

Chesapeake Bay Program Partnership Requests for STAC Sponsored Independent Scientific Peer Reviews: 2014-2016

**CBP Partnership Scientific and Technical Advisory
Committee Meeting
March 11, 2015**



Chesapeake Bay Program
A Watershed Partnership

Setting the Stage

- EPA provided funding a for a 3rd full time STAC staff position in recognition of the forthcoming requests for peer reviews
- The 2017 Bay TMDL Midpoint Assessment is the driver, multiplied by the dual focus on enhancing the full suite of Partnership models and explaining trends in the observed monitoring data
- Working directly with the old/new CRC Executive Directors, STAC staff and STAC Chair, the original list of asks have been streamlined/combined to conduct all the needed reviews but with a bit less number of panels
- Peer reviews saved our bacon in the Bay TMDL lawsuits!

Requested Peer Reviews

- June 2014: Corp's of Engineers Draft Lower Susquehanna River Watershed Assessment
- April 2015: 2015 Chesapeake Bay Criteria Addendum
- June 2015: Proposed revised James River chlorophyll a water quality criteria
- July 2015: Early sequence of reviews setting the stage for the watershed and estuarine model reviews in early 2016
 - Chesapeake Bay Land Use-Based Loading Rates
 - Chesapeake Bay Atmospheric Deposition Regression Model
 - Chesapeake Bay Scenario Builder

Requested Peer Reviews

- Sept 2015: Application of the General Additive Models (GAMs) to estuarine WQ trend analysis and explanations
- Oct 2015: Application of WRTDS to watershed WQ trend analysis and explanations
- Jan 2016: Chesapeake Bay Water Quality/Sediment Transport Model, including:
 - Shallow water model
 - Climate change simulation enhancements
 - James River estuarine water quality/harmful algal blooms model (including proposed approach to linking with the CBP WQSTM)

Requested Peer Reviews

- Feb 2016: Phase 6 Chesapeake Bay Watershed Model, including:
 - Chesapeake Assessment Scenario Tool (CAST)
 - James River watershed model
- June 2016: Approach being taken to factor climate change considerations into the 2017 Chesapeake Bay TMDL Midpoint Assessment

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