

**Harford County 2016 - 2017 Programmatic Two-Year Milestones  
(Amended February 11, 2016)**

Target Date	Milestone	Deliverable	Lead Agency	Comments/Status Updates
<b>SEPTIC SYSTEMS</b>				
On-going	Continue to use BRF money to upgrade existing septic systems with Best Available Technology or public sewer connections.	It is anticipated that 100 existing septic systems will be upgraded or connected to public sewer per year.	Harford County Health Dept. (HD)	
On-going	HD will continue to work with the Harford County Department of Public Works (DPW) to identify properties that have direct sewer connection capability within the County's Development Envelope	List of properties	HD & DPW – Water & Sewer	
2016/2017	Provide information to property owners identified above regarding the possibility of receiving funding to connect to public sewer	Outreach	HD	
On-going	Maintain up-to-date spreadsheet of all properties with BAT units	Spreadsheet	HD	
Annually	Ensure connections to public sewer are reported to MDE for WIP credit	Reporting to MDE	HD, DPW – W&S, P&Z	
<b>URBAN STORMWATER</b>				
On-going	Continue to negotiate the conditions of the MS4 Permit with MDE	MS4 Permit	DPW	
2017	Continue to coordinate with MDE for nutrient trading for	Coordination	DPW	

Target Date	Milestone	Deliverable	Lead Agency	Comments/Status Updates
	MDE			
Ongoing	Continue local Historical BMP Clean-up	BMP Clean-up	DPW	
2017	Associate BMP approval information with maintenance information		DPW	
2017	Migrate MS4 data into the MDE geodatabase format	Coordination	DPW	
2017	Complete watershed restoration plans for Bynum Run, Swan Creek and Bay TMDLs	Plans	DPW	
2017	Illicit Discharge Detection and Elimination Program (IDDE)	Pre-screen 200 outfalls / year for increased hotspot identification and corrections	DPW	
<b>BUFFER PLANTINGS/REFORESTATION</b>				
2016/2017	Review existing programs/regulations to explore options for increasing the amount of forest cover/buffer plantings	Options for amending programs/regulations	P&Z	
2016/2017	Pursue implementation of the Urban Tree Canopy Study strategies		P&Z	
2017	Begin developing a Green Infrastructure Plan that will help prioritize funding for planting projects	Plan	P&Z	
2016/2017	Explore programs and develop policies that increase reforestation/tree plantings on private property	Plantings on private land	P&Z	

Target Date	Milestone	Deliverable	Lead Agency	Comments/Status Updates
2016/2017	Work with Homeowner's Associations throughout the County to promote forest plantings	Plantings on HOA land	P&Z	
Annual	Continue to host the annual Arbor Day celebrations to help increase tree canopy & promote environmental stewardship	Arbor Day tree planting	P&Z	
<b>GENERAL</b>				
On-going	Coordinate with the State on any new Programs/Regulations to promote WIP implementation developed during the 2016-2017 timeframe	Coordination	P&Z	
<b>TOWN OF BEL AIR</b>				
2016/2017	Investigate budget needs to meet the requirements of the MS4 Phase II permit and develop strategies for funding gaps	Funding in designated fiscal year	Bel Air	
2017	Complete a comprehensive Stormwater Management Plan for the Town (Complete a comprehensive study to identify, map, and analyze the Town's current Storm Water Collection System as well as benchmark the existing impervious surface area).	Plan	Bel Air	
On-going	Review canopy coverage and the establishment of a coverage	Plan – posted on website	Town's Tree	

Target Date	Milestone	Deliverable	Lead Agency	Comments/Status Updates
	minimum for future tree stand development		Committee	
On-going	Private Water Conservation for residents & businesses	\$3,000 in funding-part of FY15 (to be carried over)	Bel Air	
<b>CITY OF HAVRE DE GRACE</b>				
Dec 2017	GIS mapping of SWM infrastructure for our Illicit Discharge and Detection Elimination (IDDE) Program.	Remaining 60% of City to be mapped	City	Working with MDE for a grant proposal to hire a contractor and complete GIS mapping for 100 outfalls. Estimate 30% to be completed each year if grant approved.
Dec. 2017	Expand GIS workstations to employees across all City Depts for MS4 Permit compliance.	Hardware, Software, and Training Implementation	City	\$60 K budgeted in FY 16. Researching various systems and products.
Dec. 2017	Investigate budget needs to meet the requirements of the next MS4 Phase II permit and develop strategies for funding gaps	Additional funds	City	No change. MS4 permit renewal has not been initiated at this time. Therefore, any new requirements and budgeting for them remain TBD.
Dec 2016	Develop a multi-year capital improvements program (CIP) for determining priority projects to meet current and future water quality targets.	Project list.	City	This CIP would determine best use of known funds and potential grant funds for projects with greatest cost/benefit for meeting water quality targets within the older portions of the City.
On-going	Use of the new 2009 Stormwater Management regulations for all new projects; adopted by local ordinance in 2010.	Development project review.	City	
On-going	Inspect BMPs to ensure that are maintained by the property owner.		City	

Target Date	Milestone	Deliverable	Lead Agency	Comments/Status Updates
CITY OF ABERDEEN				
November 2016	Tree planting in reforestation area in the Fields at Rock Glenn subdivision		City	The City utilized forest conservation funds for the reforestation project.
January 2017	GIS mapping of SWM infrastructure		City	The City will begin the mapping in the summer of 2016 and complete the project by January 2017
January 2017	Evaluate and measure SWM infrastructure for the MS4 Permit		City	
On-going	Maintain a complete data base of BMPs within the City and update them frequently, transfer data into GIS mapping		City	
2016/17	Seek grant funding to complete retrofits and implement BMPs that will reduce N, P and sediment loadings.		City	
2016/17	Seek design and construction assistance (grant funding) for a completed conceptual design for SWM (water quality) in the City's well field for the reduction of N, P, and TSS.		City	
On-going	Identify various water quality initiatives throughout the City that can be utilized by developers to offset stormwater management requirements		City	To be managed on a case-by-case basis.

## **2016 – 2017 TWO-YEAR MILESTONES – HARFORD COUNTY**

### **PROGRAMMATIC BMP MILESTONES**

**(Amended February 11, 2016)**

#### WASTEWATER TREATMENT PLANTS

- Construction of the ENR Sod Run WWTP (20.0 MGD capacity) is complete. County will continue performing ENR standards as required.

#### SEPTIC SYSTEMS

- Harford County will continue to use Bay Restoration Fund money to upgrade existing septic systems with Best Available Technology or public sewer connections. It is anticipated that 100 existing septic systems will be upgraded or connected to public sewer per year.

#### URBAN STORMWATER:

##### Implementation (Jul 2015 – Jun 2017) FY16 & FY17

- Complete two (2) watershed restoration plans
- Complete planning for five (5) projects
  - Foster Branch at Still Meadow Stream Restoration
  - Bear Cabin Branch at Chestnut Hill Stream Restoration
  - Woodland Run Stream Restoration
  - Foster Branch at Route 40 Stream Restoration
  - Plumtree Run at West Gate Stream Restoration

- Construct restoration designs for twelve (12) projects
  - Abingdon Library SWM Retrofit
  - Church Creek Elementary SWM Retrofit and Stream Restoration
  - Jarrettsville Highway Shop SWM Retrofit
  - Ring Factory Elementary SWM Retrofit and Stream Restoration
  - Country Walk 1B SWM Retrofit
  - Sunnyview Stream Restoration
  - Willoughby Beach Extended SWM Retrofit and Stream Restoration
  - Foster Branch at Dembytown Stream Restoration
  - Heavenly Stream and Wetland Restoration
  - Leight Center Parking Lot Green Infrastructure
  - Plumtree Run at Barrington SWM Retrofit and Stream Restoration
  - Northwest Branch Declaration Run SWM Retrofit and Stream Restoration
  
- Complete restoration construction for 9 projects
  - Lower Wheel Creek SWM Retrofit and Stream Restoration
  - Abingdon Library SWM Retrofit
  - Jarrettsville Highway Shop SWM Retrofit
  - Ring Factory Elementary SWM Retrofit and Stream Restoration
  - Country Walk 1A SWM Retrofit
  - Country Walk 1B SWM Retrofit
  - Sunnyview Stream Restoration
  - Foster Branch at Dembytown Stream Restoration
  - Leight Center Parking Lot Green Infrastructure

#### Implement an Illicit Discharge Detection and Elimination (IDDE) Program

- Begin preliminary screening inspecting outfalls. Expect to pre-screen 200 outfalls per year.

#### BUFFER PLANTINGS/REFORESTATION:

- Pursue additional forest/urban tree canopy plantings as opportunities and funding arise.
- Pursue the development of a Green Infrastructure Plan that will be the foundation of deciding priority areas for planting projects.
- Continue to coordinate with State agencies to increase and / or improve private property riparian buffer and reforestation efforts.

#### GENERAL

Pursue implementation of non-point source nutrient/sediment reduction strategies identified in the Deer Creek and Bush River Watershed Management Plans, as well as other subwatershed action plans.

#### CITY OF ABERDEEN

- The City sweeps all streets biannually and on an annual basis removes leaves in the gutter pan.
- The City has an extensive Inflow and Infiltration Program aimed at removing stormwater from our collection system which will allow the Advanced Wastewater Treatment Plant to operate more efficiently. We are installing inserts to prevent rainwater from flowing into manholes, approximately 300 inserts have been installed and we are 30% complete.
- Completed conceptual design for stormwater management (water quality) in the City's wellfield for the reduction of nitrogen, phosphorus, and total suspended solids. Concept will be used for grant applications to seek design and construction assistance.
- Upgrade of the Swan Meadows residential development (200 homes) infrastructure to include: roads, water, sewer. Partial funding has been dedicated for this effort.

#### TOWN OF BEL AIR:

- Forest Conservation/Tree City USA – Continue street tree plantings with no net loss policy (Street Tree initiative will be addressed through Tree City USA – Urban Tree Canopy initiative)



- Initiate in-street stormwater bioretention projects as part of pedestrian walkway improvement projects
- Partner with Harford County to plan and construct several watershed restoration projects on Plumtree Run
- Town capital improvement projects will require pervious paving and reduction in overall paving wherever possible
- Street sweeping April through October – monthly (weekly in downtown district)
- Loose leaf pick-up October through December; year-round bagged yard waste pick-up

#### CITY OF HAVRE DE GRACE

- Install bio-swales and raingardens where appropriate
- Lily Run – complete 100% engineering designs and required permits for SWM facility, flood mitigation and bio-swales.

Project remains delayed by lack of funds to complete engineering design work. Since a major portion of Lily Run flows through Harford County school system property, there's been some discussion that this remediation could be included in the new high school/middle school project.

- Mitigate Franklin Street sheet flow at river front with bioretention/rain garden  
Design and cost estimate still awaiting funds. Once completed, still plan to apply to Critical Area Commission for permission to use Critical Area Tax Fund to fund project.
- Concord Point (formerly Heritage) Waterfront Park – newly purchased waterfront park to contain Critical Area buffers and bioretention facilities. Park completed with only planting mitigation
- Tree/vegetation planting and explore pervious walkways at the newly resurfaced Old Bay Lane  
No funds allocated for this project in FY 16 budget. Pointing to FY 17 budget currently being drafted.