

Prince George's County 2016–2017 BMP Implementation Two-Year Milestones

BMP Implementation Milestones (July 1, 2015 – June 30, 2017) are expressed as the amount of various types of restoration activities, e.g. structural BMPs, which have geo-located coordinates. The practices can be described by various units, like acres, linear feet, or numbers of systems. This period for BMP Milestones differs from the period for Programmatic Milestones, which covers the calendar years 2016 and 2017. The difference allows the State time to consolidate, process and submit BMP data to the federal US Environmental Protection Agency's Chesapeake Bay Program Office.

Municipal Wastewater Treatment Plants & Onsite Wastewater (Septic) Systems

Action	Lead Agency	Proposed Restoration Rates (2-years)	Actual Rate for 2016–2017	Percent Progress	Narrative/Notes
Municipal Wastewater Treatment Plants					
Treatment Plant Upgrade	WSSC	1 upgrade	1 upgrade	100%	The Western Branch ENR upgrade was completed in June 2016.
Onsite Wastewater (Septic) Systems					
BAT septic replacements	Health Depart.	24 systems	48 BAT systems 4 connection to a public ENR sewer system	217%	Number of systems is combined count of remodeled on-site systems and new construction projects during the period.

Stormwater

Action	Lead Agency	Proposed Restoration Rates (2-years)	Actual Rate for 2016–2017	Percent Progress	Narrative/Notes
SWM Retrofits (e.g., ESD/LID)	DoE	1,753 impervious acres treated	505 acres	29%	Implementation through County CIP program, Clean Water Partnership, <i>Rain Check Rebates and Grant Program</i> , <i>Alternative Compliance Program</i> , M-NCPPC, and DPW&T's <i>Green Complete Streets Program</i> . Includes projects to be completed in FY16 and FY17. Does not include projects in planning or construction phase.

Action	Lead Agency	Proposed Restoration Rates (2-years)	Actual Rate for 2016–2017	Percent Progress	Narrative/Notes
Retrofit existing stormwater facilities (e.g., dry ponds)	DoE	5 ponds; 85 impervious acres treated	11 ponds; 791 impervious acres	220% / 930%	Implementation through County CIP program and Clean Water Partnership. Includes projects to be completed in FY16 and FY17. Does not include projects in planning or construction phase.
Stream Restoration	DoE	4,500 linear feet	1,827 linear feet	40.6%	Implementation through County CIP program. Includes projects to be completed in FY16 and FY17. Does not include projects in planning or construction phase. Note: In FY2017, the County worked with WSSC to identify their completed stream restoration projects. This identified 9,699 linear feet of restoration, which was previously not reported to MDE.
Street Sweeping	DPW&T	3,500 miles (rate)	1,574 miles (FY 2016) 1,491 miles (FY 2017)	44.9% / 42.6%	DPW&T plans to maintain this program at the current rate.
Storm Drain Cleaning	DPW&T	125 basins (rate)	53,772 linear feet of drainage channel 172,135 linear feet of storm drain network pipes	> 100%	A new JetVac contract was issued in January 2016, which resulted in the increase in inlet and storm pipe cleanup efforts. DPW&T plans to maintain this program at the current rate.
Urban Tree Canopy Planting	DoE, DPW&T	4,000 trees	DoE: 3,942 DPW&T: 10,634 Total: 14,576	364%	Implementation would be through DoE's <i>Tree ReLeaf Grant</i> , Arbor Day Every Day (schools), Rain Check Rebate, and DPW&T's <i>Volunteer Tree Planting</i> , the Prince George's County <i>Master Gardeners</i> , the County CIP program, and the Natural Filters grant program. (Note: Some DPW&T trees might include replacement trees.)
Reforestation	DoE	62 acres	20.3 acres	66.5%	Implementation through County CIP program. Includes projects to be completed in FY16 and FY17. Does not include projects in planning or construction phase.

Prince George's County 2016–2017 Programmatic Two-Year Milestones

Programmatic Milestones (January 1, 2016 – December 31, 2017) identify the anticipated establishment or enhancement of the institutional means that support and enable implementation (e.g., funding, authorities, enhancing existing programs and resources, designing and establishing new programs, studies).

Target Date	Milestone	Deliverable	Lead Agency	Comments/Final Status Updates
Urban Stormwater				
2017	The County will aggressively seek and apply for grant funding opportunities from various Federal and State agencies to assist in WIP implementation.	Awarded grants and their deliverables	DoE	The County has applied for several new grants and is continuously looking for additional grant opportunities. The County has contracted with a non-profit organization to aid in identifying and applying for grants.
2016	The County will evaluate funding to see if any adjustment is needed for both the existing Stormwater Tax and the new Stormwater Fee.	Funding study	DoE	This is an ongoing metric which is based on current expenditures. The County can use other options, such as State Revolving Funds (SRF) for fulfilling revenue gaps.
2016	Prince George's County initiated a two-phase research study with the University of Maryland (UMD) to determine BMP efficiencies for new technologies to reduce nutrients in a more cost effective manner. The preliminary research results are very encouraging. For instance, the removal efficiency for total phosphorus is reaching approximately 90 percent with the new design materials. The County will continue this effort with UMD. The strategy requires full partnership of MDE and EPA to ensure that the County reaches its 2017 and 2025 goals.	BMP efficiencies for the new technologies	DoE	The County is continuing its partnership with the UMD through applying for grants to fund additional research projects, such as determining pollution reduction efficiencies for new dry pond retrofit technologies.
2017	DoE partnered with UMD in the determination of fast flow media application at two pilot locations in Prince George's County: Camelot subdivision and 1801 McCormick Drive. This work entails monitoring of the performance of BMP installation with high flow media.	Final report on BMP performance	DoE	Installation of devices at Camelot is complete. Monitoring is ongoing and will be completed in FY 2018. The 1801 McCormick Drive project was not initiated.
2017	DoE will partner with UMD to research the use of soil aeration and soil amendments as method to reduce nutrients and sediment loadings. DoE and UMD anticipate these activities have similar nutrient and sediment reductions to impervious disconnection, because of the stormwater runoff they will retain. This research would use grant funds, if grant funds are acquired.	BMP efficiencies for the new technologies	DoE	The County applied for the grant in September 2017 and is waiting to hear on the outcome of the application.
2017	There is no standardized Prince George's County database for data collection	Standardized data	DoE with	The County completed a gap analysis

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	<p>across county agencies. Therefore, the Department of the Environment (DoE), the Department of Public Works and Transportation (DPW&T), the Department of Permit, Inspection, and Enforcement (DPIE), Soil Conservation District (SCD), and the Maryland National Capital Park and Planning Commission (M-NCPPC) will continue working together to build a standardized data collection methodology regarding BMPs, land use, permit issuance, and other data related to analyzing existing and future growth and WIP implementation. The County is currently evaluating tracking and reporting methods using MDE's new geodatabase reporting format established under the MS4 permit. Funding for this work has been requested by July 2016. This work should be concluded in 2017.</p>	collection database.	DPW&T, DPIE, SCD, and M-NCPPC	<p>workshop with ESRI and the County's Office of Information Technology. The analysis identified the need to implement a County-wide MS4 GIS Enterprise System in order to track and document all the program information required by MDE for reporting. A request for partial FY 2018 funding to start the project has been requested from the County Council. Final project approval is subject to County council budget authorization.</p> <p>M-NCPPC Staff continued to follow the development of a high-resolution land use dataset being developed by the Chesapeake Bay Conservatory. The dataset and the methodology to build it are completed. The next step is to expand this to future land use scenarios. This task needs to be assigned.</p>
2017	<p>The County Council Bill (CB) 40 has established Rain Check Rebate Program and the Stormwater Stewardship Grant Program through the Chesapeake Bay Trust to provide incentives to individuals, non-profit organizations, commercial businesses and other properties located with Prince George's County, to invest in green stormwater retrofits to improve water quality. DoE will continue to fund the program and identify opportunities to work with private nonprofit organizations to evaluate, design, and construct smaller BMPs on private properties, to provide treatment of impervious areas to meet the MS4 Permit, and the WIP requirements.</p>	Newly installed BMPs on private properties (Impervious acres will be reported in the BMP milestone updates)	DoE	<p>This program is continuing. Through the Rain Check Rebate Program, 299 micro-BMPs were installed in FY 2017 on private properties. Under its Stormwater Stewardship Grant Program, the County funded a total of 23 projects at a total cost of \$2,051,010. The projects in the FY 2017 grant program included on-the-ground efforts such as rain gardens and bio-retention practices, as well as outreach campaigns to engage citizens in schools, faith-based organizations, and their neighborhoods.</p>

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2017	The County anticipates increasing the amount of street sweeping it performs each year. To do this, a new street sweeping contract will be issued by 2017. The new enhanced sweeping program will eventually target the annual restoration of 2,000 acres of equivalent impervious acres (per MDE guidance). The County will review potential funding sources and identify the best suitable streets for the enhanced program during 2016.	Updated sweeping plans and procedures, list of suitable streets, street sweeping contract, updated street sweeping values for annual MS4 report	DoE/DPW&T	The County plans to maintain the street sweeping program in accordance with established routes and frequency and not expand. A new street sweeping contract was not awarded.
2017	DoE will work with local municipalities to obtain their BMP implementation information for inclusion in the County's future NPDES annual reports and geodatabase.	Updated BMP information in MS4 geodatabase	DoE	In 2016, DoE conducted a municipal forum to streamline the municipal reporting under the MS4. Additionally, the County has initiated a task order with one of its on-call contractors to contact the local municipalities. The project identified an additional 34 BMPs that were not included in the County's BMP database. Information on these BMPs will be submitted to MDE.
2017	The County will develop a watershed restoration plan for the County's Western Branch watershed using grant funds, if grant funds are acquired. Restoration plans for the County's local TMDL watersheds were submitted to MDE in 2015. Western Branch does not have a stormwater WLA, so there is not a current specific restoration plan	Restoration Plan for Western Branch	DoE	The grant agreement was signed and work was started in December 2017. The final report is expected in December 2018.
2018	DoE has developed a new financial/business model to increase the rate of the County's stormwater management CIP project implementation by partnering with Corvias Solutions to form the Clean Water Partnership (CWP). Through CWP Program, at least 2,000 untreated impervious acres will be retrofitted by 2018. The program would be funded from the new Water Quality Fees as proposed in HB 987. The key elements for success of the CWP are- (a) the development and use of a combination of traditional and innovative stormwater retrofit approaches, including Low Impact Development/Green Infrastructure Practices, to treat 2,000 acres of impervious area within 3 years for \$100M; (b) long-term project sustainability; and (c) meeting the CWP's social and economic development goals, including (1) target class and local-based small business participation, (2) County resident participation (employment man-hours), and (3) Mentor Development and Business Incubator Programs.	Newly installed BMPs (Impervious acres will be reported in the BMP milestone updates)	DoE	This program is ongoing. As of December 1, 2017, completed projects have restored 832 acres of impervious area. Furthermore, projects restoring approximately 1,000 impervious acres are in design or construction stages. Because of the CWP, the County saw a 74-percent increase in water quality improvement projects in either the planning phase, under construction, or completed (from 299 in FY 2016 to 519 in FY 2017).

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Public Outreach				
2016	<p>By July 2016, DoE will complete its Outreach Strategy to promote public outreach and education customized to the environmental and social characteristics of the County's varied communities. The Strategy will focus on the following 7 topics:</p> <ul style="list-style-type: none"> • Anti-littering • Best practices for car washing and car care • Household hazardous waste reduction/recycling • Lawn stewardship to reduce runoff and reduce chemical/fertilizer use • Pet waste pickup • Promotion of tree planting to increase tree canopy • Residential and community stormwater management and implementation (including roof and parking runoff) <p>The Strategy will form the foundation for launching campaigns with initial emphasis on stormwater, anti-littering, pet waste and increasing tree canopy. DoE has developed a lawn care presentation (called <i>Green Housekeeping; Good Housekeeping</i>) that has been incorporated into the Outreach and Education displays/presentations/games.</p>	Outreach strategy and campaigns	DoE	DoE completed the Outreach Strategy (September 2016) and has used it as the foundation for the Pet Waste Management Campaign and to enhance the Tree Campaign. As recommended in the Strategy, DoE has partnered with Chesapeake Bay Trust to help launch the pet waste campaign and promote tree planting to increase tree canopy.
2017	DoE will enhance its partnership with the Prince George's County Master Gardeners to promote eco-friendly lawn care. The information in the Outreach Strategy will provide the foundation to target this effort.	Outreach strategy	DoE	The Master Gardeners have been working on this milestone as indicated by increasing lawn care and pesticide related events/lectures.
2017	A pet waste campaign will be launched over the next two years. It will be multi-branched approach involving installation of pet waste stations and education. We will pilot the effort in several areas to evaluate the best delivery technique(s). The success of the effort would be evaluated to allow adjustments and then launched to larger geographic area based on water quality and socio-economic needs. The County has allocated \$60,000 for a consultant to evaluate the options and feasibility of alternative dog waste disposal systems to avoid use of plastic bags.	Outreach strategy and pilot project results	DoE	DoE partnered with Chesapeake Bay Trust to provide funds for proper pet waste disposal education and outreach, install pet waste stations, develop an advertisement campaign for the community, monitor the stations, and maintain the stations for up to one year through the DoE Stormwater Stewardship Grants. In April 2017, a Pet Waste Summit was held to officially launch the campaign. Through the Stormwater Stewardship grants three communities and six municipalities will be working with either People for Change Coalition or

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				<p>the University of Maryland Environmental Finance Center. Approximately 70 stations will be installed and monitored over the next two years. DoE has also begun promoting proper pet waste disposal education and outreach participating in 10 events as well as partnering with the City of Greenbelt. With the assistance of EFC materials have been translated to Spanish.</p> <p>In June 2016, Evaluation of Effectiveness of Outreach Materials was completed and outreach materials were produced. In August 2016, the evaluation of Alternatives for Pet Waste Disposal was completed. This report investigated methods that could be adopted by County residents for pet waste pickup as well as alternative practices.</p>
2017	The county plans to increase its reach into local communities and enhance coordination with local and state agencies on trash reduction campaigns. The County plans to build partnerships with local entities to increase litter prevention and reductions to meet MS4 and trash TMDL requirements and improve community well-being.	Trash reduction campaigns and partnerships	DoE	DoE launched PGC LitterTRAK and LitterTRAK mobile apps which allow volunteers, partners and local/State personnel to report the amount and types of litter collected in cleanup activities. DoE continues to engage communities in semi-annual inter-governmental neighborhood cleanups through Clean Sweep program. The Adopt-a-Stream Program has been launched; to date, volunteer organizations have adopted 2 stream miles for quarterly litter cleanup events. NOAA awarded the County grant funding to support purchase/design/installation of trash

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				traps in the Anacostia River watershed and development of anti-litter outreach and education materials and tools. DoE partnered with M-NCPPC on a grant application for the purchase and operation of a skimmer boat for litter removal and development of anti-litter educational material and tools
Planning				
Fall 2016	Update the Green Infrastructure network to reflect the regulatory changes implemented in 2010. Regulatory changes included wider minimum stream buffers, additional areas of slopes included in the regulated buffer, and various improvements to the woodland conservation requirements. Track any new parameters required by MDE.	Revised network map	M-NCPPC Planning	This milestone has been completed.
Fall 2016	Update the Green Infrastructure Plan's policies and strategies to address coordination with the WIP and address common goals. Text revisions include updated measurable objectives and revised policies and strategies. Plan's measurable objectives will support WIP goals and desired outcomes.	Revised plan text	M-NCPPC Planning	This milestone has been completed.
2017	The M-NCPPC Planning Department completed a future land use map for Prince George's County as part of Plan 2035. The department will develop guidelines for updating the existing land use map for future planning efforts.	Land use update guidelines	M-NCPPC Planning	This milestone is currently in progress. The map is to be updated after the adoption of each master or sector plan.
Municipal Wastewater Treatment Plants & Onsite Wastewater (Septic) Systems				
July 2016	Update Department's Sewage Disposal System Plan Review Guide to incorporate latest applicable MDE COMAR regulations.	Existence of updated guidance manual	Health Dept./DPIE	This milestone is in progress. Development slowed due to legislative change to only require BATs in Critical Area. As of December 31, 2017, the draft guide was waiting for final review. It is expected to be finalized in January 2018.
December 2016	Develop PowerPoint show and scripting for presentation to rural community groups on availability and process of BRF funding.	4 community outreaches/year	Health Dept.	This milestone has not started.
December 2016	Improve efficiency of Office of Law reviews/Administrative Review Committee process of Memoranda of Understanding for issuance of BRF funds.	Reduce total turnaround time to two weeks	OoL/DCAO/Health Dept.	This milestone is ongoing.

Descriptions

- **Target Date:** Expected date/year to accomplish the milestone. For Milestones that involve multiple steps, the target dates can serve as a guiding schedule.
- **Milestone:** This can be a short title or brief description of the milestone. For Milestones that involve multiple steps, this column can identify the steps.

- **Deliverable:** This is the tangible outcome of the milestone. It can be a written strategy, a study, correspondence, briefing materials, an ordinance, a guidance manual or operating procedures, public meeting minutes, etc.
- **Lead Agency:** Ideally, this should be one entity to avoid diffusion of responsibility. However, other coordinating agencies and partners may be identified.
- **Comments/Status Updates:** This may be used initially to clarify or qualify the milestone commitment. During Interim and Final Milestone reporting, this column is used to describe the status of progress. This is the only column that should change during the milestone period. If a milestone is dropped or substantively changed, it should remain in the table, but the change can be noted in this column.