



Model and Scenario Schedule

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Watershed Technical Workgroup Meeting
November 7, 2019





Watershed Technical Workgroup

Agenda

- 10:00 AM – Introductions and Announcements – Jeff Sweeney, EPA
 - Ted Tesler stepping down from his role as Chair of the WTWG so looking for nominations
 - Continuing request for data related to the benefits of the Volkswagen Settlement
 - Decisions requested: Approval of the October meeting minutes
- 10:10 AM – Stream Restoration Prevented Sediment Memo – David Wood, CSN
- 10:40 AM – Cleaning Up Redundant Data in NEIEN Submissions – Group Discussion
- 11:00 AM – Ongoing Reminders about Model Scenarios, Development of CAST 2019, and BMP Verification – Jeff Sweeney, EPA
- 11:15 AM – Adjourn
- Next meeting: December 5th, 2019 from 10:00 AM – 12:00 PM



Model-Related Schedule

Phase 3 WIPs

- EPA is currently reviewing Phase 3 WIPs and evaluations will be coming out in December, 2019



Model-Related Schedule

2019 Progress

- September, 2019: Jurisdictions encouraged to begin submitting their BMP implementation data to NEIEN.
- December 2, 2019: QA/QC'd final data to be submitted by jurisdictions for 2019 Progress scenario, including any updates to BMP Verification Program Plans describing new data sources and changes to methods of tracking to CBPO.
- January 15, 2020: Jurisdictions submit final progress for 2018-2019 programmatic milestones to EPA.
- February 8, 2020: CBPO finalizes 2019 Progress model assessment. Jurisdictions finalize BMP Verification Program Plans.



Model-Related Schedule 2020–2021 Milestone Period

- There will be two versions of 2019 Progress
 - One to finish the 2018–2019 Milestone period – current CAST
 - One to begin the 2020–2021 Milestone period with new methods and data; historic progress scenarios will be rerun



Model-Related Schedule 2020–2021 Milestone Period

- November 1, 2019: Final changes to modeling tools provided on CAST for use during the 2020-2021 Milestone period.



Model-Related Schedule

2020–2021 Milestone Period

- At the 10/17/19 Management Board meeting, consideration was given to removing numeric Milestone plans from the schedule and focus on programmatic Milestones (including EPA review) + continued annual tracking of progress toward WIP goals. Proposal would need approval through PSC.
- For background:
 - https://www.chesapeakebay.net/channel_files/29907/ii.c.1.2019_10_15_numeric_milestones_pro_con_list.pdf
 - https://www.chesapeakebay.net/channel_files/29907/ii.c.2.2019_10_16_draft_milestone_schedule.pdf
 - [https://www.chesapeakebay.net/channel_files/29907/ii.cb_fmemoonbmp_milestones_\(002\).pdf](https://www.chesapeakebay.net/channel_files/29907/ii.cb_fmemoonbmp_milestones_(002).pdf)



Model-Related Schedule

CAST 2019

1. ~~Final number for other haylage; grass silage, etc. Nitrogen fixation~~
2. ~~2019, 2020 permitted acres (harvested forest and construction), can also update 2013-2018~~
3. ~~AFO/CAFO splits for 2019+, can also update 2013-2018~~
4. ~~Land policy land uses for land policy BMPs~~
5. Land use and septic data under review (Land Use Workgroup)
 - Update Phase III WIP land use (2014 – 2025) with 2017 Ag Census + added updates to Sewer Service Areas (SSAs) and MS4s + updates to population for all counties with 2025 projections adjusted: $*(v_{2019} / v_{2017})$ = all counties that did not provide projections are scaled accordingly
6. Urban fertilizer data for 2013-2014
7. VA manure nutrient concentrations
8. New NEIEN data pull for all progress years
9. Methodology for VW settlement reductions



2019 Progress Scenario

Verification

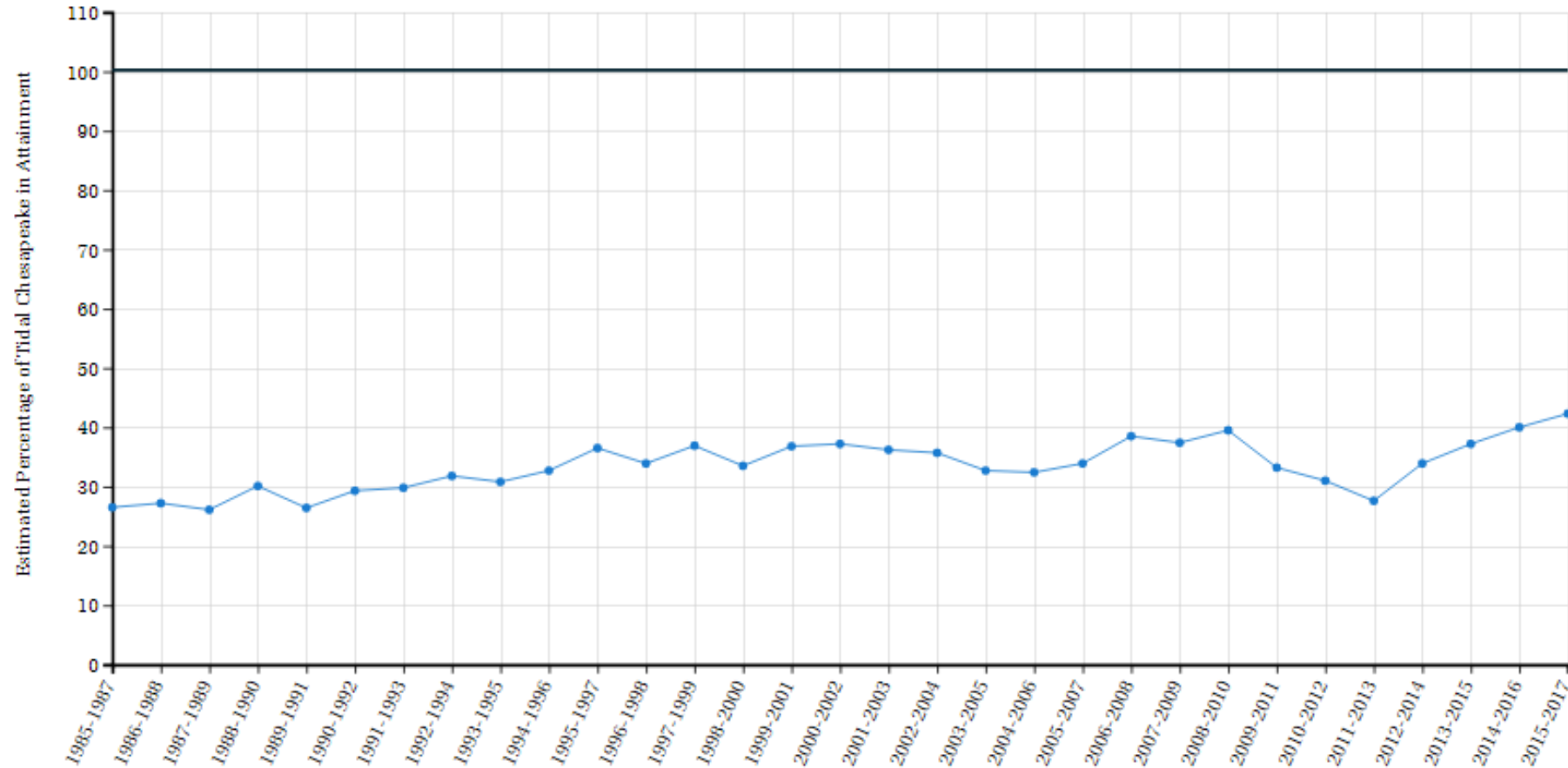
- For the 2018 Progress scenario, EPA did several reviews of the BMP and wastewater data, highlighting issues that needed investigation or attention.
 - Detailed procedures for the analysis are currently available on the CBP site at https://www.chesapeakebay.net/channel_files/32642/sweeney_wqgit_2018progressverification_021119.pdf
- For the 2019 Progress scenario, please pay particular attention to your documentation of the quality of Nutrient Application Management data
 - The QAPP should describe how, exactly, reported compliance levels are accounted for and calculated for each type of Nutrient Management (core and supplemental, both N- and P-based).
 - How are raw data used and calculations done to determine the degree to which landowners are following their plans – for each Bay Program-defined element of the BMP?



2019 Progress Scenario Verification

- Other verification actions:
 - EPA will document, in the verification framework, these protocols for conducting reviews associated with the annual submissions of BMP data for the progress assessment.
 - EPA to revisit and document the schedule for submissions of updates to the jurisdictions' BMP Verification Program Plans.
 - The Watershed Technical Workgroup has completed the WQGIT's request to simplify NEIEN error reports.
- Ultimately, the standards for dissolved oxygen, chlorophyll a, clarity and submerged aquatic vegetation are measured by the tidal monitoring program, not through modeling tools.

Water Quality Standards Attainment



Interactive Slider

