



## **Modeling Quarterly Review Meeting** **Watershed Modeling**

October 4, 2016

CBPO Conference Room - The Fish Shack  
410 Severn Avenue Annapolis, MD 21403

**For Remote Access:**

**Adobe Connect:** <https://epawebconferencing.acms.com/modeling> (enter as guest)

**Conference Line:** (866)-299-3188 **Code:** 410-267-5731

**Event webpage:** <http://www.chesapeakebay.net/calendar/event/24281>

**10:00 Announcements and Amendments to the Agenda – Dave Montali, WVDEP and Lee Currey, MDE**

**10:05 Phase 6 Watershed Model Schedule Update – Lee Currey, MDE and Dave Montali, WVDEP**

Lee and Dave will present an updated Phase 6 development schedule with links to the 2017 Midpoint Assessment schedule and the WQSTM and PSC schedules. Upcoming *Beta* releases of Phase 6 with their schedules, as well as the scheduled peer review of the Phase 6 Model, will be discussed.

**10:30 Summary of Phase 6 Progress Over Last Quarter - Gary Shenk, USGS and Gopal Bhatt, PSU**

The overall progress of the Phase 6 Model including the collection of final inputs for *Beta* 4 and the application of *Beta* 3 to climate change and Conowingo infill analyses.

**10:40 Application of the *Beta* 3 Calibration to Climate Change Analysis – Gopal Bhatt, PSU, Kyle Hinson, CRC, and Gary Shenk, USGS**

The Phase 6 *Beta* 3 application to climate change analysis for the year 2025 using trends derived from an 87 year record of precipitation in the Chesapeake watershed will be reviewed with respect to how attainment of water quality standards change under the estimated 2025 loads. In addition, refinements to a scoping scenario of 2050 estimated climate change impacts in the Chesapeake watershed will be presented.

**11:30 Technical Aspects of Factoring Conowingo Infill Analyses Into Phase III Watershed Implementation Plans – Lee Currey, MDE**

Approaches to the qualification of Conowingo infill's influence on Phase III WIPs will be presented.

**12:00 LUNCH**

**12:30 Application of the *Beta 3* Calibration to Conowingo Infill Analysis – Gopal Bhatt, PSU and Gary Shenk, USGS**

The application of Phase 6 *Beta 3* to Conowingo infill analysis with representation of estimated loads from an infilled condition Conowingo scour under moderate high flow and load conditions seasons will be presented. An initial estimate of the influence on Chesapeake water quality will also be examined.

**1:00 Visualization of Key Phase 6 *Beta 3* Scenarios and of Phase 6 Model Inputs – John Wolf, USGS and Olivia Devereux, Devereux Consulting**

A visualization of watershed loads from key scenarios of No Action, 1985 Progress, 1995 Progress, 2005 Progress, 2015 Progress, Estimated TMDL Loads (2025 est.), E3, and All Forest will be presented. Ideas for how to best represent these key scenarios as we finalize the Phase 6 Model will be discussed and well as ideas for how to best visualize, on a two-track strategy for both decision makers and the general public, the modeling findings on climate change and Conowingo infill. In addition, a visualization product for examination of Phase 6 input loads of all types and at several spatial scales will be demonstrated.

**1:40 Estimating Sediment and Nutrient Fluxes from Floodplains and Streambanks Across the Chesapeake Watershed – Greg Noe, USGS and Peter Claggett, USGS**

Initial estimates of bank and flood plain nutrient and sediment loads that will be used in the Phase 6 *Beta 4* calibration will be presented.

**2:20 Expanded and Improved Estimates of Nitrogen Wet Deposition Loads – Jeff Grimm, PSU**

Jeff will review the final refined assessment of hourly wet deposition estimates from 1985 to the present and provide a schedule for the final report.

**3:00 ADJOURN**