



Chesapeake Bay Program's (CBP)
Scientific and Technical Advisory Committee (STAC)
Quarterly Meeting – September 13-14, 2022
Vandiver Inn, Havre de Grace MD

[Register for Zoom Meeting](#)

****Exact Times Are Subject to Change****

Tuesday, September 13th

- 9:30 am** **Coffee & Light Breakfast (Provided)**
- 10:00 am** **Call to Order, Introduction and Updates on STAC Activities** — *Kathy Boomer (FFAR)*
Boomer will provide an update on important STAC actions this quarter, including STAC-funded workshops and reviews, and CBP-relevant topics the Committee is active on; in particular, recent conversations at the Principals' Staff Committee meeting regarding CAST-21 fertilizer data.
- 10:20 am** **Recap of STAC June 2022 Quarterly Meeting Minutes** — *Kathy Boomer (FFAR)*
- 10:30 am** **Introduction, Chesapeake Bay Program Director** — *Kandis Boyd (EPA)*
- 10:50 am** **Comprehensive Evaluation of System Response (CESR)** — *Denice Wardrop (CRC)*
- 12:15 pm** **Lunch (provided)**
- 1:00 pm** **STAC Workshop Report Approval Process** — *Mike Runge (USGS)*
Reflection of next steps for the STAC workshop process. Discussion of changes to STAC documents: Publication Protocol, STAC Review Protocol.
- 1:15 pm** **Briefing on FY21 STAC workshop, "Assessing the Water Quality, Habitat, and Social Benefits of Green Riprap"** — *Kirk Havens (VIMS)*
- 1:40 pm** **Building Capacity in the Strategic Science and Research Framework through the Environmental Management Career Development Program**
— *Alex Gunnerson (Environmental Management Staffer with STAR, CRC)*
Alex Gunnerson (CRC) will outline how the Environmental Management Career Development Program (EMCDP) serves as one of multiple avenues for addressing and building capacity to address science needs identified in the Strategic Science and Research Framework (SSRF).
- 2:00 pm** **Science Needs of the Chesapeake Bay Program: Next Generation Stewards** —
Breck Sullivan (USGS), Outcome Leads
The Next Generation Stewards Outcome includes the Environmental Literacy Planning, Student, and Sustainable Schools Outcomes. The Cohort identifies factors influencing science during the Strategy Review System and updates their science needs as part of the Strategic Science and Research Framework. The CBP Science Needs Database can be found [here](#) and details on each outcome are listed and linked [here](#).
- 2:20 pm** **Break**
- 2:35 pm** **Conowingo Discussion** — *Kathy Boomer (FFAR), Larry Sanford (UMCES), Andy Miller (UMBC), Karl Blankenship (Bay Journal), Jeremy Testa (UMCES)*
STAC members will continue to lead the conversation on examining impacts of the Conowingo reservoir system on sediment, nutrients, and fate and transport delivery to the Bay.

- 3:15 pm** **STAC Business, Announcements** — *Kathy Boomer (STAC Chair – FFAR)*
- Member Announcements and Updates
 - Approval Requests:
 - Review and Approval of the Consent Agenda
 - New Executive Board members
 - BMP Expert Panel Update
 - 2023 Quarterly Meeting Dates
 - June 2022 Quarterly Meeting Minutes
 - July – September Executive Board Meeting Minutes
 - CBP Management Board Announcements
- 3:35 pm** **CAST-21 Fertilizer Data Discussion** — *Kathy Boomer (STAC Chair – FFAR)*
Outputs from the 'special discussion' on August 29th at the Principals' Staff Committee on the path forward for CAST-21 and recommendations for PSC consideration.
- 4:00 pm** **Table Conversations**
A series of 20-minute informal discussions relevant to Committee business.
- **4:00** **Soil Health Theme & Strategies to Share Themed Discussions**
 - **4:20** **CESR: Consider and plan a communication strategy moving forward**
 - **4:40** **Adaptive Management Framework: Implementing the single, double, triple loop learning concepts**
- 5:00 pm** **Workshop Recess**
- 5:30 pm** **Group Dinner (optional)**

Wednesday, September 14th

- 8:30 am** **Coffee & Light Breakfast (Provided)**
- 9:15 am** **Introduction to STAC Quarterly Meeting Theme: Advancing the CBP wetlands target** — *Kathy Boomer (FFAR)*
Boomer will discuss the overall objective of Day 2 – to support strengthening the technical workforce to deploy implementation funds.
The CBP community, led by the Habitat and Water Quality GITs, is focusing on the lack of collective progress toward our wetland restoration targets to ameliorate water quality concerns. On August 2nd-3rd, GIT leads convened a community workshop to initiate the development of an Action Plan to address the shortfall. The Action Plan will be presented with a request for support from the CBP Management Board at their November meeting. To support this effort, the September STAC meeting will focus on bringing the best available science forward to maximize the likelihood of the Action Plan's success. We aim to develop a unified statement of support regarding this critical initiative which could provide multiple benefits (ecosystem services) central to the CBP's restoration goals and objectives and also to highlight opportunities for beyond 2025.
- 9:30 am** **The History of Science-based Wetlands Management in the Bay Watershed**
– *Judy Denver (USGS), Greg Noe (USGS), Kirk Havens (VIMS), Solange Filoso (UMCES), Denice Wardrop (CRC)*
Panel on how far has the science come toward supporting 1) geographic targeting of most effective locations for restoration, and 2) development of a functional (or outcomes)-based framework to prioritize restorations. Followed by Q&A.
- 10:45 am** **Break**

- 11:00 am** **Summary of Outcomes from the August 2-3 CBP Meeting**
– Pam Mason (VA), Chris Guy (USFWS), Todd Lutte (USEPA), Amy Jacobs (TNC), Leon Tillman (USDA NRCS)
Emerging priorities and concerns, resulting recommendations for presentation to the Management Board, identified information gaps. Panel presentation, discussion and Q&A session with invited panelist.
- 12:00 pm** **Application of the Adaptive Management Framework — Kathy Boomer (FFAR)**
- Triple-Loop Learning Opportunity: Reflect on challenges to advancing CBP Goals through jurisdictional (state-level) targets and consider alternate strategies to advance goals through the CBP policies and structure.
 - Double-Loop Learning Opportunity: Reflect on need to advance outcomes-based wetlands restoration (and conservation) framework to address multiple objectives, including enhanced water quality, carbon and sediment sequestration, flood and drought risk abatement, temperature buffering, and improved wetland and stream habitat value for a variety of species.
 - Single-Loop Learning Opportunity:
 - Better understand barriers and challenges to wetlands bmp adoption.
 - Develop a trade-off framework for tidal and non-tidal wetlands to advance an outcomes-based approach to wetland restoration and conservation.
- 12:15 pm** **Group Discussion** of proposed action plan and key considerations, introduced by Pam Mason (VIMS)
- Capacity to advance function/outcomes-based framework for wetland restoration in tidal and non-tidal regions of the watershed
 - Need to link with a landscape approach of wetlands connected to forest buffers, edge-of-field, edge-of stream practices
 - Restored vs. enhanced or reestablished wetlands strategies
 - Recommendations for CBP Wetlands Action Plan and comments to CBP MB
 - Next steps for STAC
- 12:45 pm** **Closing Full Group Discussion: Outline of conclusions and proposed STAC actions**
- 1:00 pm** **Lunch (Provided)**
- 1:45 pm** **Adjourn**