

**Final Report -Harford County 2014 - 2015 Programmatic Two-Year Milestones
(January 29, 2016)**

Target Date	Milestone	Deliverable	Lead Agency	Comments/Status Updates
SEPTIC SYSTEMS				
On-going	Continue to use BRF money to upgrade existing septic systems with Best Available Technology or public sewer connections.	It is anticipated that 44 existing septic systems will be upgraded or connected to public sewer per year.	Harford County Health Dept. (HD)	69 BATs were installed on existing septic systems. In addition, BRF money was used to connect 11 properties with existing septic systems to public sewer.
2014	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	A plan has been developed to accomplish this task. Step 1 is to develop a map and list of individual properties with septic systems that are adjacent to existing gravity sewers from GIS queries. Step 2 is to evaluate each individual property for feasibility of installing a sewer connection. Step 3 is to provide the list and individual names to the Health Department for them to seek funds and work with property owners to commit to connection to public sewer. Concurrently during this period DPW will continue to evaluate abandonment of existing septic systems during the review of each new Preliminary Plan that is requesting extensions of public sewer. Future steps will be to identify where public main extensions are required to remove septic systems within the approved service area. (Currently two neighborhoods have been evaluated in the Rocks Springs Road area just north of Bel Air that includes 20 existing septic systems and DPW/HD and MDE are working

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				together to provide grant funding. In the next year, plans are to work with the community for support of the project).
2014/2015	Provide information to property owners identified above regarding the possibility of receiving funding to connect to public sewer	Outreach	HD	Information has not been sent to property owners with available sewer connections, due to the lack of available BRF funds.
On-going	Maintain up-to-date spreadsheet of all properties with BAT units	Spreadsheet	HD	Spreadsheet continues to be maintained. MDE has initiated a new reporting database that is used by HD to report BAT connections.
Annually	Ensure connections to public sewer are reported to MDE for WIP credit	Reporting to MDE	HD, DPW – W&S, P&Z	9 septic systems have been abandoned and connected to HC's public sewer system during 2014-2015. Since 2003, 200 septic systems have been connected to the public system.
URBAN STORMWATER				
2014	Continue to negotiate the conditions of the MS4 Permit with MDE	MS4 Permit	DPW	Harford County's MS4 permit was finalized December 30, 2014.
2014	Investigate budget needs to meet restoration requirements and develop strategies for funding gaps	Strategies	DPW	Harford County completed a budget needs analysis and developed potential strategies for funding.
Ongoing	Continue local Historical BMP Clean-up for the Bay watershed model through 2014	BMP Clean-up	DPW	Harford County has reviewed BMPs for Bynum Run and Swan Creek.
2015	Calculate baseline loads for nutrients and sediment	Baseline loads	DPW	Harford County has completed a BayFast model for the County's portion of the Bay TMDL.
Ongoing	Coordinate with MDE on BMP	Coordination	DPW	

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	Tracking and Reporting, using such tools as the SMART Tool and the MS4 Permit On-line Reporting Tool			
2015	Assign attributes to the impervious layer for stormwater management	Attributes	DPW	Harford County completed attributes for all county owned properties.
2015	Coordinate with MDE for the development of trading guidelines between other urban sectors within the County (non-regulated, municipalities, schools, and SHA)	Coordination	DPW	MDE developed trading guidelines, but it remains unclear about working across jurisdictional boundaries.
2015	Continue to coordinate with City of Havre de Grace on the Lilly Run project.	Coordination	DPW	MOU was signed for HDG to move forward with preliminary design.
BUFFER PLANTINGS/REFORESTATION				
2014	Review existing programs/regulations to explore options for increasing the amount of forest cover/buffer plantings on private properties	Options for amending programs/regulations	P&Z	Have reviewed other jurisdictions' programs; Have distributed a brochure in the Deer Creek watershed to generate interest in undertaking buffer plantings.
2014/2015	Pursue implementation of the Urban Tree Canopy Study strategies		P&Z	Attended the Urban Tree Canopy Conference in October 2014; next steps are to further prioritize planting sites and garner interest from property owners.
2014/2015	Explore reforestation/tree plantings on private property	Plantings on private land	P&Z	Similar to "Turf to Tree" Program in Baltimore County and Neighborhood Green Program in Frederick County. Have worked with several private property owners for the Stream Challenge grant plantings; 16.1 acres have been planted to-date on private property.

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2014/2015	Work with Homeowner's Associations throughout the County to promote forest plantings	Plantings on HOA land	P&Z	Contacted one HOA regarding planting at their waterfront park; however, not interested. Have pursued other HOAs, have one new HOA with expressed interest.
Annual	Continue to host the annual Arbor Day celebrations to help increase tree canopy & promote community involvement	Arbor Day tree planting	P&Z	Arbor Day tree planting held April 18, 2014; and April 3, 2015.
GENERAL				
On-going	Coordinate with the State on any new Programs/Regulations to promote WIP implementation developed during the 2014-2015 timeframe	Coordination	P&Z	Participated in Regional WIP Workshops sponsored by the State; receive and disseminate WIP information from the State to the WIP Core Team in the County.
TOWN OF BEL AIR				
2014/2015	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	Additional funding currently proposed in FY17.
	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	Revised to be initiated in 2017 due to funding constraints.
Completed and ongoing	Review canopy coverage and the establishment of a coverage	Plan – posted on website	Town's Tree	The Town will institute measures for a 'no net loss' policy for trees in public spaces as part of

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	minimum for future tree stand development		Committee	the goals of the plan.
	Private Water Conservation for residents & businesses	\$3,000 in funding-part of FY15 (to be carried over)	Bel Air	Rebate incentives for rain barrels and composting bins & recognition for urban wildlife habitat restoration complete in 2014 and continue to 2015. Installation of Pet Waste Station at Rockfield Park.
CITY OF HAVRE DE GRACE				
Sept. 2014	GIS mapping of SWM infrastructure	Remaining 60% of City to be mapped	City	60% remaining. Student intern no longer available. Pursuing contractor option.
Dec. 2015	GIS needs assessment – integrate into new City-wide Edmunds software program for MS4 Permit compliance	Assessment	City	Assessment complete but will be independent GIS provider and not Edmunds. \$60k allocated in FY 2016 Budget.
Dec. 2015	Investigate budget needs to meet the requirements of the next MS4 Phase II permit and develop strategies for funding gaps	Additional funds	City	MS4 permit renewal has not been initiated at this time. Therefore, any new requirements are unknown and cannot be budgeted for.
CITY OF ABERDEEN				
2014/2015	Investigate budget needs to meet the requirements of the next MS4 Phase II permit and develop strategies for funding gaps		City	No funding currently proposed in FY15.
2014/2015	Seek grant funding to complete retrofits and implement BMPs that will reduce N, P and sediment loadings.		City	City staff will be looking at various opportunities for grant funding for this effort.
2014/2015	Evaluate current Road Code for reductions in impervious surface and the use of open section		City	City is reviewing proposed Subdivision Regulations that may comply with the Harford County Road Code.

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	roadways where applicable.			

FINAL REPORT 2014 – 2015 TWO-YEAR MILESTONES – HARFORD COUNTY

BMP MILESTONES

(Amended January 29, 2016)

WASTEWATER TREATMENT PLANTS

- Construction at the Sod Run WWTP (20.0 MGD capacity) is 85% complete, with an anticipated ENR startup of the denitrification filters, filter feed and methanol systems in April 2014. Final completion is scheduled for October 2014

Construction is complete as of January 9, 2015; began performing at ENR standards as required in April of 2014.

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 44 existing septic systems will be upgraded or connected to public sewer per year.

69 BATs were installed on existing septic systems. In addition, BRF money was used to connect 11 properties with existing septic systems to public sewer.

URBAN STORMWATER:

Implementation (Jul 2013 – Jun 2015) FY14 & FY15

- Complete two (2) watershed restoration plans
 - Mariner Run (on hold)

- Rumsey Island (on hold)
- Complete thirteen (13) restoration designs
 - Bynum at St Andrews Way (complete)
 - Lower Wheel Creek (complete)
 - Festival of Bel Air (complete)
 - Country Walk 1A (complete)
 - Country Walk 1B (90% complete)
 - Sunnyview (on hold)
 - Foster Branch at Trimble Road (complete)
 - Norrisville ES (complete)
 - Willoughby Beach Pond 1 (30% complete)
 - Willoughby Beach Pond 2 (30% complete)
 - Washington Court impervious removal (on hold)
 - Heavenly Waters (on hold)
 - Hickory ES (complete)
- Construct projects on County owned properties
 - Abingdon Library tree planting (spring 2016)
 - Getz Playground tree planting (on hold)
- Construct four (4) stream restoration projects
 - Bynum at St Andrews Way (spring 2017)
 - Sunnyview (summer 2017)
 - Foster Branch at Trimble Road (complete)
 - Woodbridge Stream Restoration (complete)
- Construction five (5) stormwater retrofit projects
 - Festival of Bel Air (spring 2015)
 - Country Walk 1A (fall 2015)
 - Country Walk 1B (spring 2016)
 - Norrisville ES (complete)

- Hickory ES (complete)

BUFFER PLANTINGS/REFORESTATION:

- Planted over 38 acres of forest buffer in 2014 and 2015 using the Stream Challenge Grant; pursue additional forest/urban tree canopy plantings as opportunities and funding arise.

Using the Stream Challenge Grant Harford County planted 38.07 acres of tree plantings. 30.9 acres were riparian buffer (as of January 2016); Arbor Day plantings resulted in 2+ acre of riparian buffer and 150 street trees.

- Continue to coordinate with MD Forest Service on the “Buffer in a Bag” Program and the “Lawn to Woodland” Program.

Coordination on-going

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.

Harford County Department of Public Works and the Harford Soil Conservation District have each obtained Chesapeake Bay Trust Fund grants from the State to accomplish nutrient/sediment reduction projects in the Bush River and Deer Creek watersheds.

CITY OF ABERDEEN

ABERDEEN WIP 2 YR MILESTONES 2011-2015 (Updated 2-6-15)

- The City sweeps all streets biannually. ongoing

- The City will begin loose leaf pick-up and the year-round bagged yard waste pick-up is ongoing.
- The City has an extensive program for remediation of stormdrain inlets, pipes, and outfalls. **ongoing**
- 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. **ongoing**
- Upgrade of the Swan Meadows residential development (200 homes) infrastructure to include: roads, water, sewer, and storm drain (seeking funding source). **ongoing**

TOWN OF BEL AIR: (Updated 1/31/16)

- 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) Completed and ongoing
- Initiate in-street stormwater bioretention projects as part of pedestrian walkway improvement projects
 - Walkway project for Thomas Street scheduled for engineering in spring of 2016.
- Partner with Harford County to plan and construct several watershed restoration projects on Plumtree Run (2015) **First project to be initiated in 2017 or 2018, had to be pushed for lack of funding.**
- Town capital improvement projects will require pervious paving and reduction in overall paving wherever possible **Projects completed in 2014 for Plumtree Park and Shamrock Park.**
- Street sweeping April through October – monthly (weekly in downtown district) – **on-going**
- Loose leaf pick-up October through December; year-round bagged yard waste pick-up – **on-going**

CITY OF HAVRE DE GRACE (Updated 1/29/16)

- Citizens Park – install bio-swales and raingardens (target date July 2014)
Park completed including bio-retention and vegetative plantings.

- Lily Run – complete 100% engineering designs and required permits for SWM facility, flood mitigation and bio-swales (target date December 2015)
Remains delayed by lack of funds to complete engineering design. 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 (target date – December 2015)
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 (target date December 2015)
Park completed with only planting mitigation.
- Tree/vegetation planting and explore pervious walkways at the newly resurfaced Old Bay Lane (target date December 2014)
No funds allocated for this project in FY 16 budget. Pointing to FY 17 budget currently being drafted.