



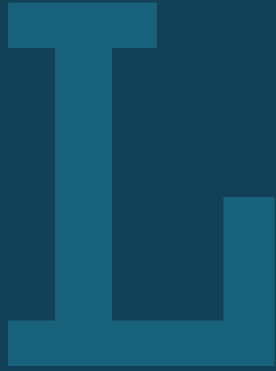
Toxic Contaminants Research Outcome

*Emily Majcher,
USGS, vice-chair Toxic
Contaminant Workgroup*

Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...

Goal: Ensure that the Bay and its rivers are free of effects of toxic contaminants on living resources and human health

Outcome: Continually increase our understanding of the impacts of and mitigation options for toxic contaminants through research.



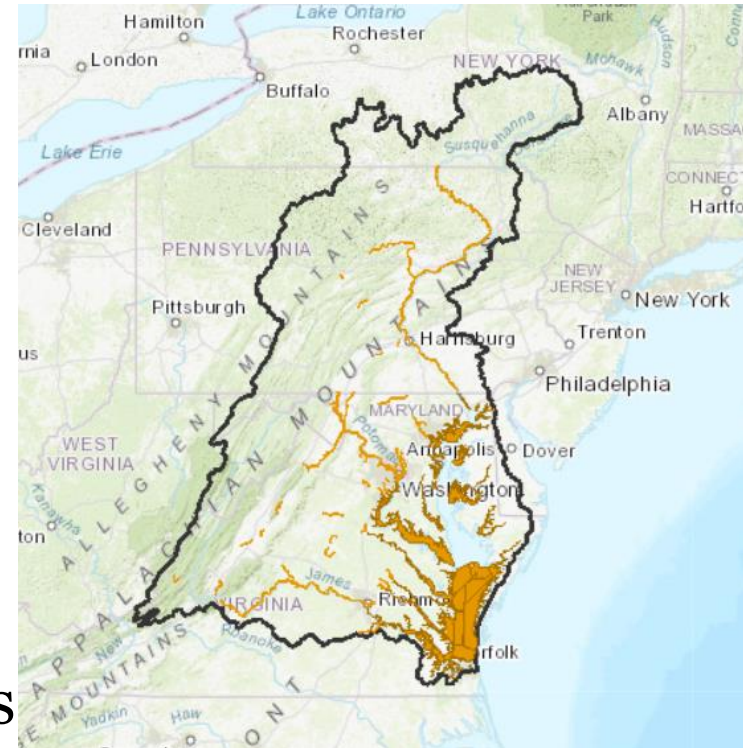
Learn

What have we learned in the last two years?



Successes and Challenges

- MA1: Supply information to make fish and shellfish safe for human consumption - **Mercury and PCBs**
 - Success: Further consideration of mercury coordinated monitoring
 - Success: Updates on PCB science (best practices source investigations)
 - Challenge: Interaction with SFGIT on fish consumption advisories/story maps





Successes and Challenges

- **MA2: Understanding the influence of contaminants in degrading the health, and contributing to mortality, of fish and wildlife**
 - Success: Effects of EDCs on fish conditions, relationships between fish health, land use, estrogenicity, risk
 - Challenge: Interfacing with SFGIT to consider contaminants in fish habitat assessments





Successes and Challenges

- **MA3: Document the occurrence, concentrations, and sources of contaminants in different landscape settings**
 - Success: PFAS inventory effort
 - Challenge: Examine the co-occurrence of toxic contaminants with nutrients and sediments to inform co-benefit analysis





Successes and Challenges

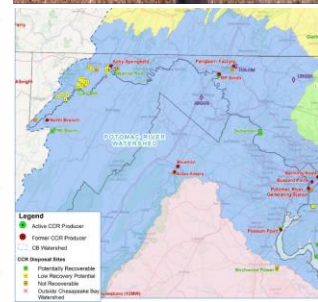
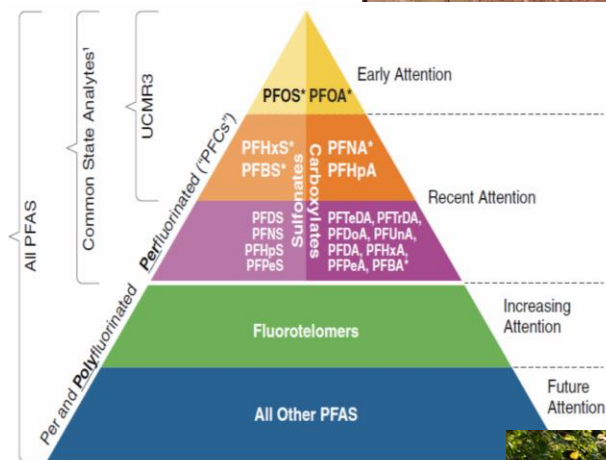
- **MA4: Science to help prioritize options for mitigation to inform policy and prevention**
 - **Success:** management relevant timelines – response to BMPs, WW source tracking
 - **Challenge:** Identifying appropriate method to link BMP science to stakeholder tools





Successes and Challenges

- **MA5:** Gather information on issues of emerging concern
 - Success: PFAS workshop
 - Success: PPAT briefing
 - Challenge: Even with reduced number of emerging issues, challenge to address all (limited transfer related to chloride/road salt)



Menti Question 1

- Given the outcomes of the TMDL roundtable, what new/addition efforts should TCW prioritize related to PCB TMDL implementation in the watershed?
 - Review summary and comparison of forthcoming PMP and source trackdown guidance documents and EPA TMDL 2.0 (including ARP)
 - Technical exchange related to science advancements including microcatchment modeling (DC) and subwatershed screening approach (MD)

Menti Question 1- cont.

- Annual TMDL roundtable update – revision to synthesis document and monitoring summaries
- Tracking and communication of lessons learned from DRBC, Delaware ARP, Anacostia Sediment Project, and other watershed restoration program cross-collaboration
- Climate implications (e.g., flooding, temperature)
- Geographically-specific collaborations and actions (e.g., Anacostia)
- Enhanced monitoring proposal to PSC

Menti Question 2

- How should TCW facilitate PFAS science and policy updates in the watershed?