Water Quality GIT Staffer Update

David Wood
Chesapeake Research Consortium
STAC Quarterly Meeting
June 7, 2016

St. Mary's College of Maryland

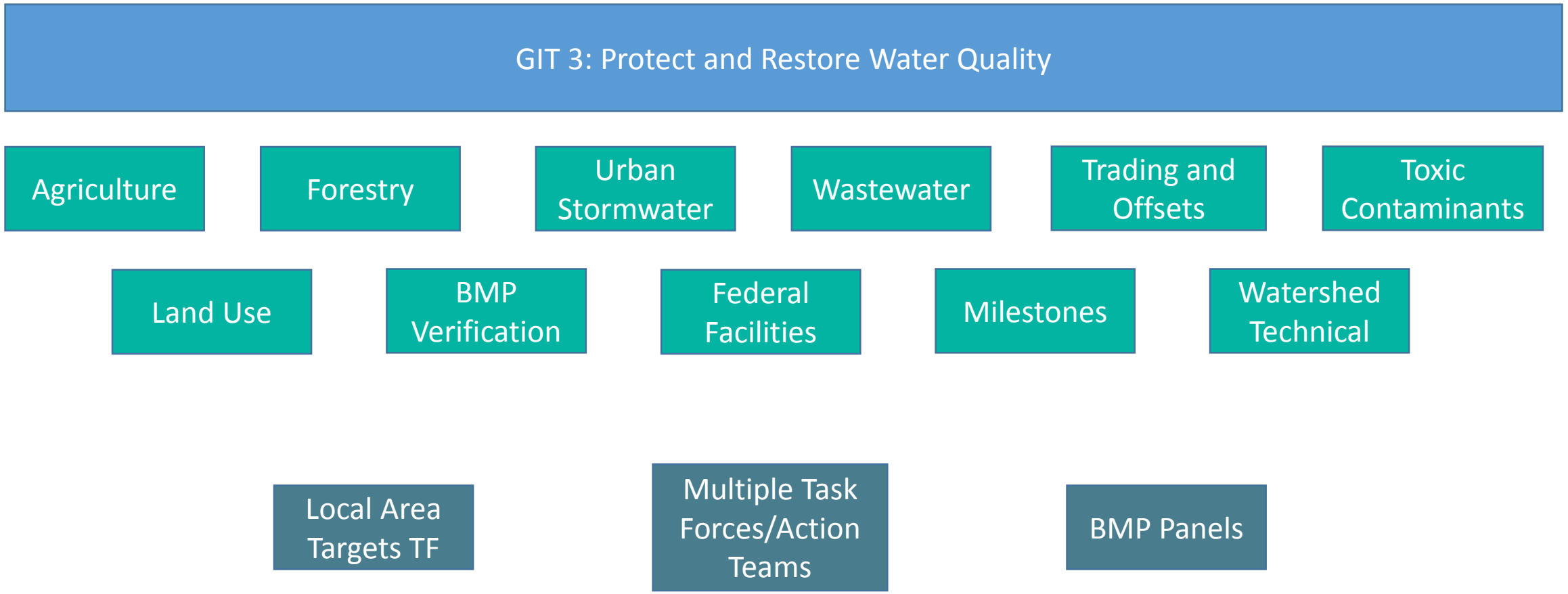
The Public Honors College

Class of 2014
Biology
Environmental Studies

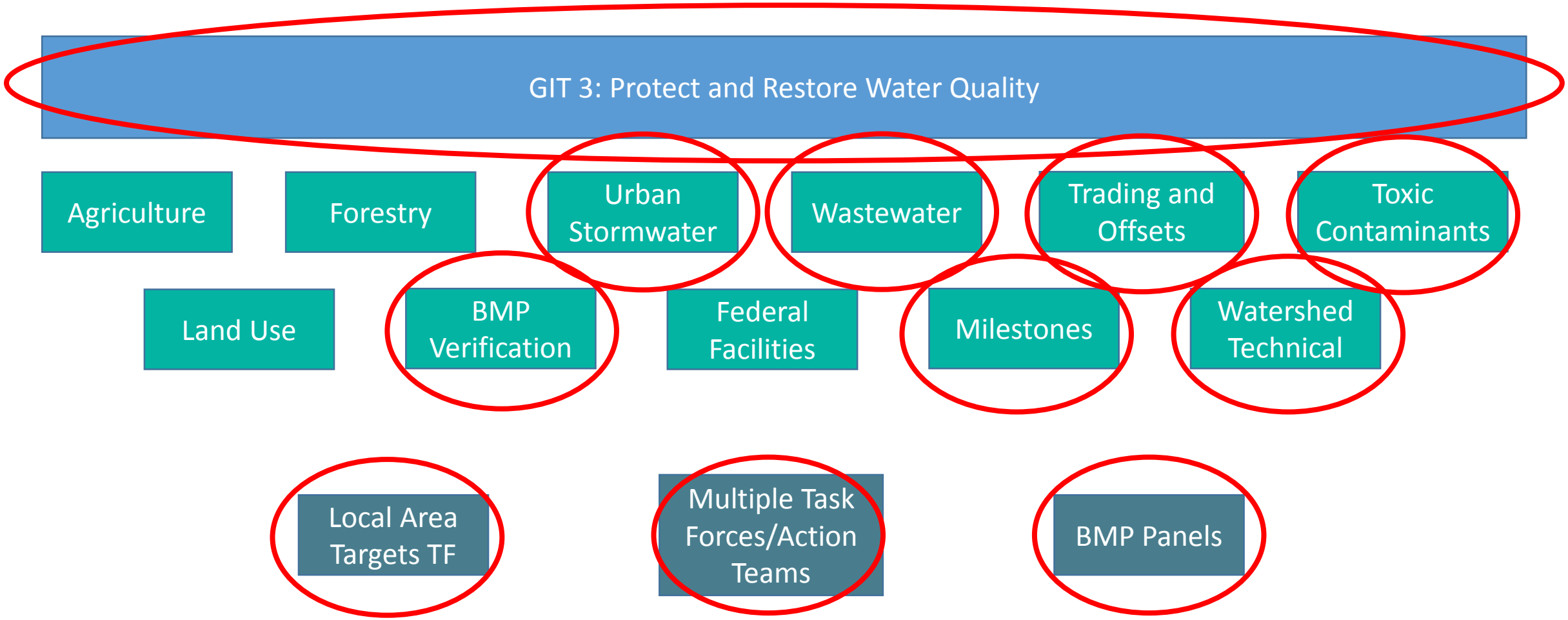
- River Friendly Neighborhoods Program
- Remote Oyster Setting Facility
- 3D Oyster Reef

ST. MARY'S RIVER
Watershed Association

Water Quality GIT Staffer



Water Quality GIT Staffer



Water Quality GIT Updates

19 BMP Expert Panels!!

Nutrient and Sediment Reductions from Algal Flow-way Technologies

Recommendations to the Chesapeake Bay Program's Water Quality Goal Implementation Team from the Algal Flow-way Technologies BMP Expert Panel

Charles Bott, Mark Brush, Elizabeth Canuel, Matt Johnston, Pat Kangas, Sarah Lane, Peter May, Walter Mulbry, Margaret Mulholland, David Sample, Kevin Sellner, and Kurt Stephenson

October 21, 2015

Port of Baltimore Algal Flow-way Installation (Courtesy of the Port of Baltimore)

MANURE TREATMENT TECHNOLOGIES

Recommendations from the Manure Treatment Technologies Expert Panel to the Chesapeake Bay Program's Water Quality Goal Implementation Team to define Manure Treatment Technologies as a Best Management Practice

ABSTRACT

Treatment technologies are used on livestock farms for three main purposes: to stabilize manure organic matter, to make manure easier to handle, and to generate on-farm energy. While performing these functions, manure treatment technologies profoundly affect the manner in which nutrients flow through the farm and environment. This report focuses on six broad categories of treatment technologies: Thermochemical Processing, Composting, Anaerobic Digestion, Settling, Mechanical Solid Liquid Separation, and Wet Chemical Treatments. The ability to reduce nitrogen by volatilization and to separate both nitrogen and phosphorous to a stream that is likely to be utilized off-farm is quantified for each technology. Transformation of nutrients to more plant-available forms is also discussed for each technology.

First draft released for CBP partnership review: 3/31/16
Approved by the Agriculture Workgroup: TBD
Approved by the Watershed Technical Workgroup: TBD
Approved by the Water Quality GIT: TBD

Chesapeake Bay Program

Recommendations of the Expert Panel to Define Removal Rates for Street and Storm Drain Cleaning Practices

Sebastian Donner, Bill Frost, Norm Goulet, Marty Hurd, Neely Law, Thomas Maguire, Bill Selbig, Justin Shafer, Steve Stewart and Jenny Tribo

FINAL REPORT

Approved by CBP Management Board

May 19, 2016

Prepared by:

Tom Schueler, Chesapeake Stormwater Network
Emma Giese, Chesapeake Research Consortium
Jeremy Hanson, Virginia Tech
David Wood, Chesapeake Research Consortium

Water Quality GIT Updates

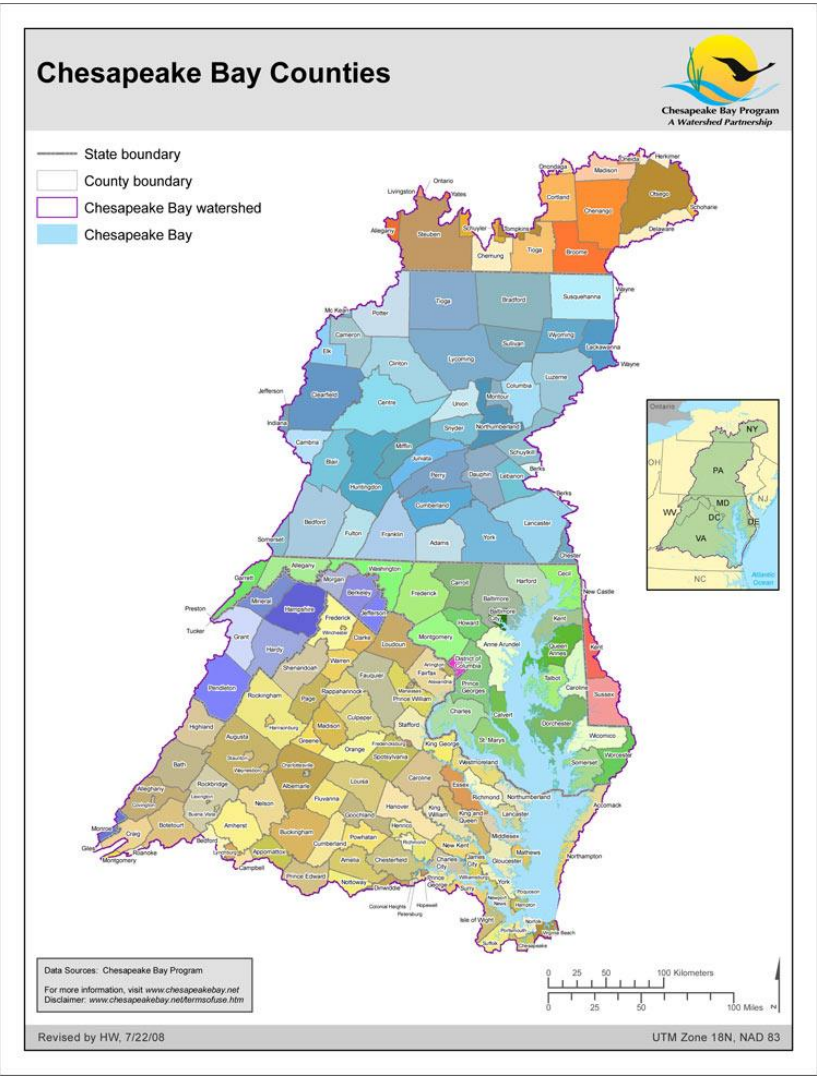
Historic Implementation Data
Conowingo
Climate Change
Nutrient Applications

Phase 6.0
Watershed Model




Water Quality GIT Updates

Local Area Targets Task Force



Professional Development

- Facilitation
- Public Speaking
- Planning/Implementation
- Conferences

What's Next?

Find a Career!

- Conservation
- Planning
- Implementation

Thank you!

Contact:
David Wood
Water Quality Goal Implementation Team Staffer
Chesapeake Research Consortium
Chesapeake Bay Program Office
Office: 410-267-5758
Cell: 443-465-4250
Wood.DavidM@epa.gov

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