

Meeting Agenda

Water Quality Goal Implementation Team Meeting

Meeting Theme: Getting Ready for Development of the Phase III WIP Planning Targets

October 24 – 25, 2016 / Hershey Lodge, PA

Room: Wild Rose A/B

Conference Line: 866-299-3188; Code: 410-267-5731

Adobe Connect: <http://epawebconferencing.acms.com/waterqualitygit/>

Day 1: Monday, October 24, 2016

10:00 am – 10:20 am	<p>Welcome, Introductions, & Setting the Stage</p> <p>Presentation of the upcoming decisions to be made through spring 2017 and decisions to be made during the course of this two-day meeting.</p> <p>Decision: By the end of the meeting, agreement on upcoming decisions and the timing of those decisions.</p> <p>Materials:</p> <ul style="list-style-type: none">• Attachment A.1: 2016-2019 month-by-month schedule of Midpoint Assessment decisions organized by Water Quality Goal Implementation Team (WQGIT), Management Board, and Principals' Staff Committee conference call and meeting dates• Attachment A.2: Midpoint Assessment Outlook Calendar	<p>Dana Aunkst, Deputy Secretary of Water Programs, PADEP</p> <p>James Davis-Martin, WQGIT Chair</p>
10:20 am – 11:00 am	<p>Phase III WIP Planning Targets Methodology</p> <p>Outline of the proposed Phase III Watershed Implementation Plans (WIP) planning targets methodology, highlighting where the Partnership could consider making further refinements to reflect new data, information and insights since Partnership development of the 2010 Chesapeake Bay TMDL.</p> <p>Materials:</p> <ul style="list-style-type: none">• Attachment B.1: Proposed Phase III WIP planning targets methodology briefing paper• Attachment B.2: Supporting presentation• Attachment B.3: Phase III WIP base year briefing paper	<p>Dave Montali, Modeling Workgroup Co-Chair</p> <p>Lee Currey, Modeling Workgroup Co-Chair</p>
11:00 am – 12:00 pm	<p>Findings from Running of Initial Ranging Scenarios Through the Watershed and Bay WQ Models</p> <ul style="list-style-type: none">• Presentation and discussion of a subset of preliminary scenarios through the most recent Beta versions of the Partnership's Phase 6 Watershed Model and Bay Water Quality/Sediment Transport Model. These	<p>Gary Shenk, Phase 6 Watershed Model Team Leader</p> <p>Lew Linker, CBP Modeling Coordinator</p>

Meeting Agenda

preliminary scenarios are intended for discussion purposes only and demonstrate incremental progress towards later iterations of the Phase 6 Modeling tools.

John Wolf, CBPO GIS Team Leader
Olivia Devereux, CBP Scenario Builder Team

- Discussion of how we can use forthcoming decision support tools and data visualization capabilities, including the WQGIT's requested tool to visualize Phase 6 Watershed Model input data, to support model review and development of the draft Phase III WIPs.

Decisions: 1) Agreement on follow through actions in response to preliminary scenarios. 2) Agreement on plans and schedule for better visualizing model scenario outputs from the full suite of Partnership models. 3) Agreement on needs, next steps, and respective timelines for completing the development of tools.

Materials:

- **Attachment C.1:** Briefing paper describing preliminary scenarios and recommended follow through actions
- **Attachment C.2:** Briefing paper describing the Phase 6 Watershed Model data input visualization tool
- **Attachment C.3:** Preliminary scenarios supporting presentation
- **Attachment C.4:** Data Input Visualization tool supporting presentation

12:00 pm – 1:00 pm	<p>LUNCH</p> <p>Group picture right before breaking for lunch</p>	Location: Empire A/B
1:00 pm – 2:30 pm	<p>Understanding the Effect of the Conowingo Dam and Reservoir on Bay Water Quality</p> <p>Briefing on the Bay scientific community's current understanding of what has and is happening as loads from the Susquehanna River watershed work their way through the lower Susquehanna River dams and into the upper Chesapeake Bay. Overview of the proposed Conowingo modeling approach using the Partnership's Phase 6 Chesapeake Bay Watershed Model and Chesapeake Bay Water Quality/Sediment Transport Model to fully quantify how much additional nutrient and sediment loads need to be addressed. Discussion of the WQGIT's recommendations to the Management Board.</p> <p>Decisions: 1) Agreement that we have an understandable story to tell about the effect of the Conowingo Dam and Reservoir on Bay water quality. 2) Agreement on the proposed Conowingo modeling approach to yield updated estimates of the additional nutrient and sediment loads which need to be addressed by spring 2017. 3) Agreement on WQGIT's recommendations to the Management Board regarding the assignment of responsibility for how to fully address the additional nutrient and sediment loads coming</p>	<p>Lee Currey, Modeling Workgroup Co-Chair</p> <p>Dave Montali, Modeling Workgroup Co-Chair</p> <p>Bruce Michael, MD DNR</p>

Meeting Agenda

over Conowingo Dam due to the Conowingo Reservoir reaching its capacity to trap nutrients and sediments.

Materials:

- **Attachment D.1:** Conowingo Infill Briefing paper
- **Attachment D.2:** Conowingo Infill Supporting presentation
- **Attachment D.3:** On-line access to the recorded September 2016 Conowingo webinar (webinar slides).

2:30 pm – 2:40 pm

Break

2:40 pm – 3:45 pm

Base Conditions for Phase III WIPs

Discussion of using 2025 forecasted conditions as the basis on which to develop the jurisdictions' Phase III WIPs; how forecasts are developed and what might cause them to change; updating forecasted conditions every two years; and factoring in the updated forecasted new pollutant loads into the jurisdictions' 2-year milestones; base conditions for annual progress; consideration of alternatives: 2010, 2014, 2017, 2025

Decision: Agreement on the proposed approach for reaching a Partnership decision in spring 2017 on which base conditions to use in the Phase III WIPs.

Materials:

- **Attachment E.1:** Presentation slides outlining the alternatives for base conditions with pros and cons for each

Peter Claggett, CBP Land Use Workgroup Coordinator

Karl Berger, CBP Land Use Workgroup Chair

Jeff Sweeney, EPA, CBPO Implementation Evaluation Team Leader

3:45 pm- 4:45 pm

Expanding the Role of Observed Monitoring Trends in Development of the Phase III WIP Planning Targets

This session will preview available monitoring results and planned products that are being prepared to support WIP planning. We will discuss strategies for bringing these results to jurisdictional representatives. We will discuss priorities for explanation of monitoring trends, including timing and format. In addition, we will discuss how to better visualize long term monitoring trends and supporting data in order to better inform the development and optimization of the Phase III WIPs.

Decisions: 1) Agreement on the proposed process for incremental sharing of explanation of observed watershed and tidal water monitoring trends at 6-month intervals. 2) Agreement on how to better meet the monitoring trend explanation expectations of the partners. 3) Agreement on plans and schedule for better visualizing trends and the supporting data in a way that can better inform the development and optimization of the Phase III WIPs.

Materials:

- **Attachment F.1:** Briefing paper outlining proposed updates of the explanation of watershed and tidal waters observed monitoring trends in 6-month increments

Joel Blomquist, STAR ITAT Co-Chair

Doug Moyer, USGS

Jeni Keisman, STAR ITAT Coordinator

John Wolf, CBPO GIS Team Leader

Meeting Agenda

- **Attachment F.2:** Supporting presentation

4:45 pm – 5:00 pm	Wrap-up and Adjourn	Teresa Koon, WQGIT Vice-Chair
6:00 pm – 7:00 pm	Dinner	Location: Crystal A
7:00 pm - ??	Social Gathering	The Bear's Den

Meeting Agenda

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Day 2: Tuesday, October 25, 2016

7:30 am – 8:30 am	Breakfast	Location: Crystal A
8:30 am – 10:00 am	What are Our Options for Factoring in Consideration of Climate Change into the Phase III WIPs Overview of proposed climate change assessment procedures to yield quantification of forecast effects of climate change on watershed hydrology and loads as well as estuarine water quality. Brief review of recent, preliminary climate change model analyses for sea level rise projections, projected changes in water column temperatures, estimates for wetland inundation, and the changes in the climatology and hydrology in the watershed presented through the October webinar. Presentation and discussion of options for when and how to factor climate change considerations into the Phase III WIPs. Decisions: 1) Agreement to present the proposed climate change assessment procedures, including whether to use a 2025 or 2050 climate change projection to guide the future work of the Climate Resiliency Workgroup, as the WQGIT's recommendations to the Management Board. 2) Agreement on the ranges of options for when and how to factor climate change considerations into the Phase III WIPs with decisions in spring 2017 informed by the outcomes of the proposed climate change assessment procedures. 3) Agreement on next steps, timeline and upcoming climate change related Partnership decisions. Materials: <ul style="list-style-type: none">• Attachment G.1: Briefing paper describing alternatives for when and how to factor climate change considerations into the Phase III WIPs with pros and cons of each.• Attachment G.2: Climate Change Supporting Presentation.	Mark Bennett, Climate Resiliency Workgroup Co-Chair Zoë Johnson, CBP Climate Resiliency Workgroup Coordinator Lew Linker, CBP Modeling Workgroup Coordinator

Meeting Agenda

- **Attachment G.3:** Webinar slides from October 2016 climate change webinar
- **Attachment G.4:** Briefing paper describing proposed climate change assessment procedures with supporting presentation as well as

10:00 am – 10:30 am	<p>Partnership’s Local Area Planning Targets Task Force’s Preliminary Recommendations</p> <p>Presentation and discussion of the Partnership’s Local Area Planning Targets Task Force’s status, and their preliminary discussions on (1) whether to establish local area planning targets and (2) options for expressing local area targets in the jurisdictions’ Phase III WIPs.</p> <p>Decision: Agreement on next steps, timeline and upcoming Partnership decisions in regards to the work of and recommendations from the Partnership’s Local Area Planning Targets Task Force.</p> <p>Materials:</p> <ul style="list-style-type: none">• Attachment H.1: Preliminary Local Area Planning Goals Task Force Recommendations• Attachment H.2: Supporting presentation	<p>Joan Salvati, LAPT TF Co-Chair</p> <p>Lisa Schaefer, LAPT TF Co-Chair</p>
10:30 am – 10:45 am	Break	
10:45 am – 12:00 pm	<p>Options for Addressing BMP Expert Panel Reports Beyond Phase 6 Model Deadlines</p> <p>Discussion of options for how and when to incorporate approved BMP expert panel report recommendations that were not approved prior to the September 30th deadline for all Phase 6 Model inputs.</p> <p>Decision: 1) Approval of the Phase 6 Nutrient Management Expert Panel report; 2) Agreement on next steps, timeline and method for incorporating Partnership-approved BMP expert panel report recommendations into the Phase 6 modeling tools past the September 30th deadline.</p> <p>Materials:</p> <ul style="list-style-type: none">• Attachment I.1: Briefing paper with BMP expert panel status updates• Attachment I.2: Phase 6 Nutrient Management Expert Panel report (tracked changes version)• Attachment I.3: Phase 6 Nutrient Management Expert Panel report (clean version)• Attachment I.4: Supporting presentation	<p>James Davis-Martin, WQGIT Chair</p> <p>Lucinda Power, CBP WQGIT Coordinator</p> <p>Frank Coale, Phase 6 Nutrient Management Panel Chair</p>

Meeting Agenda

12:00 pm – 1:00 pm	Lunch	Location: Crystal A
1:00 pm – 2:30 pm	Phase III WIP Planning Targets Methodology Discussion to reach agreement on the proposed Phase III WIP planning targets methodology, including where the Partnership could consider making further refinements to reflect new data, information and insights since Partnership development of the 2010 Chesapeake Bay TMDL. Decision: 1) Approval of the updated E3 and no action scenario levels of implementation definitions as proposed by the WQGIT's source sector workgroups. 2) Agreement on WQGIT's recommendations to the Management Board regarding the proposed Phase III WIP planning targets methodology and the base year for setting the planning targets as refined/amended by the WQGIT. Materials: <ul style="list-style-type: none">• Attachment J.1: Proposed Agriculture E3 Scenario• Attachment J.2: Proposed Urban E3 Scenario• Attachment J.3: Proposed Wastewater E3 Scenario• Attachment B1-3: Phase III WIP Planning Target Methodology Briefing Materials	Lee Currey, Modeling Workgroup Co-Chair Dave Montali, Modeling Workgroup Co-Chair Gary Shenk, Phase 6 Watershed Model Team Leader Lew Linker, CBP Modeling Coordinator Mark Dubin, CBP Agriculture Workgroup Coordinator Norm Goulet, CBP Urban Stormwater Workgroup Chair Tanya Spano, CBP Wastewater Treatment Workgroup Chair
2:30 pm – 3:00 pm	Work Planning and Decision Making Schedule through May 2017 (and Beyond): Follow-up and Wrap-up Review of the schedule of meetings, conference calls, and decisions leading up to the proposed May 2017 Principals' Staff Committee retreat, factoring in discussions, agreements, and timelines discussed during the past two days. Overview of key decisions, action items and next steps agreed to during the meeting. Final thoughts and reactions from WQGIT members, workgroup chairs, and Partnership advisors. Decision: Agreement on the overall 2016-2019 Midpoint Assessment decision organized by conference call and meeting dates as amended to reflect decisions during the two-day meeting. Materials: <ul style="list-style-type: none">• Attachment A.1: 2016-2019 month-by-month schedule of Midpoint Assessment decisions organized by Water Quality Goal Implementation Team, Management Board, and Principals' Staff Committee conference call and meeting dates	James Davis-Martin, WQGIT Chair Teresa Koon, WQGIT Vice-Chair
3:00 pm	Adjourn	
