

Monitoring Inventory & Needs Assessment for the Delaware Estuary - Update Annual STAC-MACC Meeting, 11/18, 2020



Credit: Susan Rogozinski, Thompsons Beach, NJ

Credit: PDE, Longwood

Credit: PDE, Milford, DE

Credit: Victoria Gordon, Medford, NJ

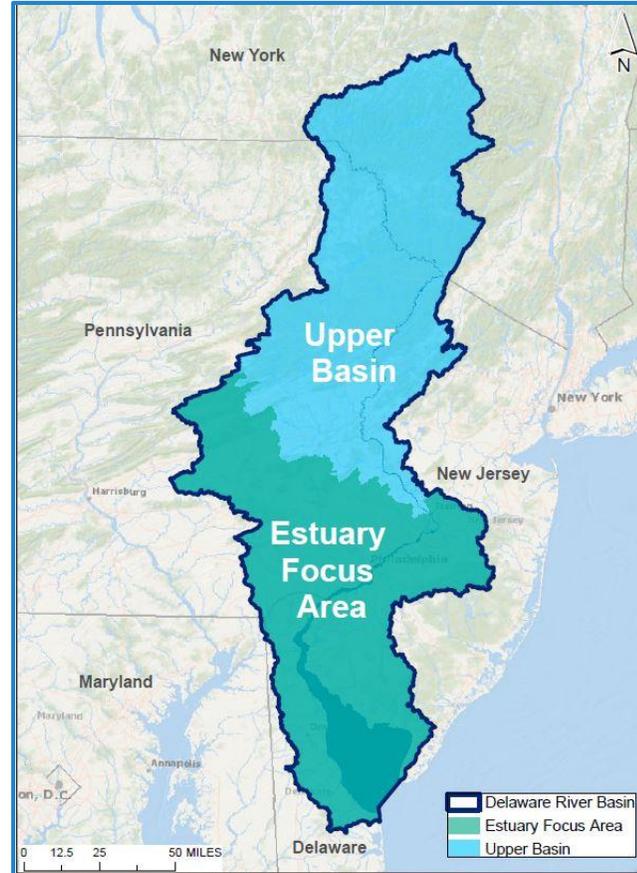
WHAT IS THE MONITORING ASSESSMENT?

Monitoring Goals for Delaware Estuary Program (DELEP)

- Inventory critical monitoring in region
- Create a list of monitoring priorities

DELEP Focus

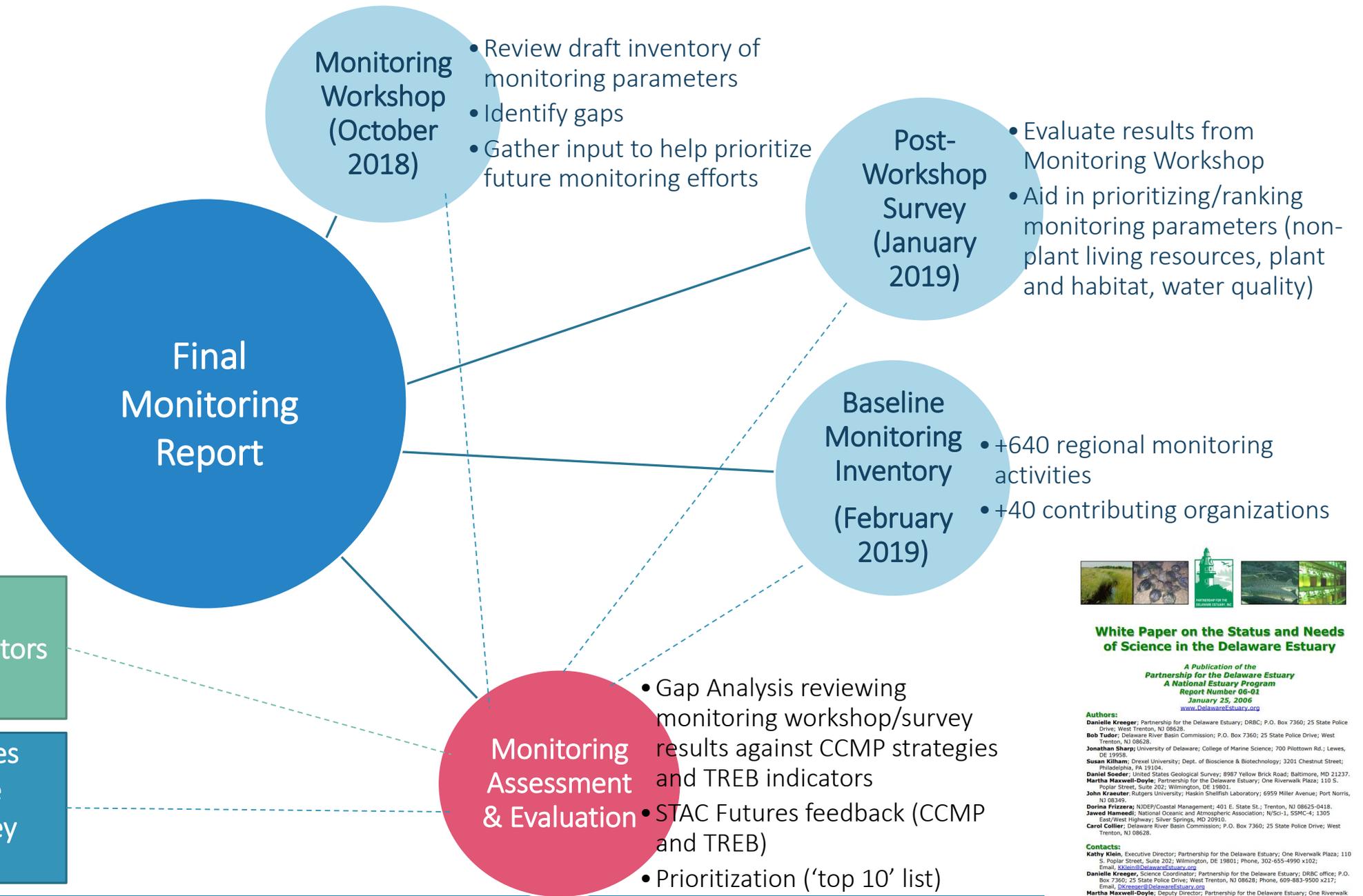
- Measures needed to track Comprehensive Conservation & Management Plan (CCMP) outcomes
- Study Region: Delaware Estuary Focus Area



Monitoring Approach in Revised CCMP (2019)

- STAC-MACC Meeting (every year)
- TREB Collaboration/State of Estuary (every 5 years)
- Monitoring Workshop (every 5 years)





White Paper on the Status and Needs of Science in the Delaware Estuary

*A Publication of the
Partnership for the Delaware Estuary
A National Estuary Program
Report Number 06-01
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www.DelawareEstuary.org*

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<http://www.delawareestuary.org/science/research/whitepapers/index.asp>

WHAT'S IN THE MONITORING INVENTORY?



Living Resources

- Animals (29)
- Vegetation (24)
- Microbiological (15)
- Biological (7)

Water

- Nutrients (118)
- Water Quality (111)
- Inorganics (81)
- Organics (79)
- Chemical/Chemistry (25)
- Toxicity (6)
- PCBs/Pesticides (4)



Habitats

- Physical (33)
- Sediment (30)
- Spatial (11)
- Hydrology (10)
- Habitat (7)
- Geology (6)
- Buffer (5)
- Atmospheric (2)



640 monitoring parameters
Submitted by **~40** organizations

MONITORING REPORT OVERVIEW

Background Information

- Delaware Estuary Watershed
- Delaware Estuary Program/National Estuary Program
- TREB Environmental Indicators
- Delaware Estuary CCMP Tracking (Performance Measures, Monitoring Approach)

Monitoring Activities & Feedback

- Inventory of Current Long-Term Monitoring Programs
- Monitoring Expert Survey Results
- Monitoring Workshop Results
- Expert Participant Recommendations

Future Monitoring Prioritization

- CCMP-TREB Action Comparison Matrix
- Gap Analysis
- Prioritization of Monitoring Parameters & Needs ('top ten' list of future monitoring needs)

Reference Documents

- Delaware Estuary Monitoring Inventory
- Monitoring Survey and Workshop Results Summary Report
- NOAA ERMA Delaware Estuary Monitoring Inventory Layer
- 2019 CCMP
- 2017 TREB

NEXT STEPS

- **PDE to complete draft report (conduct internal review)**
- **PDE to send draft report to STAC, MACC, and DELEP Estuary Implementation Committee (EIC) for technical peer review (~30 days)**
- **Timeline**
 - **Winter 2021 for peer review**
 - **Final report early-mid 2021**





Partnership for the
**DELAWARE
ESTUARY**

Let's Collaborate

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*Connecting people, science, and nature
for a healthy Delaware River and Bay*