

The State of the Science and Practice of
Stream Restoration in the Chesapeake:
Lessons Learned to Inform Better
Implementation and Assessment:
A Proposed STAC Workshop

Neely L. Law and Greg Noe

SHWG Meeting

February 18, 2022

12/1/2021

What are STAC Workshops?

- Brings the broad expertise of the scientific and technical community to bear on critical and timely issues relevant to the successful restoration of the Chesapeake Bay.



REVIEW state of science



IDENTIFY areas of research



INVESTIGATE emerging issues



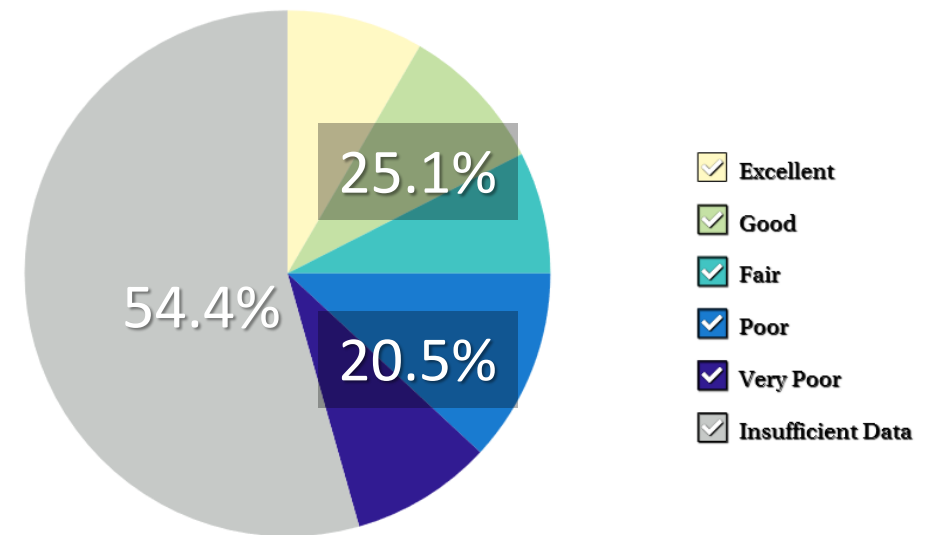
RESPONSIVE to science-based questions

STEERING COMMITTEE MEMBERS

- Greg Noe, USGS and STAC, Co-Chair
- Neely Law, Fairfax County and Stream Health Workgroup, Co-Chair
- Bill Stack / Lisa Fraley-McNeal, Center for Watershed Protection
- Joe Berg, Biohabitats
- Sadie Drescher, Chesapeake Bay Trust
- Solange Filoso, University of Maryland Center for Environmental Studies
- Paul Mayer, EPA
- Chris Ruck, Fairfax County
- Rich Starr, Ecological Planning and Restoration
- Scott Stranko, MD DNR

Chesapeake Bay Agreement Stream Health Outcome

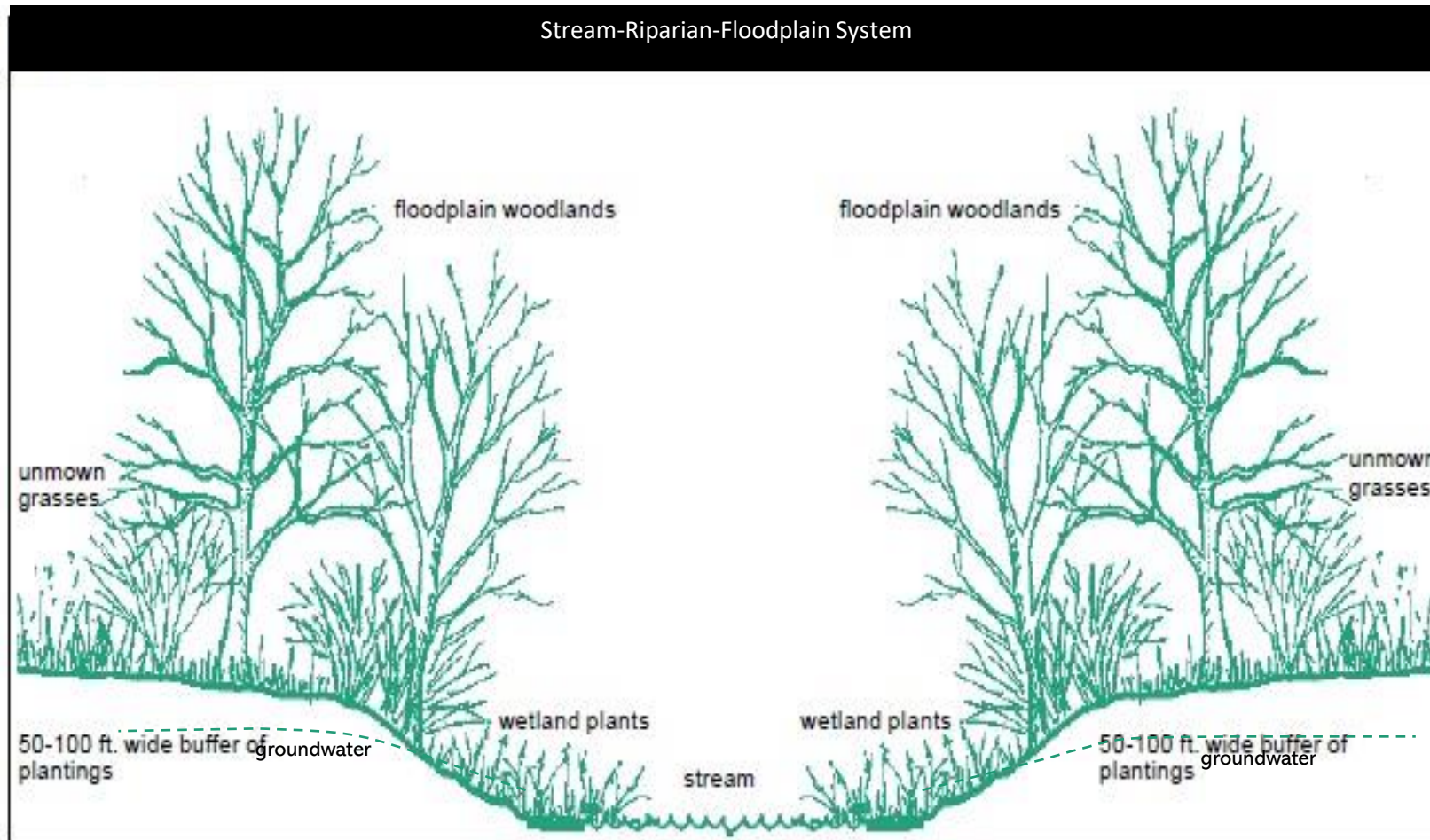
“Continually improve stream health and function throughout the watershed. Improve health and function of 10 percent of stream miles above the 2008 baseline for the Chesapeake Bay watershed.”



Stream Health (2006-2011)

Chesapeake Basin-wide Index of Biotic Integrity Subwatershed Ratings

Stream Channel & Riparian Corridor



WORKSHOP FOCUS:

- Identify the evolution of stream restoration goals, regulations, practices and practice implementation;
- Present and discuss science and assessment to document holistic impacts and outcomes; and
- Create a synthesis of the best available science, practices and monitoring to enable adaptive management.

TOPICS TO ADDRESS:

- Chesapeake Bay Watershed history and evolution of stream restoration
- Goals, Resource Tradeoffs and Unintended Consequences
- The history and influence of regulation and their impact on stream restoration design
- Restoration Outcomes and Uplift
- Stressor and Landscape/Climate Change

WORKSHOP STRUCTURE & OUTCOMES

- 2 or 2 ½ day onsite meeting (virtual as needed)
- Presentations on featured topics and questions
- Facilitated discussion and work sessions
- Workshop report within 90 days
- Peer-review publication

Proposed STAC Workshop Timeline



- Application: February 16, 2022
- Decision: March 1, 2022
- Planning: Begins December 2021 (Steering Committee)
- Workshop: Fall 2022/Spring 2023