Chesapeake Bay TMDL Phase III WIP Process Overview

July 13, 2018 Michelle Edwards Rappahannock-Rapidan Regional Commission

Thornton River, Rappahannock County

What is the Bay TMDL?

The Chesapeake Bay Total Maximum Daily Load (TMDL) is designed to ensure that all pollution control measures needed to fully restore the Bay and its tidal rivers are in place by 2025.

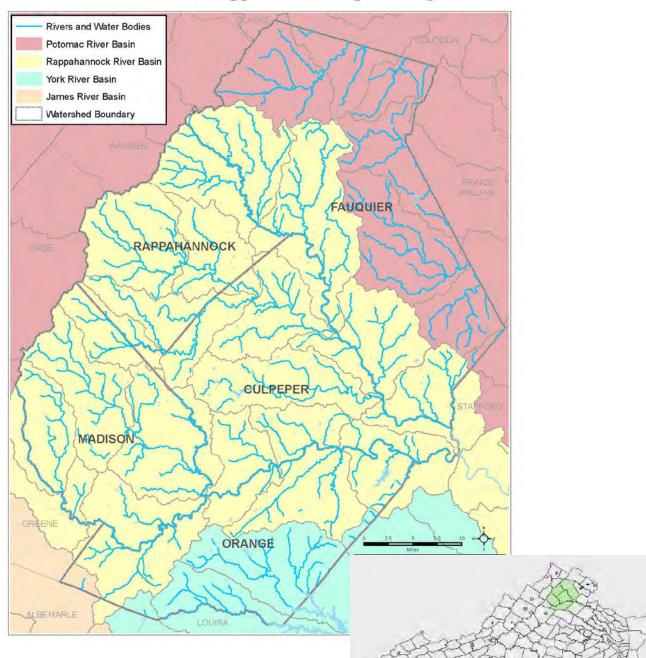
- Focuses on reducing nitrogen, phosphorus and sediment.
- Required under the U.S. Clean Water Act
- Prompted by insufficient progress of restoration efforts and continued poor water quality in the Chesapeake Bay and its tidal tributaries.



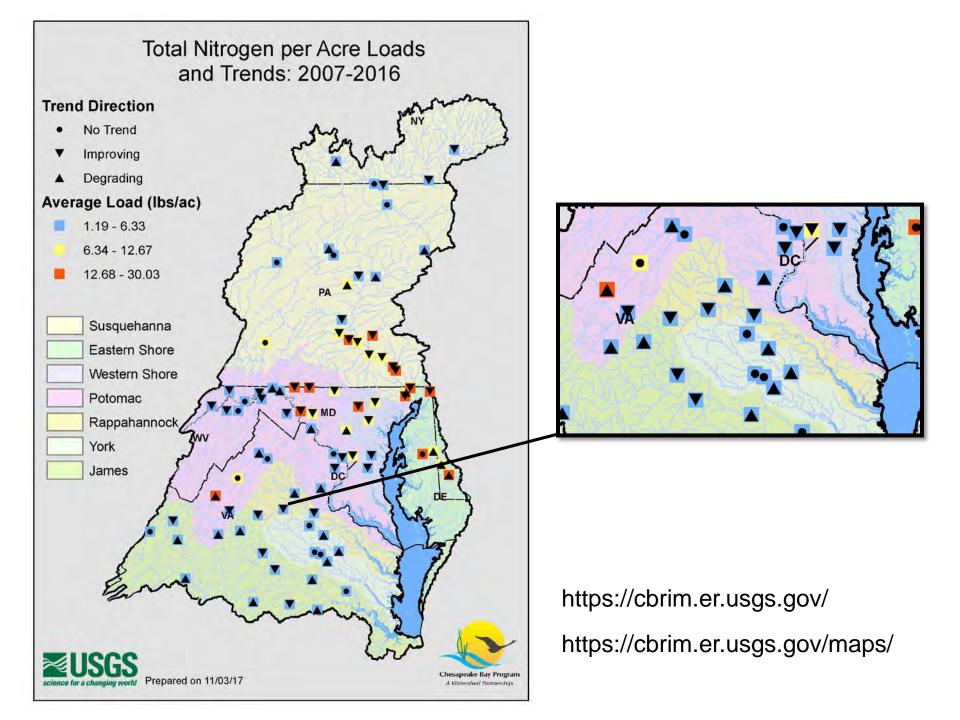
What is a WIP?

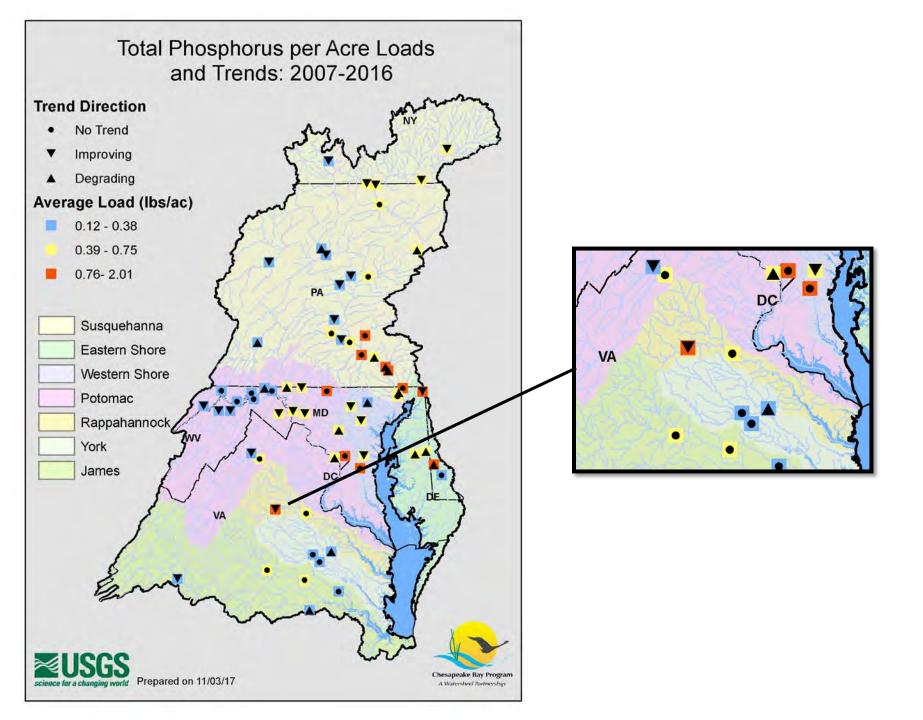
As part of the Bay TMDL, each of the six Chesapeake Bay states and D.C. are required to develop a Watershed Implementation Plan (WIP).

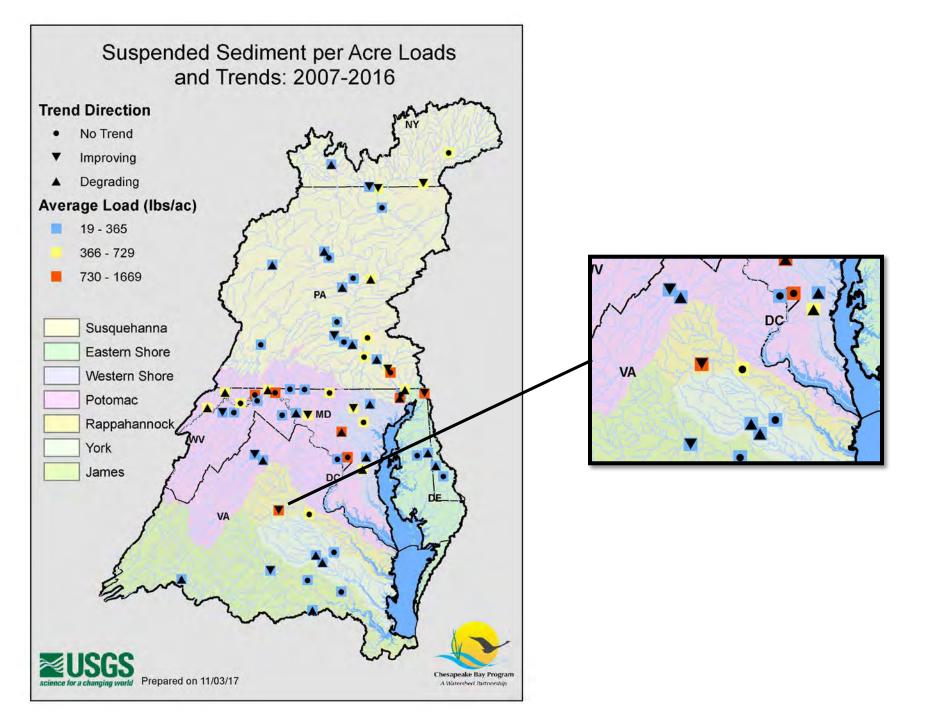
- The WIP details how and when the state will meet the nutrient reduction targets given by EPA.
- Phase I WIP submitted to EPA in November 2010
- Phase II WIP March 2012
- Phase III WIP Summer 2019



River Basins in the Rappahannock-Rapidan Region







Other Bay Progress Indicators



In 2014-2015, Submerged Aquatic Vegetation (SAV) increased by 21%, to the highest levels in the last three decades. Abundance of underwater grasses is a good indicator of water quality because they require clear water and sunlight.



Blue crab, shad, rockfish and oyster fisheries have all increased, especially blue crabs, whose number of adults tripled since 2014.

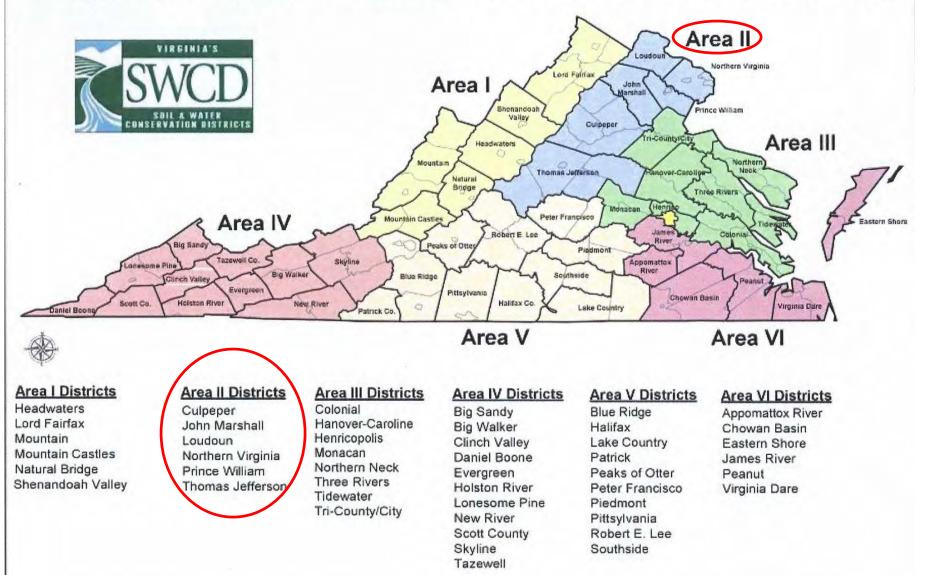
Bay Model Improvements

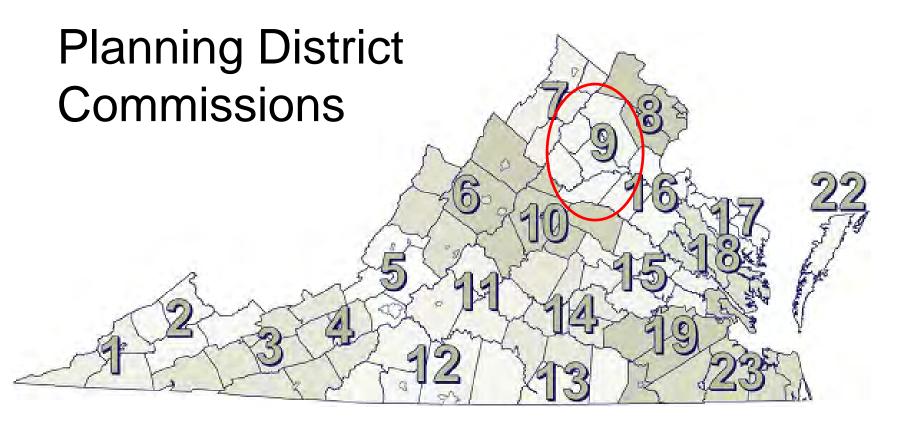
- Better Land Cover Data (1m resolution)
- Inclusion of Locality Data
- Improved MS4 Boundary Data
- Hundreds more BMPs
 - Including ag and forest lands conservation

Statewide WIP III Process Overview

- Regionalized response:
 - SWCDs will coordinate response to address agriculture and most forest nutrient reductions
 - PDCs will coordinate urban, septic and remaining forest nutrient reductions
- All data is aggregated at the SWCD Area or PDC level
- No local data or strategies
- SWCDs and PDCs submit information to DEQ
- DEQ then submits Virginia's WIP to EPA

Virginia Soil and Water Conservation Districts





- 1. Lenowisco PDC
- 2. Cumberland Plateau PDC
- 3. Mount Rogers PDC
- 4. New River Valley RC
- 5. Roanoke Valley-Alleghany RC
- 6. Central Shenandoah PDC
- 7. N. Shenandoah Valley RC

- 8. Northern Virginia RC
- 9. Rappahannock-Rapidan RC
- 10. Thomas Jefferson PDC
- 11. Region 2000 LGC
- 12. West Piedmont PDC
- 13. Southside PDC
- 14. Commonwealth RC

- 15. Richmond Regional PDC
- 16. George Washington RC
- 17. Northern Neck PDC
- 18. Middle Peninsula PDC
- 19. Crater PDC
- 22. Accomack-Northampton PDC
- 23. Hampton Roads PDC

PDC Planning Tasks

- 1. Revise region's urban BMP input deck provided by DEQ
- 2. Review and update (as necessary) combined ag and urban BMP input deck
- 3. Develop regional implementation strategies
- 4. Outline resources needed for implementation
 - Funding, authority, education and technical assistance needs
- 5. List local co-benefits achieved through BMP and strategies
 - Such as improving local water quality, advancing economic development opportunities, enhancing outdoor recreation, climate resiliency, flood control

Why Participate?

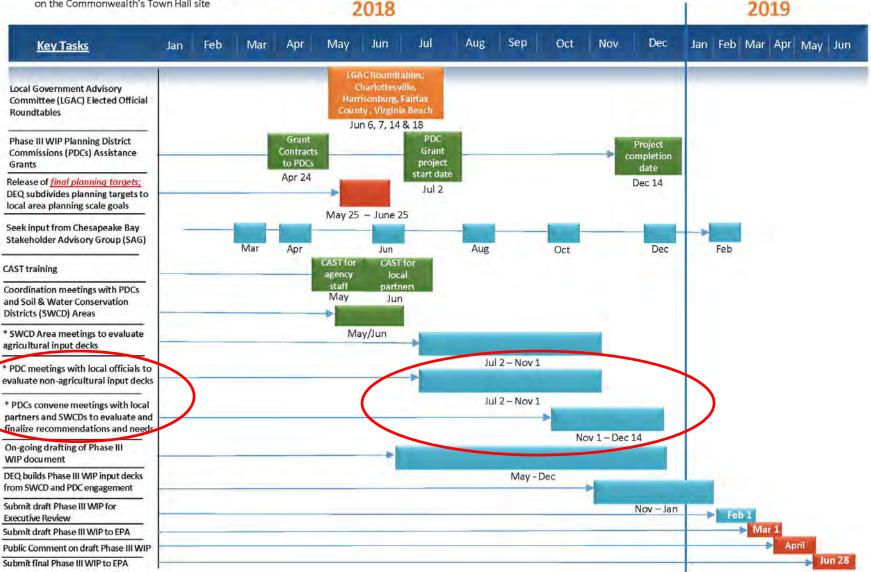
- You care about the bay and its tributaries
- The state will submit BMP data and strategies with or without an individual locality's input
- Without local input, future policies, regulations and funding decisions guided by the WIP may not reflect local conditions and interests
- Participation ≠ local implementation requirements
- Implementing water quality BMPs can have additional local benefits

Regional Process Overview

- 1. Minimum of 3 urban stakeholder meetings (RRRC)
 - Agriculture stakeholder process to occur concurrently (SWCDs)
- Minimum of 1 ag-urban joint stakeholder meeting (RRRC)
- 3. Submit regional information to DEQ (RRRC)
- Technical assistance to individual localities upon request

Virginia Phase III WIP Development Timeline – revised 4/23/18

* These meetings are open to the public and will be noticed on the Commonwealth's Town Hall site



Initial Stakeholder Meeting Goals

- List any additional stakeholder groups or individuals to invite to participate.
- Conduct initial review of urban BMP input deck
- Fine tune the regional WIP process including roles, and timeline.
- Determine what assistance and other resources the region needs from RRRC, DEQ or other organizations for the WIP planning process.
- Begin to compile a list of regional comments

Invited Stakeholder Groups

- Local governments
- Soil and Water Conservation Districts
- Natural Resource Conservation Service
- Rappahannock River Basin Commission
- Friends of the Rappahannock
- Piedmont Environmental Council
- Blue Ridge Foothills Conservancy
- RappFLOW
- Rappahannock League for Environmental Protection
- Chesapeake Bay Foundation
- VA Dept of Environmental Quality

- VA Department of Health
- VA Department of Forestry
- VA Dept. of Transportation
- Ecosystem Services
- Environmental Systems Services
- Bowman Consulting
- Welford Engineering
- Hinchey Baines Engineering
- ATCS
- Welford Engineering
- Ryan Homes
- Van Metre Homes