

Chesapeake Bay TMDL: Phase II WIP Update

Presented to
Hampton Roads Planning District Commission
Whitney S. Katchmark
Principal Water Resources Engineer
January 19, 2012



December Commission Actions

1. By December 28th, localities will send HRPDC:
 - ❑ Corrected baseline BMP and land use data.
 - ❑ Level of implementation for each BMP with conditions and qualifications.
2. Authorize HRPDC staff to select BMPs to fill the gap between local scenarios and the Phase I WIP level of treatment. BMP scenarios for the James and York basins will be included in the Regional report.
3. Localities will each submit an individual plan to DCR that focuses on narrative strategies and includes the Regional report as an appendix.



Summary of Regional Scenario

Scenario	Pounds of nutrients removed compared to 2010 No BMPs		
	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)
Phase I WIP reductions	541,016	78,181	14,792,723
Regional Scenario	741,079	72,432	39,014,362
Percent of Target	>100%	93%	>100%

Alternate BMPs cannot be entered in VAST.

- Minimization of Sanitary Sewer Overflows
- No Discharge Zones
- Harvested Wetlands
- Oyster Reef Restoration
- Wetland Restoration
- Catch Basin Cleaning
- Pet Waste Education program
- BMP Upgrades



Issues with Regional Scenario

VAST data does not match Local data.

- Extensive Local Land Use Corrections.
 - Inaccurate Pre-2006 BMPs.
- Land use distribution & pre-2006 BMPs affected the calibration of the Bay Program's models. If the data was corrected and the models recalibrated, nutrient loading rates for each type of land use would be revised.
- State would have to reallocate nutrient and sediment reductions across sectors and locality targets would change.
- **State should not renew MS4 permits until model is recalibrated with local data.**



Request for Resources

Regional Report includes numerous requests for resources:

- ❑ Research and model revisions
- ❑ Policy changes
- ❑ Funding programs

Top Priorities

- ❑ Increase budget of Agriculture Cost-Share Program and double Soil Water Conservation District staffing.
- ❑ Issue \$300M state bond to finance wastewater upgrades.
- ❑ Establish septic system cost share program to provide 50% of projected total costs (\$114M/yr) to support upgrades, replacements, or connecting to sewer.
- ❑ Expand Chesapeake Bay Preservation Act to entire Bay watershed.

5



Cost Estimates

- Regional Stormwater sector Cost Estimate of \$9.5B was based on EPA's Backstops.
- Cost Estimate of \$2.5B was based on Virginia's final Phase I WIP.
- Cost to implement the Regional Scenario for the Phase II WIP will change.
 - ❑ Localities identified BMPs installed between 2006-11.
 - ❑ Proposed BMPs selected by localities are more cost effective than those in the Phase I WIP.



Next Steps

- State will submit the final Phase II WIP to EPA by March 30, 2012.
- Legislation proposed in General Assembly.
 - ❑ Expand Nutrient Credit Trading
- MS4 Permit renewal process may begin soon.
- HRPDC will develop regional cost estimate for Phase II WIP.



Recommended Actions

1. Approve report for distribution.
2. Localities will each submit an individual plan to DCR and include the Regional report as an appendix.

