

# SCIENCE & TECHNICAL ADVISORY COMMITTEE



DELAWARE CENTER FOR THE  
**INLAND BAYS**  
Research. Educate. Restore.

DATE & TIME: *March 9, 2018 -- 9:00 a.m. to noon.*

LOCATION: *DNREC Lewes Field Facility, end of Pilottown Road, Lewes*

*Meeting called by: Scott Andres, Chair*

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## MEETING AGENDA

Call to order, STAC announcements.....*Jennifer Volk, Vice-Chair*

CIB announcements .....*Marianne Walch*

Microbial Source Tracking in the Love Creek Watershed of  
Delaware's Inland Bays..... *Chris Main, DNREC*

One measurable type of potential human-related water pollution is fecal bacteria that may derive directly from humans, from the various domestic animals with which we are associated and/or from wild creatures. For well over half a century scientists have had the capability to test for the bacteria that are indigenous to the gut of warm-blooded animals and for over 30 years total Enterococcus bacteria has been widely used to indicate the presence of such in 305(b) monitoring efforts, including in Delaware. Next generation Sequencing (NGS) methods have emerged as a potential tool for bacterial source tracking, which have the potential of increasing sensitivity to distinguish between sources of fecal contamination. The Love Creek watershed has undergone extensive human development of various types in its tidal and nontidal segments, making it an excellent area for testing.

Reducing Nonpoint Source Pollution through Effective  
Ditch Management.....*Melissa Hubert, Univ. of DE*

Overtime ditch systems accumulate sediment that hinders their functionality and require excavation to restore. This study was conducted to provide a better understanding of ditch bottom sediment properties and potential impacts of major maintenance on nutrient losses.

CCMP/Monitoring Subcommittee Discussion ..... *Chris Main*

With the formation of the Monitoring subcommittee, we are looking for volunteers to oversee implantation and updates to the Center for the Inland Bays environmental monitoring program. Our first task within the subcommittee is to evaluate the effectiveness of the current model and examine any potential updates to the hydrodynamic and water quality model. A prioritized research agenda will be developed.

New Business

Adjourn

***CCMP/Monitoring Subcommittee Meeting: April 20, 2018***  
***Next Full STAC Meeting: July 27, 2018***