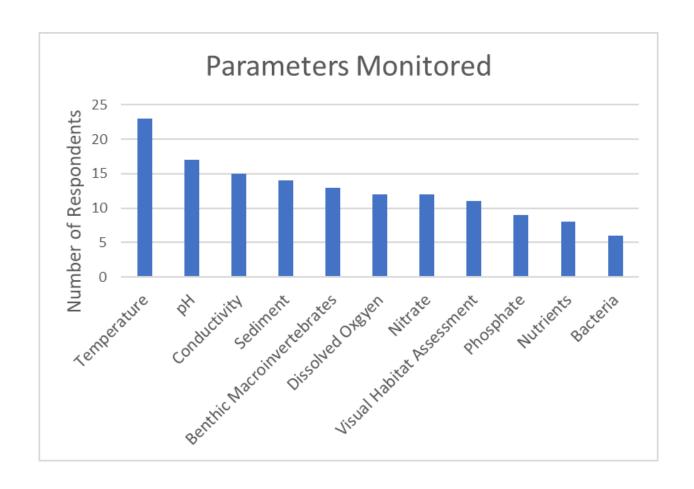




### Stakeholder Survey

### **Key findings (44 respondents)**

- Sporadic monitoring ~50%
- No common approach
- Requested technical assistance
- Need resources, both capacity and equipment





## Goals of protocol

- Assess the status of the intervention
  - Document pre, during, post restoration site status
- Help NFWF document visual/physical impact of practices on streams
  - Develop case studies that highlight the impacts
- Alert project managers to potential issues that need to be addressed
- Community accessible protocol

Report EPA, NRCS, USGS highlighting the need for a WQ restoration protocol

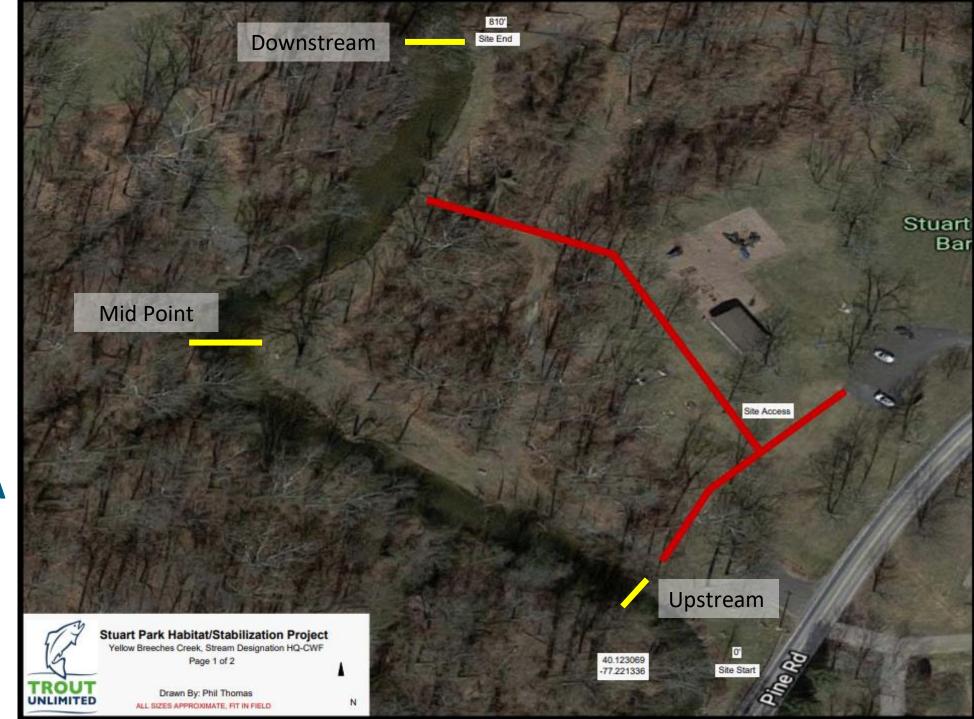




Primary question: What is the status of BMPs?					
	Pre (up to 2 years prior)	During	1-2 years	3-5 years	5+ years
Visual Assessment Temp Water clarity Water level Pictures	Spring and fall in year prior. Minimum, 1 survey.	Use photos as surrogate	Spring/fall annually	Annual	Biennial
Pictures	Take at time of Visual Assessment	Immediately before and after intervention	Take at time of Visual Assessment	Take at time of Visual Assessment	Take at time of Visual Assessment
Macroinvertebrates	Spring (ideally two springs before)	N/A	Fall or Spring immediately following intervention, then spring annually.	Biennial	Once/5 years



Stuart Park, PA



Stuart Park, PA

# Thank you!

Alliance for the Chesapeake Bay

Allianceforthebay.org

Liz Chudoba | Ichudoba@allianceforthebay.org



