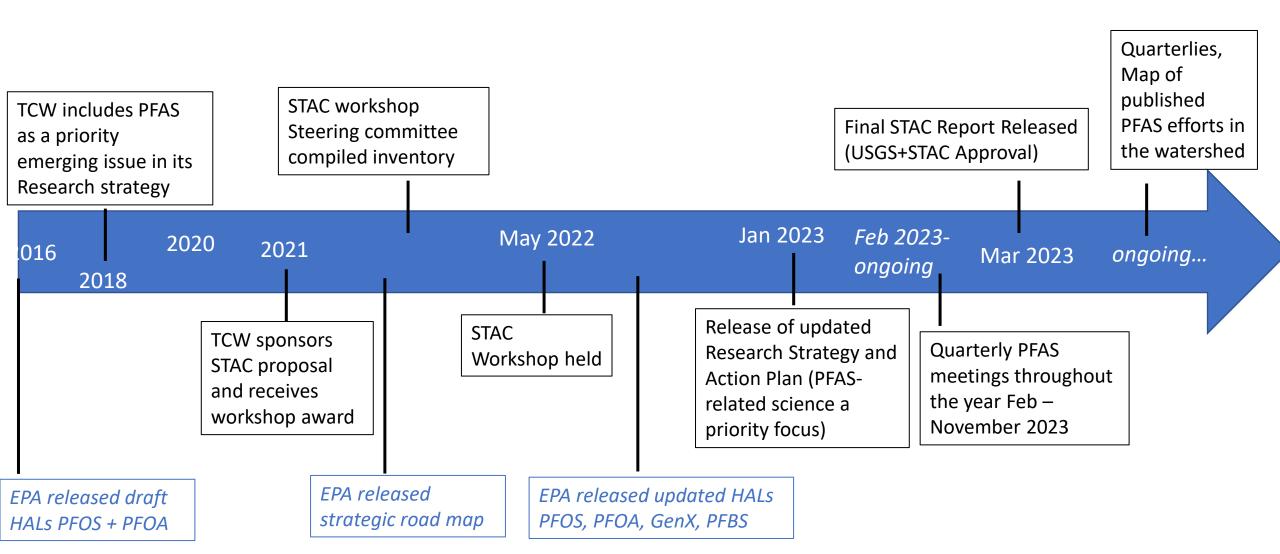
# Toxic Contaminant Workgroup PFAS Related Activities



*Improving the* Understanding and Coordination of Science Activities for PFAS in the Chesapeake Watershed-STAC Workshop



FINAL STAC-PFAS-Report-2.pdf (https://www.chesapeake.org/stac/wp-content/uploads/2023/03/FINAL\_STAC-PFAS-Report-2.pdfchesapeake.org)

# **High priority science needs** from Improving the Understanding and Coordination of Science Activities for PFAS in the Chesapeake Watershed

#### **Urgent, short-term**

- ✓ Temporal and spatial assessment in tributaries
- ✓ Coupled fish and surface water sampling

#### **Near- to mid-term**

- ✓ Land-use impacts.
- ✓ Biological effects are low concentrations.
- ✓ Movement through the food web.

#### **Near-term**

- ✓ Regionally uniform approach for consumption advisories.
- ✓ Effects on different life-stages of fisheries.

#### **Long-term**

- ✓ Multiple stressor studies
- ✓ Non-lethal toxicity with emphasis on long term exposures
- ✓ Interface between water and land.



#### **Study Design and Approaches**

- Consider a monitoring network and uniform approaches to directly assess PFAS.
- Design studies that relate PFAS occurrence and effects in different landuse settings.

#### **Consistency in Data Collection**

- Develop and adopt similar methods to better compare data among studies.
- Collect standardized data for ecological risk assessments across a range of species to better protect aquatic resources.

Actionable Recommendations from Improving the Understanding and Coordination of Science Activities for PFAS in the Chesapeake Watershed

#### **Communicate and Collaborate**

- Enhance integration to facilitate broad coordination across the Watershed.
- Collaborate amongst jurisdictions to develop data needs for fish consumption advisories.



We face common challenges in a rapidly evolving, complex topic...

# Objectives of quarterly meetings include:

- Knowledge transfer
- Maximize leveraging and collaboration
- Discuss and identify priority areas for unified approaches across the watershed
- Identify tangible ways the CBP partnership (TCW) can assist with promoting consistency



# Quarterly PFAS Meetings within TCW 2023

### **Priority topics**

- Working towards common analytical and field methods and approaches
- Development of fish consumption advisories and aquatic species criteria
- Improving our understanding of landapplied biosolids
- Tools and monitoring to inform source assessment

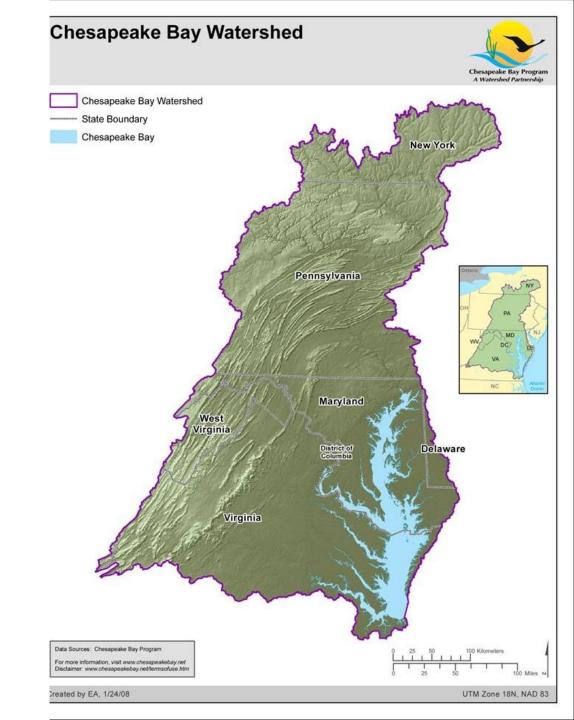
## Outcomes/Actions from

Working towards common analytical and field methods and approaches

- Inventory of SAP/QAPP methods for CBW
- Decision trees for method selection based on study objectives
- Method variability documentation (same analytes different methods, same methods different labs)
- Facilitate partnering opportunities for nontargeted methods with academia or other researchers

## PFAS Quarterlies 2024

- Follow up from 2023 meeting topics?
  - FCA development
  - Agriculture
- Data interpretation tips, including QC
- Capacity building
  - Exploring EPA ORD collaboration (ROAR funding)
  - Exploring Small disadvantaged communities –
     Emerging contaminants (SDC-EC) funds regional source water study
  - Leveraging academic/federal collaborations
- Discussions and lessons to be learned from other watersheds (for example DRB, CRB) and researchers from outside the watershed (ORD, academic)



Take Aways and Next Steps

- Meetings in 2024
- Beyond 2025 considerations?



"The current circumstance of numerous scientific gaps, common to many jurisdictions across the Chesapeake Bay Watershed, presents a unique opportunity to pool resources, streamline methods and approaches, and share findings. "