Through the Chesapeake Bay Watershed Agreement*, the Chesapeake Bay Program has committed to…*

Goal: *Stream Health*

Outcome:

Continually improve stream health and function through the watershed. Improve health and function of ten percent of stream miles above the 2008 baseline for the watershed

What we've done

Chessie BIBI

- ICPRB released the final report in February

https://www.potomacriver.org/wp-content/uploads/2023/02/ChesWatershed-Percent-Healthy-Streams_FINAL_02-10-2023-1.pdf

Table 7. Percentages of the stream length-weighted ratings for sampled HUC12 spatial units of the Chesapeake watershed and the odds of excellent, good, or fair ratings occurring in those spatial units, by period. A total 232,866 stream kilometers in the watershed is assumed. %$_n$EGF, %EGF normalized to the watershed's total stream miles and calculated directly from the odds. See Table 3 heading for details.

Period	%E	%G	%F	%P	%VP	%Unrated	%EGF	Odds	%$_n$EGF
Pre-baseline	11.1%	13.5%	12.0%	16.4%	11.1%	35.9%	36.6%	1 in 1.752	57.1%
Baseline	17.6%	15.2%	11.2%	17.2%	10.0%	28.7%	44.0%	1 in 1.620	61.7%
First Interval	17.1%	12.7%	9.8%	11.9%	6.9%	41.5%	39.7%	1 in 1.476	67.8%
Combined	20.5%	18.5%	15.2%	21.1%	12.6%	12.1%	54.3%	1 in 1.620	61.7%

What we're doing now

Data Review and Development of Multi-Metric Stream Health Indicators

This project (Phase 3A) will begin to address the question: Following the implementation of management efforts, how is stream health changing, and how can we better characterize the response through non-biological metrics?

- 2021 GIT funded project
- Tetra Tech has completed the preliminary results
- Presented these results at the April 2023 SHWG meeting
- Focused on geomorphological and hydraulic parameters
- Future phases will include chemical parameters

What we're doing now

Literature Review: Building Climate Resilience in Stream Restoration Practices

This literature review seeks to answer the questions:

- How do common stream restoration techniques perform when faced with climate change?
- What is the long-term resiliency of stream restoration practices?

- 2022 GIT Funded Project
- RFP closed in March 2023
- Proposals are currently under review

What we're doing now

STAC Workshop

State of the science & practice of stream restoration in the Chesapeake: Lessons Learned to inform better implementation, assessment, and outcomes

- Workshop was held in March 2023
- Steering Committee will create report from STAC meeting

Stream Restoration Permitting Survey

- Survey is live
- Submissions will be accepted through May 19, 2023
- For professionals with permitting application and/or reviewing experience
- https://forms.gle/vzgSChbPSiVNPqPSA

What we will be doing

DEIJ Initiatives

- Engage with under-served, under-represented communities to increase participation in stream health concerns
- Delayed due to understaffing
- May begin this work in 2023 if there is capacity