Virginia Chesapeake Bay TMDL Watershed Implementation Plans (WIP) – Phase II

Environment Virginia 2011 – Track 1 – Session E
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Presenters: Leslie Middleton, Rivanna River Basin Commission
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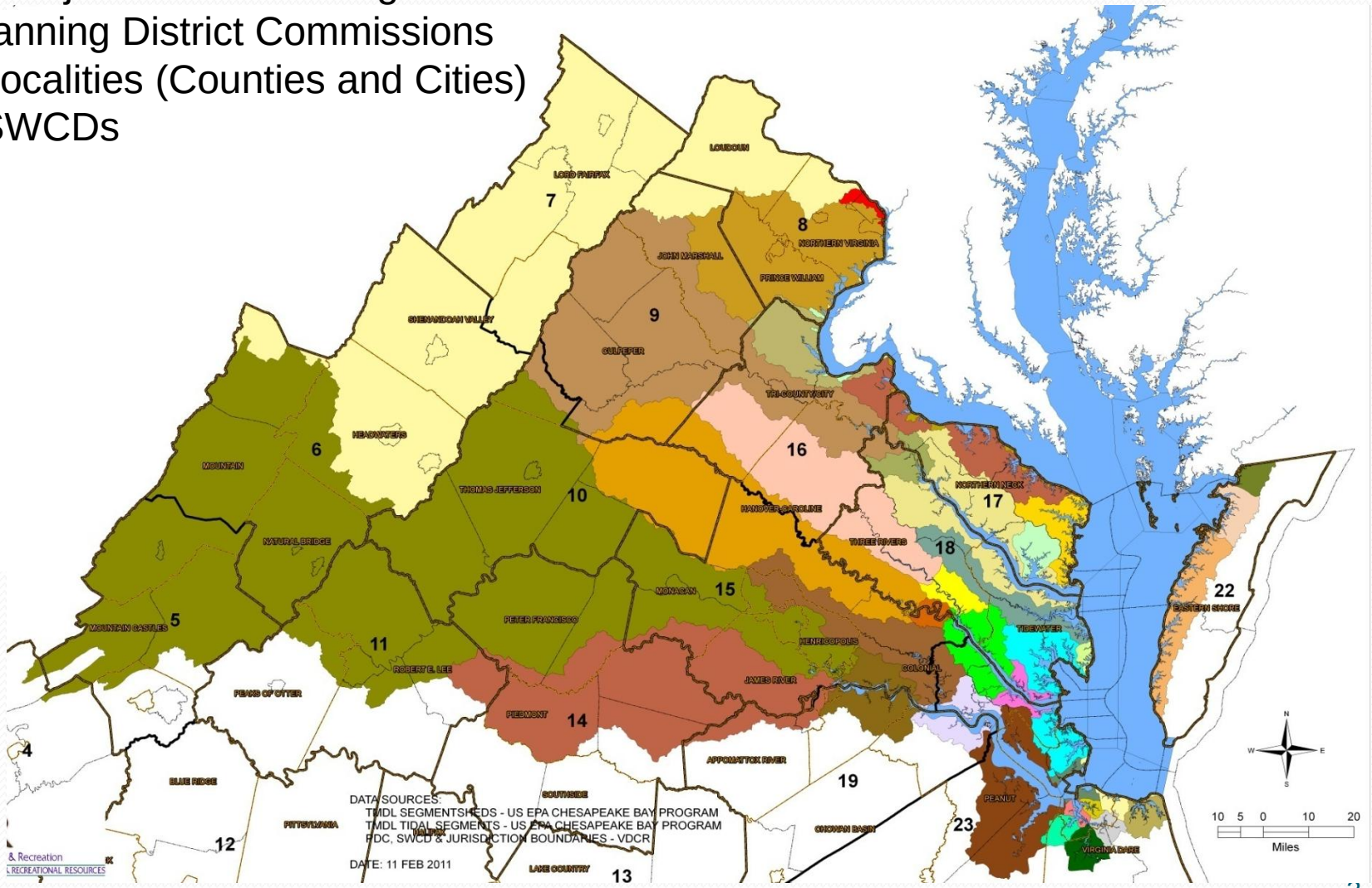
Scale of Implementation

Five Major basins – 39 segment sheds
6 Planning District Commissions
96 Localities (Counties and Cities)
32 SWCDs



Project Schedule

- Draft Local Goals to Localities - 06/01/2011
- EPA Delivers Phase 5.3.2 Model – 07/1/2011
- Final Local Goals to Localities - 08/01/2011
- Preliminary 2012-2013 Milestones to EPA - 9/30/2011
- Local Community Conservation Profiles - 11/01/2011
- Draft Phase II WIP to EPA - 12/01/2011
- Final 2012-2013 Milestones to EPA - 01/03/2012
- Final Phase II WIP to EPA - Early 2012

Phase II Goals

- Further divide final allocations for “39” segment sheds
- Work with local elected officials, staff, conservation districts, watershed associations and citizens to identify strategies to be implemented
- Provide additional detail on programs, technologies, and practices to implement by 2017
- Include updates resulting from revisions to the Bay Watershed Model
- Include specific programs and practices in the first 2-year milestones (2012-2013)

Virginia's Phase II Approach
Local Goal Load Development

- Utilize the Bay Model outputs from the allocation scenario to further distribute the source-segment Bay TMDL allocations to the locality-segment scale
  - Loads from all segments and sources within a local entity will be aggregated to a single local load for each pollutant
  - Local loads will be compared with the model output for the current progress scenario (2009) to derive local reduction goals. Initial goals presented as percentage reduction from current loads (ie. 25% reduction in N, 18% reduction in P, 32% reduction in S)
  - BMPs implemented through 2009 will be compared with those proposed in WIP I to determine the BMPs needed to reach the reduction goals
- The local reduction targets and associated BMPs will be the starting point for localities to work from during the Phase II WIP development process. These figures will be revised upon EPA completion of the Phase 5.3.2 model (July/August)

Virginia's Phase II Approach
Local Engagement Process

- Secretary's Office presentation to Planning District Commissions
- E-mail introducing Engagement Team
  - Project team member
    - Regional Manager
    - Local Bay Assistance Liaison (in Bay Act areas)
- Contact to PDC Executive Director asking about interest in participating
- Face-to-face meeting with PDC staff (after SAG meeting)
  - More detail on Phase II process
  - Discussion of the Community Conservation Profile tool
    - A suggested process for local engagement and strategy development
    - Provides EPA model data at local scale
    - Accommodates desire to use locally generated data
    - Mechanism by which to reconcile local data with model
  - Discuss potential roles with PDCs
    - Technical
    - Facilitation
    - Neither/both
    - Ability/capacity/resources (available and needed)
- Ongoing technical support and engagement

Virginia's Phase II Approach
Community Conservation Profile

- Baseline Data
  - Goal loads and model outputs for localities
  - Locally available data (land use, BMPs on the ground, etc.)
- Resource Assessment
  - Local conditions
  - Incorporate local data into assessment tool
  - Source identification
- Existing Program Evaluation
- Conservation Strategies
  - 2017 Implementation goals
  - 2025 Strategies
- Identify additional resources and programs required to achieve implementation goals
  - Estimate costs of local implementation

Virginia's Phase II Approach
2012 – 2013 Milestone Development

- Evaluate Phase I WIP actions
- Evaluate 2011 milestone actions and contingencies
- Identify new State programs (Fertilizer, ENCEP, etc.)
- Develop 2012-2013 Actions
- Submit preliminary milestones for Gubernatorial review
- Submit preliminary milestones to EPA (9/30/2011)
- Identify additional resources required to achieve implementation goals
- Submit final milestones to EPA (9/30/2011)

For Discussion

- How should collaboration between local/regional entities during the Phase II WIP process be achieved/promoted?
- Can Phase II Watershed Implementation planning support other initiatives such as blue/green infrastructure planning; identifying and adding protection for health waters?
- What tools should EPA and/or Virginia provide to localities to make the Chesapeake Bay Watershed Model assumptions and processes more transparent?
- What are the challenges to undertaking Phase II?
- What are the opportunities in undertaking Phase II?