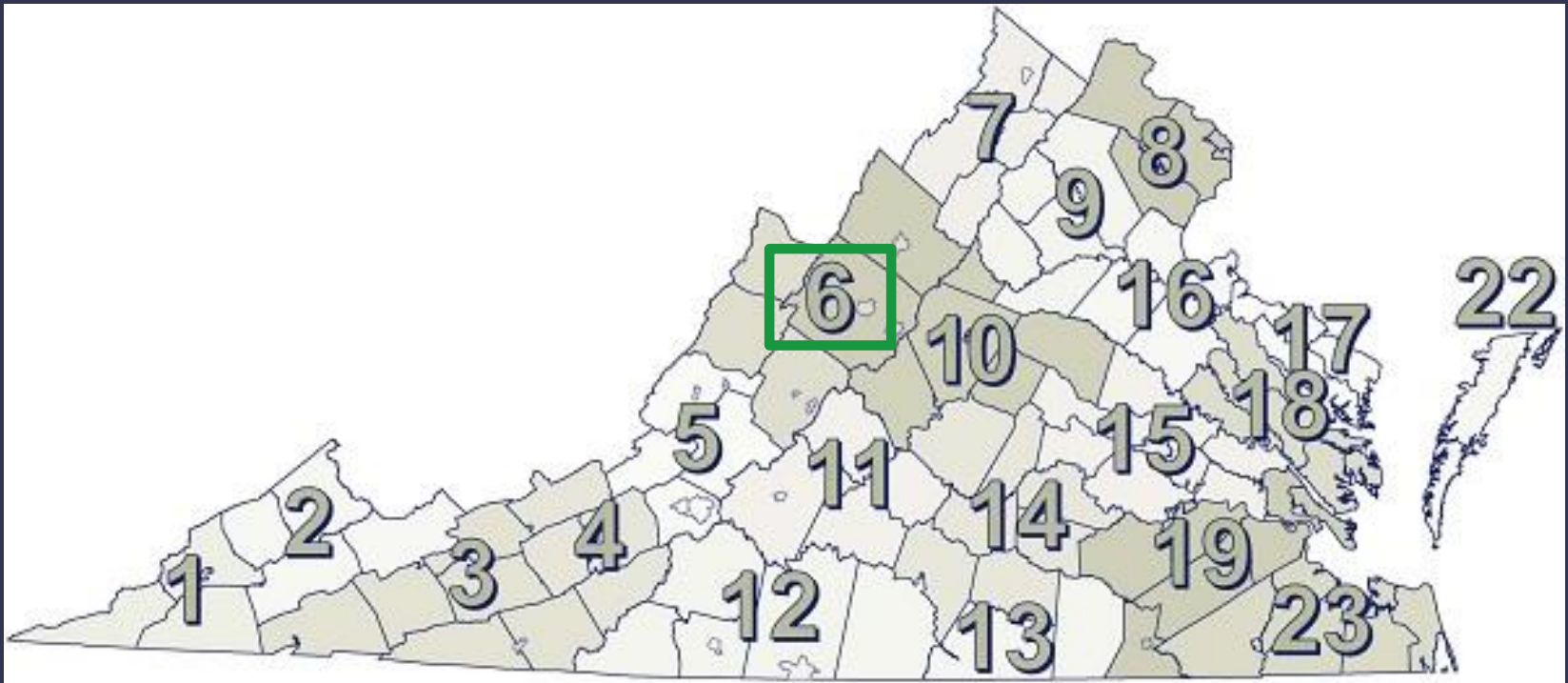


# Chesapeake Bay TMDL Phase III WIP Process Overview December 11, 2018



Hunter Moore  
Central Shenandoah Planning  
District Commission



- |                                  |                             |                              |
|----------------------------------|-----------------------------|------------------------------|
| 1. Lenowisco PDC                 | 8. Northern Virginia RC     | 15. Richmond Regional PDC    |
| 2. Cumberland Plateau PDC        | 9. Rappahannock-Rapidian RC | 16. George Washington RC     |
| 3. Mount Rodgers PDC             | 10. Thomas Jefferson PDC    | 17. Northern Neck PDC        |
| 4. New River Valley RC           | 11. Region 2000 LGC         | 18. Middle Peninsula PDC     |
| 5. Roanoke Valley-Alleghany RC   | 12. West Piedmont PDC       | 19. Crater PDC               |
| 6. <u>Central Shenandoah PDC</u> | 13. Southside PDC           | 22. Accomack-Northampton PDC |
| 7. N. Shenandoah Valley PDC      | 14. Commonwealth RC         | 23. Hampton Roads PDC        |

# Key Terms:

## Total Maximum Daily Load (TMDL):

A calculation that determines the amount of a pollutant that can occur in a waterway, but still meet water quality standards and ensure clean water.

## Local Area Planning Goals (LAPGs):

Pollutant reduction goals established for local communities.

## Input Deck:

A list of BMP combinations that will address local area planning goals.

## Watershed Implementation Plans (WIPs):

The holistic combination of BMP actions and programmatic actions aimed at reducing pollutants in local water ways to achieve the TMDL calculation.



# What is the Bay TMDL?

The Chesapeake Bay Total Maximum Daily Load (TMDL) is designed to ensure that all pollution control measures needed to reach the goal of a clean Chesapeake Bay and local waterways that meet water quality standards 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 the Bay WIP?

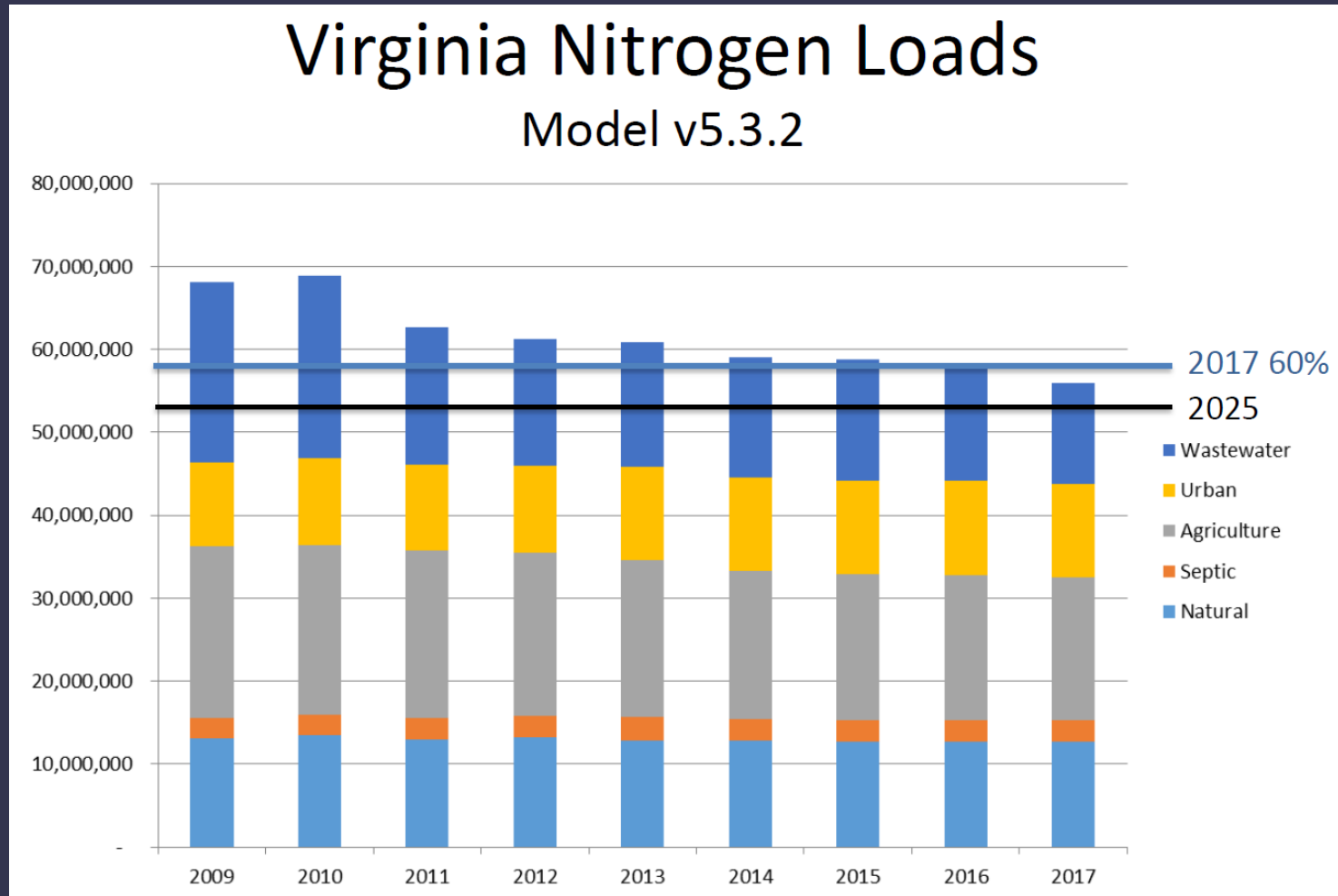
As part of the Bay TMDL, each of the six Chesapeake Bay states and D.C. are required to develop a Watershed Implementation Plan (WIP).

- 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





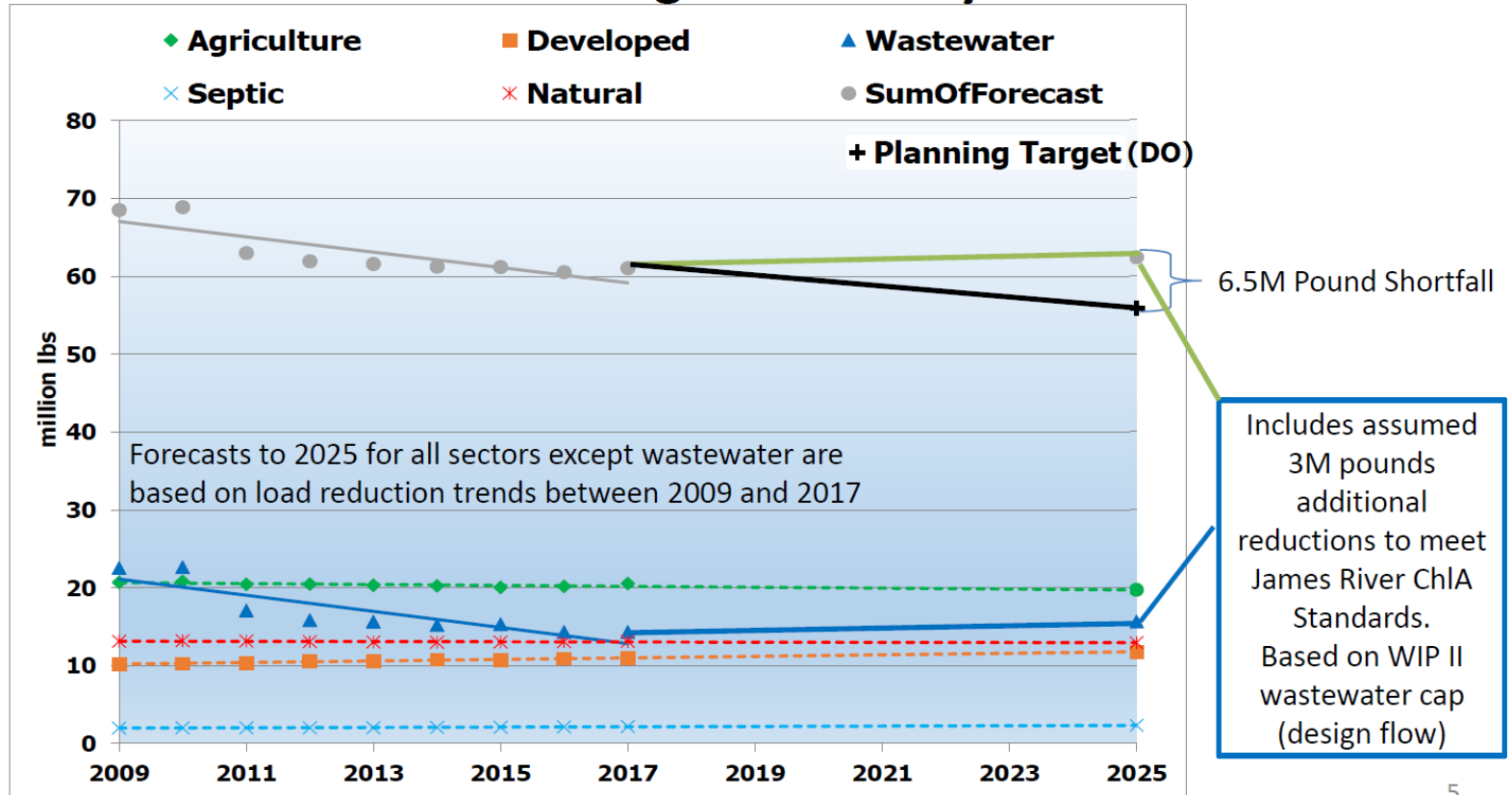
# How are we doing-Where are we going?



Source: James Davis-Martin, DEQ

# How are we doing-Where are we going?

## v6.0 VA Nitrogen Loads by Source



Source: James Davis-Martin, DEQ

# Statewide WIP III Process Overview

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



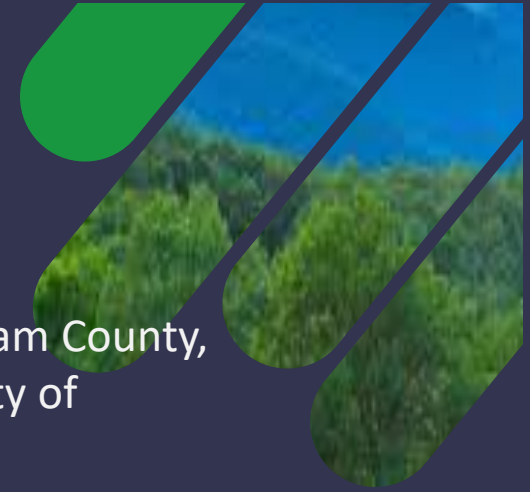


# Regional Process Overview



1. Minimum of 3 urban stakeholder meetings
  - July 31<sup>st</sup>
  - August 22<sup>nd</sup>
  - September 20<sup>th</sup>
2. Minimum of 1 ag-urban joint stakeholder meeting
  - November 26<sup>th</sup>
3. Submit regional information to DEQ Dec 14<sup>th</sup>
4. DEQ's draft plan is due in April 2019

# CSPDC Locality & Stakeholder Group



- Local Governments: Augusta County, Bath County, Rockingham County, Rockbridge County, City of Staunton, City of Waynesboro, City of Lexington, City of Harrisonburg, and Town of Glasgow.
- Soil and Water Conservation Districts
- Department of Conservation and Recreation
- Soil & Water Conservation Districts
- Virginia Department of Health
- Virginia Department of Forestry
- Virginia Department of Transportation
- Virginia Department of Environmental Quality
- Valley Conservation Council
- Community Alliance for Preservation
- Friends of the Shenandoah River

# PDC Planning Tasks

1. Revise region's urban BMP input deck provided by DEQ
2. Develop regional programmatic actions
3. Outline resources needed for implementation
  - Submitted funding, authority, education and technical assistance needs
5. List local co-benefits achieved through BMP and strategies
  - Examples: improving local water quality, advancing economic development opportunities, enhancing outdoor recreation, climate resiliency, flood control, etc.



# Top BMPs Identified



- Bioretention / Raingardens
- Forest Buffer
- Nutrient Management Plan
- Urban Stream Restoration
- Tree Planting
- Street Cleaning
- Storm Drain Cleaning
- Septic Connection
- Septic Pumping
- Impervious Surface Reduction

# Top Programmatic Actions Identified

- Create new funds for stormwater design projects and engineering assistance.
- Create consistent SLAF funding and expand categories for funds, including: Stream Restoration, Nutrient Trading, and Urban Stormwater BMPs.
- Identify opportunities for stream restoration and bank stabilization and implement as part of a larger watershed plan.
- Create Nutrient Management Plan that would be implemented or required by HOAs; would possibly need a consultant to organize the program.
- Expand VCAP cost-share program and other urban cost share funds; VCAP funds need to be more consistent.
- Create new funds to address project pairing. For example, pairing transportation and drainage with water quality projects.
- Develop a program to capture and track sewer pumping. Pumping companies could report more information on when and where they pump.
- Implement a "community first" program that promotes the local area instead of focusing in the bay area. A local program would engage citizens and encourage them to participate by promoting benefits to local communities.

# Top Agriculture Sector BMPs

- Greatest agricultural BMP needs in Bay watershed:
  - Animal Waste Facilities
  - Grass and Forested Buffers (incl. CREP)
  - Cover Crops
  - Nutrient Management (all types)
  - Poultry Litter Transport
  - Livestock Stream Exclusion





# Thank You!

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