

**ST. MARY'S COUNTY GOVERNMENT  
DEPARTMENT OF LAND USE  
AND GROWTH MANAGEMENT**

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**Local Area 2012-2013 Milestones**

**ST MARY'S COUNTY, MD**

**Programmatic Milestones --Accomplishments in FY 2012 – 2013**

<p>1. Continue to implement existing CIP projects and to fund existing operational programs that support achieving reductions necessary to meet the load allocations for the county;</p>	<p>Preliminary design completed for 15 projects with a proposed cost \$2,885,232</p> <p>Expanded street sweeping program and log system implemented in 2013 for reporting beginning in FY2014.</p>
<p>2. Perform future planning/capacity analysis/cost benefit analysis to evaluate capacity and needs for county programs and infrastructure;</p>	<p>Procured consultant(s) services for identifying cost benefit/ nutrient reduction and design for retrofit of 75 facilities by Dept. of Public Works &amp; transportation. County Schools, Dept. of Rec &amp; Parks (Goal is to meet at least 60% of WIP Urban sector load)</p> <p>Developed list of private facilities for county to acquire and retrofit.</p>
<p>3. Investigate funding options necessary to fund future implementation efforts;</p>	<p>County selected to participate in Coastal Training Program's "Stormwater Management &amp; Financing Training." Resulted in:</p> <ul style="list-style-type: none"> <li>• flow chart of County's existing SWM process;</li> <li>• identified needed and potential programmatic changes.</li> <li>• Identified needs for future training.</li> </ul>
<p>4. Continuing to prepare for NPDES permit. Initiate a SWM pilot project program to inform our implementation strategy and future NPDES permit development;</p>	<p>DPWT and their consultant continued</p> <ul style="list-style-type: none"> <li>• Inventory of public and private SWM facilities.</li> <li>• Evaluating status/performance of inventoried facilities.</li> </ul> <p>Process established for routinely inspecting and contacting and informing owners/operators of outstanding maintenance deficiencies</p>
<p>5. Identify the appropriate tracking measures and monitoring procedures and data entry where these are currently inadequate to institutionalize the assurance of implementation and that information necessary to demonstrate WIP milestone compliance is available;</p>	<p>Coordinated with Watershed Restoration Specialist &amp; University of Maryland Sea Grant Extension Program on "SMART" tool development for tracking voluntary homeowner BMP installation. Pilot project and reporting to commence once Watershed stewards are trained for verification.</p> <p>Refinements made to conservation tracker for local Ag BMPs</p> <p>Consultant services used by DPWT to refine SWM database for tracking including GIS location for culverts, inlets.</p>

<p>6. Work with other counties and organizations to identify common needs and concerns that may be better addressed through statewide or regional efforts/programs; and</p>	<p>Offered in-kind assistance for a UMD grant application to conduct a septic-owner educational and assessment effort in Southern MD. The primary goal for this proposal is to educate septic-owners about responsible maintenance actions and new technology. A secondary goal is to initiate a behavior change effort by taking advantage of the participants' presence and utilizing them as focus groups.</p> <p>Offered in-kind assistance for an SCD grant application to conduct a series of meetings between farmers and representatives of the Amish and Mennonite communities, the local Soil Conservation Districts, and Charles and St. Mary's County governments and develop a recommended procedure for the design and construction of conservation practices that are beyond the ability of most farmers to install without some form of assistance.</p> <p>Offered in-kind assistance for an Alliance for the Chesapeake Bay grant application to demonstrate how local forest conservation programs enhance community resilience, target forest conservation in priority places and develop improved processes in the Southern Maryland counties to reach out to and work with private landowners to achieve an increase in coastal forest cover.</p>
<p>7. Coordinate with the State Highway Administration to address SWM, erosion and maintenance issues for their facilities within the county.</p>	<p>DPWT has identified a need to address double counting of credit where private facilities receive runoff from state facilities.</p>
<p>8. Additional programmatic and data issues identified</p>	<p>There is a need to account for the long term maintenance of agricultural ponds in conservation planning and tracking: The Counties 250 + farm ponds for sediment and irrigation purposes only have 10-15 year planned lifespans. Issues include BCCMP pipes that are failing or beginning to fail, inadequate maintenance to manage woody vegetation on embankments, retrofits to since ponds typically provide no nutrient removal.</p> <p>There is a lack of any local comprehensive water quality monitoring programs and lack of funds/expertise to establish at this time. Proposal to help fill the gap by working with colleges and secondary school science and environmental programs to expand involvement of students in monitoring and assessment.</p> <p>Naval Air Station staff working to retrofit and upgrade facilities per MDE approved designs but there is no dedicated funding for WIP at federal level for Navy facilities. Recommendation that DOD facilities need to have stormwater designated as a utility for funding purposes rather than be listed under the Commanding Officer Budget.</p>

**Implementation Accomplishments during Milestone period July 1, 2011 to June 31, 2013**

1. St. Mary's River Watershed Association initiated four SWM pilot projects to provide water quantity and water quality improvement for unmanaged stormwater: Two projects were located on the St. Mary's College of Maryland campus, one at great Mills High school and one at a Community housing site. Provided on the next page is a summary identifying the area treated and nutrient and sediment reductions for each?

2. 83 grants awarded for BAT installation as of November 2013
3. Contract for Marlay Taylor ENR upgrade awarded in October 2013 (690 days for contract completion)
4. Four farmers certified for Nutrient trading program

**St. Mary's River Watershed Association NFWF Grant  
Project summary data for WIP reporting**

The St. Mary's River Watershed Association (SMRWA) obtained a National Fish and Wildlife Foundation grant to fund design and construction of small restoration projects at four sites within the St. Mary's River drainage area. SMRWA organized the local planning. The Center for Watershed Protection provided the technical and engineering support for the WIP and demonstration projects. St. Mary's College of Maryland is providing the science component including baseline monitoring data; and Maryland Sea Grant Extension will provide oversight for the demonstration projects. Loiderman Associates provided the construction documents required to obtain permits

- Designed and installed 2 bioretention practices at St. Mary's College of Maryland
  - Practice 1-
    - Surface area- 4500 sq. ft.
    - Drainage area- 1.6 acres (25% impervious)
    - Load reduction estimates- N=16.91 lbs./yr.; TP=1.36 lbs./yr.; TSS= 932.79 lbs./yr.
  - Practice 2-
    - Surface area-1530 sq. ft.
    - Drainage area- 0.18 acres (100% impervious)
    - Load reduction estimates- N=1.54 lbs./yr.; TP=0.194 lbs./yr.; TSS= 113.9 lbs./yr.
- Designed and installed 2 bioretention practices at Great Mills High School
  - Practice 1-
    - Surface area- 1000 sq. ft.
    - Drainage area 4 acres (89% impervious)
    - Load Reduction estimate- N=9.22 lbs./yr.; TP=2.72 lbs./yr.; TSS=634.17 lbs./yr.
  - Practice 2-
    - Surface area- 1000 sq. ft.
    - Drainage area 1.7 acres (93%) impervious
    - Load Reduction estimate- N=7.69 lbs./yr.; TP=2.14 lbs./yr.; TSS= 774.25 lbs/yr.
- Designed and installed 1 bioretention practice at Greenview Village Apartments (St. Mary's Housing Authority)
  - Practice 1-
    - Surface area- 340 sq. ft.
    - Drainage area- 0.38 acres (40% impervious)
    - Load Reduction estimate- N= 3.8 lbs/yr; TP=0.583 lbs/yr TSS= 230.88 lbs/yr.