

Washington County WIP Milestone Progress Report

Last updated: February 9, 2014

Milestone	Update
<i>Washington County Government</i>	
Annual mechanical street sweeping of 863 miles in both regulated and non-regulated urbanized areas and also in non-urbanized areas.	Washington County's Highway Department contracts out a spring street sweeping to collect and dispose of accumulated debris from the winter snow removal operations. The 2013 spring sweeping accounted for approximately 200 tons of debris that was swept and removed from 863 miles of County roadways in both the regulated and non-regulated areas.
Reviewing the potential storm water retrofits and bio filter projects for roadways that could be included in County CIP. Final inclusion and implementation contingent upon funding and approval by Board of County Commissioners.	The County continues to assess potential storm water retrofits and bio filter projects for roadways. Some specific projects have been identified in the approved FY 13/14 CIP.
Analyze the potential of placing County owned property under an Urban Nutrient Management Plan.	This analysis is ongoing and full development of a plan is contingent upon further definition of this BMP.
Completion of the Black Rock Creek Stream Restoration project in FY12.	The Black Rock Creek Stream Restoration Project is complete.
Completion of stream restoration in the Devil's Backbone Dam project.	The Devil's Backbone Dam Project is completed.
Addition of storm water management infrastructure on Robinwood Drive Project to address an area with no prior storm water management.	The Robinwood Drive Project is not completed but will result in a significant load reduction upon completion.
Addition of storm water management infrastructure on Marsh Pike/Longmeadow Road project.	The Marsh Pike / Longmeadow Road Project is complete.
Replacement of storm water pipe on Brookfield Road with grass swale.	This project is currently under design, pending negotiations with the property owner.
Analyze potential of replacement of impervious paving with pervious paving for load reduction credit and financial feasibility.	Washington County performed detailed analysis upon various means of meeting the target load reductions. The initial calculations indicate that permeable pavement will cost approximately \$11,000 per each lb of Nitrogen removed and \$66,000 per each ton of Phosphorus removed. Early analysis of other means indicate that permeable pavement applications may be limited.
Increasing FTE by one position in the Division of Environmental Management for a Watershed Specialist which will manage the County's local watershed and WIP efforts.	Position has been filled.
Analyze potential changes to the County Phase II MS4 permit which could become effective in 2012.	The new permit, or draft thereof, has not been provided to the County to date.

Review the level of implementation projects required to meet the WIP loading reduction numbers and prepare a presentation to the BoCC for their direction and approval. This report will address funding requirements and will provide funding alternatives which may include, but are limited to, state and/or local fees.	The Division of Environmental Management made a presentation to the Washington County Board of County Commissioners on May 22, 2012.
Define the County Phase II MS4 regulated area and work with MDE for approval. This area will exclude any areas which fall in an incorporated municipal area or are under a storm water system that is owned or operated by a separate entity.	Washington County Engineering & Construction staff met with MDE staff on several occasions in which there were various discussions regarding the MS4 regulated areas. MDE indicated that the new NPDES permit clearly defines the whole county as being regulated, with the exception of the municipalities with their own stormwater systems.
Development of a project list which can be utilized in development of yearly funding requests from the Board and various grant sources.	Other proposed best management practice projects will be identified in 2013 to best utilize the approved FY14 CIP funding. Projects may include bio-swales, bio-filters, permeable pavements, ponds, and wetlands along roadways as well as a street sweeping program.
Investigate new and alternative methods of working towards the target load reductions.	MDE is hosting a series of regional stormwater plan review conferences in the fall of 2013. The conference for Western Maryland is tentatively scheduled for October 13, 2013 in Boonsboro, Maryland. The conference will discuss a host of issues from plan review to in the field implementation of SWM BMPs. There will also be a discussion on the unique issues faced by local jurisdictions on a daily basis, including local geography, development patterns, etcetera. This session would offer guidance for adapting ESD practices to local conditions if they differ from the guidance offered in the Manual.
Pursue various grant funding sources for implementation projects.	Washington County staff anticipate grant opportunities at the Chesapeake Bay Trust to open for Restoration and Retrofits, Environmental Education and Outreach. Washington County Staff will monitor for openings and apply for grants as applicable to promote the goals of the WIP program. Staff will also inquire with the Department of Natural Resources as to assistance through the Watershed Assistance Collaborative for possible funding opportunities.
Education of citizens on the WIP and how they can reduce the nutrient and sediment load in Washington County.	This is an ongoing project for Washington County Staff. Current projects include a pet waste campaign and stormwater inlet stenciling. Staff have also attended the Green Fest and Home Builder Show to talk to residents about the WIP.
Continue to work with MDE staff on refining the load reductions assigned to Washington County.	Washington County staff has enjoyed an open dialog with MDE staff and regularly discuss on the upcoming MS4 Phase II NPDES permit renewal; the WIP requirements of the permit and providing updated land use data for refinement of the model.
Urban Sector applicability still under review and/or agency serves multi-sectors	
<i>Town of Boonsboro</i>	
Annual clean-up of stream in Shafer Park with various organizations, including Boonsboro Recycling Task Force and Boy Scout Troops.	Completed
Begin a televising study of the sewage collection system to identify I&I problem areas in FY12.	Implementation contingent on funding availability and Mayor and Council approval.

FY12, begin planning of stream buffer areas and conservation easements on Town Farm Property and Shafer Park. Implementation contingent on funding availability and Mayor and Council approval.	Began working with Soil Conservation district to establish best management practices for Town Farm.
FY12, begin planning with King Road Association on potential stream buffer project on property. Implementation contingent on funding availability and Mayor and Council approval.	In planning phase - Boonsboro Environmental Committee established two sub-committees, Waste Reduction and Trees, to identify and plan for actions. Began participation in Sustainable Maryland Certified program.
Work with local WIP Implementation Team on development of educational outreach on WIP related issues.	Educational Programs under development.
FY12/13 - Implement reforestation plantings in Shafer Park for Fletcher's Grove. Implementation contingent on funding availability and Mayor and Council approval.	Under review - Boonsboro Environmental Committee established two sub-committees, Waste Reduction and Trees, to identify and plan for actions. Began participation in Sustainable Maryland Certified program.
FY12 - continue working with property owners to address broken cleanout caps in an effort to reduce inflow and infiltration in the sewage collection system.	Established Boonsboro Environmental Commission to develop and promote a healthy environment of the Town of Boonsboro through sound conservation and sustainable practices; encourage responsible waste management; energy and resources conservation; and studying other issues that affect the public health and well-being of the citizens of the Town of Boonsboro.
Mechanical Street Sweeping of all streets in the Town on a bi-monthly basis. 13.39 miles. Evaluate the potential reduction and financial feasibility of expanding the program for load reduction. Implementation contingent on funding availability and Mayor and Council approval. Implementation of program changes contingent on financial feasibility and approval of Mayor and Council.	Under analysis to determine benefit in MAST versus financial feasibility.
Annual Green Fest event to promote, educate and encourage environmentally friendly actions.	Annual event held in April 2013.
<i>Town of Clear Spring</i>	
Annual cleaning of storm drains and culverts.	Cleaning was completed.
Analyze potential of mechanical street sweeping for load reduction in Town. 1.97 miles. Implementation is contingent on financial feasibility and approval of the Mayor and Council.	Under analysis to determine benefit in MAST versus financial feasibility.
<i>Town of Funkstown</i>	
Mechanical street sweeping completed on an as needed basis. Typically at least once per year. 3.92 miles. Analyze potential of expanding mechanical street sweeping for load reduction in Town. Implementation is contingent on financial feasibility and approval of the Mayor and Council.	Street sweeping will be completed this fall.
Cleaning of storm drains and culverts on a minimum of an annual basis.	The storm drains and culverts were cleaned this past Spring, and will be cleaned again in the Fall.
Pursue grant funding from POS for tree planning.	The Town has been approved for a POS grant that will begin late Summer, and will include several trees to be planted.
<i>Town of Hancock</i>	
Investigate the potential of mutual projects with C&O Canal to address storm water in Town. Implementation contingent upon National Park Service and Mayor and Council approval and additional on financial feasibility.	Town has had meetings with the C&O Canal staff. C&O currently has no funding for work of this nature. Additional meetings will be held to continue pre-planning of potential projects.

Mechanical street sweeping completed twice per year on 11.25 miles. Analyze potential of expanding mechanical street sweeping for load reduction in Town. Implementation is contingent on financial feasibility and approval of the Mayor and Council.	Town is working on a contract to increase street sweeping with final approval contingent on financial feasibility.
Storm drains and culverts cleaning a minimum of twice per year.	Cleaning has been completed and Town is reviewing the potential of expanding the program.
FY12, cleaning of the stream through Woodmyer Park completed.	Completed
<i>Town of Keedysville</i>	
Mechanical street sweeping will be increased to 5 times yearly (from the present level of 2 times yearly) on 5.75 miles of roadway in town.	Street sweeping completed five times per year.
An educational program of communication with town residents through email and the town newsletter is being implemented advising residents of what individual actions they can take to support the WIP, such as tree planting and installations of rain barrels.	Town has posted information on the website and included in the Town newsletter.
Town Management (Mayor and Council) is exploring ways of interim reporting, milestones and actions taken.	Town has developed a spreadsheet to track BMPs completed in the Town.
Town Management (Mayor and Council) will research the ideas developed by County Staff during a site visit to review what the town can do in support of the WIP. It should be emphasized that no action can be taken on those ideas until full information becomes available on their financial feasibility and approval of the Mayor and Council.	Potential items suggested in the site visit are under review by the Mayor and Council to determine feasibility and funding availability.
<i>Town of Sharpsburg</i>	
No mechanical street sweeping completed in Town. Investigate potential reduction of street sweeping for load reductions. Implementation is contingent upon financial feasibility and Mayor and Council approval.	Under analysis to determine benefit in MAST versus financial feasibility.
<i>Town of Williamsport</i>	
Mechanical street sweeping completed once per week on 9.87 miles.	Completed
Continue ongoing work on sewage collection I&I correction. Level of effort dependent upon budgetary restraints and Mayor and Council approval.	Completed
Completed application for Urban Greening Grant which includes 700 tree plantings.	Completed
Received grant for greening of the main street which includes rain barrel installation, replacement of sidewalk with previous concrete and planting of trees.	Completed
Cleaning of storm drains on a monthly basis.	Completed
Semi-annual cleanup of the stream in the Town Park.	Completed
Hold a benefit concert at River Bottom Park with proceeds being divided between participating WIP stakeholders and utilized for educational and implementation projects for the WIP. Exact projects will be dependent upon amount of funds raised.	Completed

NEW - Planting of 70 additional trees at Springfield Farm.	Applied for grant thru Chesapeake Bay Trust Foundation - Eagle Scout Project
NEW - Cleaning of debris from River Bottom Park	Completed - Springfield Middle School Green Team
Soil Conservation District	
Planning FY12/13 stream restoration project with Crest View HOA. Implementation of project contingent upon approval by all parties and funding.	Project shifted to a lower priority will be completed in the future.
Planning FY12/13 stream restoration project with Washington County Division of Environmental Management for Smithsburg WwTP. Implementation of project contingent upon approval by all parties and funding.	Base survey completed and turned over to County. County will be completing implementation of this project.
Planning FY12/13 stream restoration project with Town of Hancock for Kirkwood Park. Implementation of project contingent upon approval by all parties and funding.	Project has been given a lower priority so efforts may be focused in the Antietam Creek watershed. No plans to move forward with project at present.
Work with Washington County staff on the review of County properties for potential projects. Implementation of project contingent upon approval by all parties and funding.	A memorandum of Agreement was approved by Board of County Commissioners in March 2013 to accomplish this task. Two projects have been completed establishing 2.75 acres of riparian forest buffer at two sites. County has provided base information of all county property to the WCSCD and the WCSCD is evaluating for potential projects for Spring 2014.
Evaluate the potential of painting of storm drain inlets (curb) to signify "Chesapeake Bay" drainage area. Implementation is contingent upon financial feasibility and elected body approvals.	Washington County Government is taking the lead on this project which was launched in August 2013.
Evaluate the potential of installing rain barrels and/or rain gardens on school properties for educational/outreach initiatives. Implementation contingent upon approval and Board of Education approval.	Soil Conservation District will not be pursuing this project.
Tree planting at the Williamsport School Complex (1.0 + acres). (66 trees and shrubs)	Completed
Tree planting at the Black Rock Run Stream Restoration. (300 trees)	Completed
Tree planting at Kirkwood Park in Hancock. (191 trees and shrubs)	Completed
Tree planting at Fountaindale Elementary. (150 trees and shrubs)	Completed
Continue current outreach events at the Home Builder's Show; Green Fest; Urban Conference; Green Card Class; Sharpsburg Heritage Festival; and tree sale.	Outreach completed at Home Builder's Show, Boonsboro Green Fest, Urban Conference, Green Card Class and Tree Sale. Tree Sale results for 2012 - 7,689 trees distributed and 2013 - 6,530 trees distributed. WCSCD is no longer participating in Sharpsburg Heritage Festival.
Evaluate potential locations for rain barrel and/or rain garden projects at Washington County Agricultural and Education Center complex as educational outreach. Implementation is contingent upon funding and approval by appropriate parties.	WCSCD no longer pursuing this project.

Antietam Creek Watershed Restoration Plan	Obtained EPA approval for the Antietam Creek Watershed Restoration Plan in October of 2012, to address the Sediment and Fecal Bacteria TMDL'S. The project was a partnership of the WCSCD, Washington County the Antietam Creek Watershed Alliance, The Canaan Valley Institute and MDE.
Antietam Creek Watershed Restoration Plan - Implementation	Obtained Clean Water Act Section 319(h) funding for two stream restoration projects identified in the Antietam Creek Watershed Restoration Plan in the fall of 2013. One project is on Little Antietam Creek and total the project will restore 3,100 linear feet of Little Antietam Creek and 600 linear feet of Grove Creek. In addition Agricultural BMP's will be installed as well as a Bat septic System for the farm property. The other project will restore 650 linear feet of Beaver Creek.
Washington County Board of Education	
Implementation of 2.85 acres of Forest Conservation for the Ruth Ann Monroe Primary School.	Completed
Implementation of 1.73 acres of Forest Conservation for the Antietam Academy.	Completed
Implementation of 1.9 acres of Forest Conservation for the Bester Elementary School.	School is under construction so this is ongoing.
Continue to offer students a variety of education programs including environmental science courses, watershed field trips to the Potomac River, and the Envirothon competition that focuses on environmental resources management. Students have incorporated rain barrels and rain gardens into several school water management plans as an application of their lessons.	Ongoing
Continue students' participation in additional environmental themed programs at the following specialized facilities: Claude Kitchens Outdoor School at Fairview, Agricultural/Environmental Academy at Clear Spring High School, and the Math Science STEM magnet schools at Springfield Middle School and Williamsport Elementary School.	Ongoing
Installation of rain barrels at Clear Spring Elementary School.	Updated this year.
Stream Bank erosion repair completed at Northern Middle School.	completed
NEW - Miscellaneous WCBOE	Forest canopy cover on the following WCBOE properties: Northern Middle school - planted .5 acres of riparian buffer. Salem Avenue Elementary School - 10 trees. Western Heights Middle School - Planted 10 trees. Maugansville Elementary School - Planted 25 trees. E. Russell Hicks Middle School - planted .65 acres of riparian buffer.
	Performed yearly street sweeping of unknown amount of acres.
Municipal Phase II MS4:	
City of Hagerstown	

<p>Continue the City's current street sweeping program, and possibly expand the scope of the program (i.e. hit more streets more frequently) if the City Council approves additional funding, and if the pollutant reduction benefits are significant.</p>	<p>The Department of Public Works has continued the City's street sweeping program, and has expanded the downtown service area to hit more of the streets in the central code on a weekly basis. DPW is also reviewing the sweeping schedule for the remaining streets in the City, and will look for opportunities to increase the frequencies of service.</p>
<p>Continue (and possibly expand) the City's program to plant street trees throughout the City to increase the overall forest canopy coverage; this program would be contingent upon continued grant funding from DNR and other agencies, and on continued budget support from the City Council.</p>	<p>In 2012 (and continuing in 2013) the City planted approximately 200 trees along the City streets in partnership with the Maryland Department of Natural Resources and the Chesapeake Bay Trust. The City plans to continue this effort to increase our overall forest canopy coverage as long as funding is made available. The City has also tried to involve the public in the tree planting efforts - past projects included tree planting days with students at the Western Heights Middle School and the afterschool program at the Memorial Recreation Center.</p>
<p>Develop plans for the reconstruction/reconfiguration of the lake at Pangborn Park, which will include replacement of existing hardscape surfaces with a more natural lake shoreline, and the restoration of approximately 400 linear feet of the existing Hamilton Run stream channel adjacent to the park. Planning, design, and ultimate construction are contingent upon anticipated grant funding, and General Fund expenditures approved by the City Council.</p>	<p>The City's consultant is preparing 90% construction plans for this project, and the City hopes to go to construction before the end of 2013 for Pangborn Park / Hamilton Run Restoration.</p>
<p>Under direction from the City Council, study additional sections of Hamilton Run, Marsh Run, and Antietam Creek within the City's corporate limits to identify sites for future stream restoration projects.</p>	<p>City staff have completed a preliminary inventory of potential stream restoration project sites along Antietam Creek and Hamilton Run. The City is seeking grant funding to hire a consultant to prepare conceptual designs for future stream restoration projects at these locations, and will include these projects in future Capital Improvement Project budget requests.</p>
<p>Study, and possibly implement (based upon City Council approval), an Urban Nutrient Management Plan for City-owned facilities with significant amounts of maintained turf area (e.g. Fairgrounds Park, Hagerstown Greens golf course, other parks and playgrounds, etc.)</p>	<p>City staff have presented the idea of an Urban Nutrient Management program to the City Council for their consideration; this program would place restrictions on the use of fertilizer and other amendments on the City-owned properties such as parks, playground areas, the City's golf course, and other facilities. Given that there is some uncertainty over the "value" of these efforts with regard to pollutant reduction in the Chesapeake Bay Model, the Council has decided to delay implementation until additional guidance is provided by MDE/EPA.</p>
<p>Study the feasibility of an expanded Urban Nutrient Management program to reduce pollutant loads from non-City owned facilities and properties. Facilities that would be investigated include Board of Education Facilities within the City's corporate limits (e.g. North High, South High, and other school facilities), Rose Hill cemetery, and possibly larger commercial sites. This effort would require the support of the City Council, as well as the cooperation of the affected private property owners and agencies. Ultimately, the study could be expanded to look at a City-wide Nutrient Management program for all properties within City limits.</p>	<p>City staff also raised the idea of expanding an Urban Nutrient Management program to cover all lands within City limits (public and private). As mentioned above, the Council will wait to consider implementation of such a plan until additional guidance is available from MDE/EPA.</p>

In anticipation of load reduction requirements likely to result from WIP and NPDES regulations, begin initial studies to identify existing storm water management facilities that could be retrofitted to improve water quality, and studies to identify potential sites for the construction of new storm water management facilities to provide "treatment" for pre-1985 impervious areas.	The City, with the assistance of a grant from the Chesapeake Bay Trust, has hired URS Corporation to identify/rank potential sites for stormwater retrofit projects, and to develop conceptual designs for some of the highest-ranked sites. The City expects URS to complete this initial in May 2013. The next step will be to prepare Requests for Proposals to develop design/construction plans for some of these retrofit projects, with the hope that actual construction on some projects may begin in 2014. At this point, the City is still waiting for issuance of its new NPDES Phase II General Permit; once a draft permit is issued for review, City staff anticipate that these retrofit projects will become an important part of complying with the future permit.
If so directed by the City Council, begin preliminary studies on the feasibility of potential funding mechanisms to pay for anticipated storm water improvements. Mechanisms could include a future Storm Water Utility Fee, or other programs to develop a revenue stream to pay for the required improvements.	City staff have discussed the concept of the implementation of a Stormwater Utility Fee to raise some of the revenue that will be required to fund the projects identified in the Phase II WIP. While the City Council recognizes that development of such a fee is likely inevitable, they are waiting to see if legislation mandating this fee is proposed at the General Assembly. At this point, City staff have not been authorized to proceed with development of a Stormwater Utility Fee.
Town of Smithsburg	
Annual Mechanical Street Sweeping of all Town streets. 12.17 miles.	Completed
Evaluate potential of expanding the street sweeping program; planting of additional trees and education outreach on rain gardens and barrels for load reduction potential in meeting the loading allocation. The implementation of these practices is dependent on adoption of the Mayor and Council and funding availability.	The review and evaluation of these programs is ongoing.
Continue investigation of sewage collection system I&I problem areas and schedule repairs based on financial capabilities.	Some repairs made in 2012 and 2013. This will continue in FY14 and FY15.
Non-regulated Urban	
Review potential of Urban Nutrient Management Plan for load reduction potential and financial feasibility.	This plan is still under review and will be based upon the parameters established in MAST. Implementation dependent on funding.
Annual mechanical street sweeping of 863 miles in both regulated and non regulated urbanized areas and also in non-urbanized areas.	Under investigation for financial feasibility
Reviewing the potential storm water retrofits and bio filter projects for roadways that could be included in County CIP. Final inclusion and implementation contingent upon funding and approval by Board of County Commissioners.	Ongoing
Septic Tanks	
Based on current BRF funding levels from MDE approximately 20 systems are upgraded each Fiscal Year. Contingent upon funding from the BRF, approximately 40 BAT systems will be installed in FY12/13.	43 BAT units were installed under the BRF program for FY12/13. An additional 8 BAT units were voluntarily installed.
Review current septic tank repair policies for 1 acre lot sizes and sensitive areas for potential changes to incorporate the requirement of BAT. Implementation of new policies proposed in FY14 contingent upon approval from overseeing authority.	New State regulations address this action.

Proposed actions from Health Department	
Effective July 1, 2013 (FY14) all repairs on 1 acre lot size or smaller will be BAT technology.	New State regulations address this action.
Effective July 1, 2013 (FY14) all new septics and all repairs in sensitive areas will be BAT. (Note only repairs can be counted in BAT)	New State regulations address this action.
Wastewater Treatment Plants	
Washington County Division of Environmental Management	
FY12/FY13 - Receive approval of the Preliminary Design Report for the Conococheague WwTP ENR Upgrade project from MDE and begin design.	Still under MDE review.
FY12/FY13 - Receive approval of the Preliminary Design Report for the Winebrenner WwTP ENR Upgrade project from MDE and begin design.	Preliminary Design report was approved and the project is currently under design.
Actions under review of the Washington County Watershed Implementation Team with implementation contingent upon approval from overseeing authorities and receipt of funding.	
Analysis of Urban Nutrient Management Plan program in Washington County.	This plan is still under review and will be based upon the parameters established in MAST. Implementation dependent on funding.
Review and establish a County reporting and tracking system for WIP implementation.	Development of a tracking system is under way by County Staff.
Review potential septic connections to public sewer systems.	Ongoing - several areas have been identified.
Development of educational outreach programs.	Educational Outreach program development are on going. County staff have launched a Pet Waste Campaign and Stormwater Inlet Stenciling program.
Review of alternatives to achieve the reductions required in the septic sector including funding requirements and potential sources for presentation to the BoCC to obtain directions and approvals.	Alternatives have been evaluated and the report was presented to the BoCC. This report was included with the County Phase II WIP Plan.
Review current tracking, verification and reporting methods of all agencies involved in WIP activities for development of a central consolidation of this information to enhance WIP and local watershed management.	Ongoing evaluation.