



Chesapeake Bay Program's (CBP)
Scientific and Technical Advisory Committee (STAC) Workshop

**Using Local Monitoring Results to Inform the
Chesapeake Bay Program's Watershed Model**

March 7-8, 2023

[Workshop Webpage](#)

[Northern Virginia Regional Commission](#) | Fairfax, VA

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

This meeting will be recorded to assure the accuracy of meeting notes.

Objectives:

1. Identify current monitoring data that can be used to inform watershed model processes under Phase 7 of the model
2. Determine how representative the monitoring data is of watershed-wide conditions
3. Determine if any additional analyses of existing data would make it useful for informing the watershed model
4. Identify potential changes to current local monitoring programs that would make their data more useful for informing watershed model updates in the future

Tuesday, March 7th, 2023

- 8:30 am** **Coffee & Light Breakfast (Provided)**
- 9:00 am** **Workshop Overview (Steering Committee Presenter) – Rachel Tardiff, facilitator**
- 9:20 am** **Watershed Model Framework: What Knowledge is Needed – Gary Shenk (USGS)**
- 10:00 am** **Chesapeake Bay Program Showcase Watersheds (Ag) – Jimmy Webber (USGS)**
Data on hydrology, nutrient and sediment loads and concentrations in selected watersheds.
- 10:40 am** **Break**
- 10:50 am** **Hampton Roads (Urban) – Aaron Porter (USGS)**
Data on hydrology, nutrient and sediment loads and concentrations in selected watersheds.
- 11:20 am** **Fairfax (Urban) – Aaron Porter (USGS), Jimmy Webber (USGS)**
Data on hydrology, nutrient and sediment loads and concentrations in selected watersheds.
- 11:50 am** **Gwynns Falls (Urban) – Jon Duncan (Penn State), Claire Welty (UMBC)**
Data on hydrology, nutrient and sediment loads and concentrations in selected watersheds.
- 12:20 pm** **Lunch (provided)**
- 1:10 pm** **Mahantango Creek (Ag) – Tony Buda (USDA ARS)**
Data on hydrology, nutrient and sediment loads and concentrations in selected watersheds.
- 1:40 pm** **NC Piedmont Nutrient Study (Urban)**
– Joseph Delesantro (Penn State), Jon Duncan (Penn State)
Grab sampling (n=37) and continuous monitoring (n=5) of hydrology, nutrient loads and concentrations across representative catchments selected by geospatial analysis of watershed composition and structure.

- 2:10 pm** **Atlanta-Area Piedmont Watersheds (Urban)** – *Brent Aulenbach (USGS)*
Hydrology and stream water-quality concentrations and loads from 30 suburban to urban watersheds in the Atlanta-area. Spatial and temporal relations between hydrology, water-quality, and watershed characteristics.
- 2:40 pm** **Q&A on Presentations** – *Rachel Tardiff, facilitator*
- 3:00 pm** **Break**
- 3:15 pm** **Plenary Breakout Instructions** – *Rachel Tardiff, facilitator*
- 3:25 pm** **Breakout Groups** – *led by Steering committee member(s)*
The goal of the breakouts is to develop recommendations for how the Bay Program modeling team can use current local monitoring information and how local monitoring programs could be modified to better inform model processes in the future.
- Breakout kick-off to address key workshop goals:
1. What current monitoring data can be used to inform watershed model processes?
 2. How representative of watershed-wide conditions is this data?
 3. What additional analyses of existing monitoring data would allow it to be generalized across the Chesapeake watershed?
 4. What changes to existing monitoring programs would make their data more useful for informing watershed model processes in the future?
- Each breakout will have two chairs who will lead and facilitate discussion, and a notetaker. The chairs will be responsible for writing up the recommendations section of the workshop report. The goal of the afternoon is for each breakout to produce 2 items:
1. List of draft recommendations, with focus on the top consensus priorities
 2. Longer list of thoughts and notes from discussion, for inclusion in workshop report
- 4:45 pm** **Plenary Check-in & preview Day 2**
- 5:00 pm** **Recess**
- 6:00 pm** **Group Dinner (Optional)**



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Wednesday, March 8th, 2023

8:30 am **Coffee & Light Breakfast (Provided)**

8:50 am **Review of Day 1; Objectives for Day 2 – Steering committee member**
The early morning break-out session will focus on each breakout group reaching consensus on their recommendations.

9:00 am **Continued Breakout Discussions**
Breakout groups reach consensus on their recommendations for answering the workshop's goals that can be communicated to the plenary group on a set of presentation slides. Begin work on longer descriptions of draft recommendations.

10:15 am **15-minute break**

10:30 am **Plenary Presentation of Breakout Proposals – led by Steering committee member**
20-minutes per breakout. All participants will reconvene and breakout group leaders will briefly present their recommendation slides.

11:30 am **Lunch (provided)**

12:00 pm **Group Discussion: Report recommendations – Steering Committee**
Breakout group leaders and Steering Committee members will meet to reconcile the recommendations from each breakout group in a facilitated discussion. A final set of recommendations for incorporation in a final report will be produced. The longer descriptions of thoughts from each breakout group will subsequently be captured in the final report on the workshop.

1:40 pm **Workshop Wrap-up and Next Steps – led by a Steering committee member**
The workshop steering committee will synthesize workshop findings and recommendations provided by participants.

2:00 pm **Workshop Adjourns**

2:00 pm **Steering Committee Meets**