

Howard County Urban Stormwater 2014 - 2015 Programmatic Two-Year Milestones
January 1, 2014 – December 31, 2015
FINAL STATUS REPORT – January 29, 2016

Target Date	Milestone	Deliverable	Lead Agency	Comments/Status Updates
Funding				
2014-2015	Seek more funding to support capital budget	Annually increase capital budget requests	SWMD, OCS	Increased budget requests will be dependent on Watershed Protection and Restoration Fund (WPRF) fund allocations
				<i>Interim Status: The WPRF remained the same between FY14 and FY15. However, the County successfully continues to seek grants to supplement the capital budget.</i>
				<i>Final Status: The WPRF remained the same between FY15 and FY16. The County successfully continues to seek grants to supplement the capital budget.</i>
2014-2015	Develop new funding sources	Apply for available grants	SWMD	Currently applying for the Chesapeake & Atlantic Coastal Bays Trust Fund Capital Improvement Grant
				<i>Interim Status: The County was awarded the Chesapeake & Atlantic Coastal Bays 2010 Trust Fund Capital Improvement Grant for FY15 in the amount of \$1.44 million, executed 12/5/2014. The County is in the process of applying for the Chesapeake & Atlantic Coastal Bays 2010 Trust Fund FY16 grant for Cost-Effective Nonpoint Source Pollution Reduction. A Letter of Intent was submitted on 1/15/2015, and the full proposal will be submitted by 4/30/2015. The County estimates a request of approximately \$1.68 million. Grant funding supplements the County's capital budget for water quality improvement projects.</i>

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Target Date	Milestone	Deliverable	Lead Agency	Comments/Status Updates
				<i>Final Status: The County was awarded the Chesapeake & Atlantic Coastal Bays 2010 Trust Fund Grant for Cost-Effective Nonpoint Source Pollution Reduction for FY16 in the amount of \$375,000, executed 10/6/2015. The County is in the process of applying for the Chesapeake & Atlantic Coastal Bays 2010 Trust Fund FY17 grant for Nonpoint Source Pollution Reduction. A Letter of Intent was submitted on 1/8/2016, and the full proposal will be submitted by 3/31/2016. The County estimates a request of approximately \$1.7 million. Grant funding supplements the County's capital budget for water quality improvement projects.</i>
2014-2015	Develop targeted programs for allocating portions of the Watershed Protection and Restoration Fund (WPRF)	Set up programs to fund partnerships between the County and residential, non-profit, and commercial properties	OCS	<p>Continuation and expansion of a 2013 Milestone</p> <p><i>Interim Status: The County offers the CleanScapes Residential Credit and Reimbursement Program, the Non-profit Partnership Program and the Non-Residential/ Commercial Reimbursement Program. Details of each can be found on http://www.cleanwaterhoward.com</i></p> <p><i>Final Status: The programs listed in the Interim Status still exist. An additional program added during FY15 includes the Nonprofit Partnership Program, funded by County and MD Department of Natural Resources funds, for stormwater management facility design, installation, and maintenance on nonprofit properties. A second program added in FY15 called CleanScape Communities is a new residential rain garden pilot program.</i></p>
2014-2015	Seek increased funding to expand the County-sponsored Watershed Enhancement Grant (WEG) program	Maintain existing program and request increases in the WEG budget	SWMD	<p>Continuation and expansion of a 2013 Milestone</p> <p><i>Interim Status: The WEG budget increased from \$45,000 in FY14 to \$120,000 in FY15.</i></p> <p><i>Final Status: The WEG budget increased from \$120,000 in FY15 to \$200,000 in FY16.</i></p>

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2014-2015	Seek additional funding for providing economic incentives to septic system owners to encourage retrofit of Best Available Technology (BAT) systems	Apply for available grants	Health Department	Continuation and expansion of a 2013 Milestone
				<i>Interim Status: The County received a secondary distribution of approximately \$22,000 from MDE for Bay Restoration Fund (BRF) funding in early January 2014. The County was also approved for a \$25,000 distribution from MDE based upon the passage of HB 12 BRF Septic Bill and Board of Public Works approval for FY15. This funding should also be available for FY16. Funding intended to cover administration and oversight of the BRF/BAT program.</i>
				<i>Final Status: For FY16, the County received an initial award of \$198,000 from MDE for BRF funding, and as approved 1/6/16, the County will receive an additional \$25,000 to assist with BRF upgrades and/or connections to the public sewer system. The County also entered into a 3-year agreement with MDE as part of HB 12 awards, where Howard County will be receiving \$30,000 (planned disbursement in January of each year), for FY16, FY17 and FY18. This funding is intended to cover administration and oversight of the BRF/BAT program.</i>

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Tracking & Reporting				
2014	Align MS4 annual reporting with Maryland's September 30 annual BMP progress reporting date	<ul style="list-style-type: none"> • Correspondence of MDE's concurrence • Submittal of 19th MS4 Annual Report containing new reporting parameters 	SWMD	<ul style="list-style-type: none"> • Inquired with MDE 11/15/2013 • Verbal concurrence from Mary Dela Dewa on 11/19/2013 • Report will be submitted 9/2014 rather than 6/2014
				<i>Interim Status: Annual Report No 19 was submitted to MDE in 9/2014. Reissuance of the County's MS4 Permit requires future submittals by December 18th of each year.</i>
				<i>Final Status: Howard County's MS4 Annual Reports are due December 18th of each year.</i>
Draft Data Submittal 6/30/2014	Complete the Historical BMP Cleanup	<ul style="list-style-type: none"> • Revise BMP databases and GIS data to include all requirements • Internal documentation of Standard Operating Procedures for data entry 	SWMD	Ongoing
Final Data Submittal 5/29/2015				<i>Interim Status: Cleanup efforts are ongoing. A draft submittal of the County's Historical BMP Cleanup was submitted on 6/30/2014. The County is awaiting feedback on the submittal. A Final Submittal will be submitted in May 2015.</i>
				<i>Final Status: Final submittal of Historical BMP data was completed in May 2015 and updated in June 2015.</i>
2014	Develop NPDES MS4 Compliance and TMDL Tracking Geodatabase	Geodatabase for internal use and for MS4 Annual Reporting	SWMD	<p>Work with consultant developer began January 2014.</p> <p><i>Interim Status: Development is ongoing.</i></p> <p><i>Final Status: Development is ongoing.</i></p>

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Coordination				
2014-2015	Build/Enhance Partnerships	<ul style="list-style-type: none"> • Coordinate with State Highway Administration, Columbia Association, Howard County Public School System (HCPSS), and Howard Community College on BMP implementation opportunities • Continue volunteer activities with active watershed groups and through the Watershed Stewards Academy • Continue partnerships with non-profits entities through the Watershed Protection Partnership and the READY Program 	SWMD and OCS	<p>Ongoing</p> <p><i>Interim Status:</i></p> <ul style="list-style-type: none"> • Coordinated with SHA, responding to requests for GIS data. • Finalized the Stormwater Management Agreement and Right of Entry between the Board of Education and Howard County in July 2014. Agreement specifically focuses on BMP implementation opportunities on Board of Education property. Numerous tree planting projects and new BMPs have been installed. • A stream restoration project on Howard Community College property is scheduled to be designed in FY15. • The County participated in two Watershed Stewards Academy meetings and one field tour of restoration sites in 2014. • The County continued to fund the READY program in FY15 and proposes funding in FY16, as well. <p><i>Final Status:</i></p> <ul style="list-style-type: none"> • Continued to coordinate with SHA, responding to requests for GIS data. • Completed two water quality improvement projects on Board of Education property (Stevens Forest Elementary and Wilde Lake High), and initiated design on a third project (Long Reach High/Deep Earth Lane). • Initiated a stream restoration design on Howard Community College property. • The County participated in two Watershed Stewards Academy meetings and one field tour of restoration sites in 2015. • The County continued to fund the READY program in FY16.

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Target Date	Milestone	Deliverable	Lead Agency	Comments/Status Updates
2014-2015	Enhance Inter-Departmental Coordination	Form Stormwater Cabinet Subcommittees made up of members from various County departments: <ul style="list-style-type: none"> • Stormwater Policy • MS4-Data Management • Projects • Outreach Continue tree planting efforts and educational opportunities through the Students Branching Out Grant with HCPSS, Department of Recreation and Parks, OCS, and SWMD	SWMD	Ongoing
			OCS, SWMD	<i>Interim Status: Stormwater Cabinet Subcommittees are active and have enhanced coordination among county departments.</i> <i>The Students Branching Out grant allowed tree planting at one county park and six HCPSS properties, where students were involved in a portion of the planting activities. A total of 57.37 acres of trees were planted in 2014 under this grant. Additional tree planting is scheduled for 2015.</i>
				<i>Final Status: The Stormwater Cabinet and Subcommittees are still active. During FY15, the Students Branching Out Grant allowed tree planting at 12 County parks and 10 HCPSS properties, where students were involved in a portion of the planting activities. A total of 42.2 acres were planted in FY15 under this grant.</i>

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Program Development or Enhancement				
2014-2015	Complete Studies	<ul style="list-style-type: none"> • Complete detailed calculation of baseline untreated imperviousness • Complete Countywide Implementation Strategy (CIS) • Complete white paper on compost for use as a BMP and as an erosion and sediment control measure 	SWMD	<p>Continuation and expansion of a 2013 Milestone</p> <ul style="list-style-type: none"> • Refining draft untreated impervious baseline calculation • Refining Draft CIS • Study ongoing. Presentation to MDE planned for April 2014 to discuss results of white paper and amendments to the state guidelines <p><i>Interim Status:</i></p> <ul style="list-style-type: none"> • Baseline calculation and finalization of the CIS is ongoing and will be submitted to MDE by 12/18/2015. • The compost white paper was presented to MDE in April 2014 <p><i>Final Status:</i></p> <ul style="list-style-type: none"> • Baseline calculations and CIS were completed and submitted to MDE on 12/18/2015. The baseline and the CIS are subject to be updated based on MDE comments and program improvements.
2015	Hire additional project restoration staff	Evaluate needs and hire staff to manage capital improvement projects as needed	SWMD	<p>Continuation and expansion of a 2013 Milestone</p> <p><i>Interim Status: Four new BMP Inspectors and one new Engineer were added to the SWMD during 2014.</i></p> <p><i>Final Status: The SWMD is pursuing hiring one or two additional Engineers.</i></p>

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Local Watershed/Project Planning				
2015	Identify sites for implementation opportunities	<ul style="list-style-type: none"> • Initiate Watershed Assessments and Restoration Plans • Identify Source Reduction Solutions <ul style="list-style-type: none"> ○ Impervious pavement removal ○ Pervious pavement installation • Incorporate results into the NPDES MS4 Geodatabase, including cost and alternatives analyses and project prioritization 	SWMD	<ul style="list-style-type: none"> • Watershed Assessments, Restoration Plans, and Source Reduction Solution studies to be initiated after MS4 Geodatabase development is complete <p><i>Interim Status: Watershed Assessments will commence in winter 2015, and Source Reduction Solutions will be identified as part of these assessments. MS4 Geodatabase Development is ongoing.</i></p> <p><i>Final Status: Watershed Assessments for the Little Patuxent Watershed and the Middle Patuxent Watershed were completed and submitted to MDE on 12/18/2015. Watershed Assessments for the remainder of the Howard County watersheds will be initiated in early 2016. Incorporation of watershed assessments results into the MS4 Geodatabase is ongoing.</i></p>
2014-2015	Assess local stream health	Continue Countywide Biological Monitoring	SWMD	<p>Ongoing</p> <p><i>Interim Status: Assessments continued in 2014 and are planned for 2015.</i></p> <p><i>Final Status: Assessments continued in 2015 and are planned for 2016.</i></p>

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Target Date	Milestone	Deliverable	Lead Agency	Comments/Status Updates
Outreach/Education				
2014-2015	Increase Public Awareness	<ul style="list-style-type: none"> • Launch the Stream Mapper App –citizen monitoring • Install educational signs at water quality improvement project sites • Complete education center for sustainable practices at the Alpha Ridge Resource Management Center 	OCS and SWMD	<ul style="list-style-type: none"> • Spring 2014 • Ongoing • Currently under design. Open to public Summer 2014 <p><i>Interim Status:</i></p> <ul style="list-style-type: none"> • The Stream Mapper App was launched as part of GreenFest in April 2014. • Development and installation of educational signs is ongoing. Examples can be viewed at Savage Library. • Construction for the education center for sustainable practices project at the Alpha Ridge Resource Management Center has not been initiated. <p><i>Final Status: Status remains unchanged from the Interim Status.</i></p>
2014-2015	Continue the Watershed Stewards Academy	Continue training Watershed Stewards	OCS	<p>Continuation and expansion of a 2013 Milestone</p> <ul style="list-style-type: none"> • Second class scheduled for Fall 2014 <p><i>Interim Status: The County participated in two Watershed Stewards Academy meetings and one field tour of restoration sites in 2014.</i></p> <p><i>Final Status: The County participated in two Watershed Stewards Academy meetings and one field tour of restoration sites in 2015.</i></p>

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2014-2015	Develop and begin implementing an enhanced public education and outreach program based on social marketing for stormwater management	<ul style="list-style-type: none"> • Upgrades to cleanwaterhoward.com website • Distribution of fee credit brochure • Creation of outreach display • Outreach presentations 	OCS	Continuation and expansion of a 2013 Milestone <ul style="list-style-type: none"> • June 2014 • February 2014 • April 2014 • Ongoing
				<i>Interim Status: All milestone deliverables have been completed, and outreach is ongoing.</i>
				<i>Final Status: All milestone deliverables have been completed, and outreach is ongoing.</i>

Submittal and Reporting Process:

- **Initial Programmatic Milestone Submittal:** The State is requesting submittal of Programmatic Milestone commitments by January 31, 2014.
- **Interim Programmatic Milestone Progress Reporting:** The State is requesting an interim status report on the Programmatic Milestones by January 31, 2015.
- **Final Programmatic Milestone Progress Reporting:** The State is requesting a final progress report on the Programmatic Milestones by January 31, 2016.

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Howard County Urban Stormwater 2014 - 2015 BMP Implementation Two-Year Milestones
July 1, 2013 – June 30, 2015
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Action	Proposed Restoration Rates (2 years)	Actual Rate for 1 year*	% Progress for 1 year*	Actual Rate for 2nd year	Total % Progress for 2 years
Construct Stream Restoration Projects	9500 linear feet of restoration = 95 acres of equivalent impervious treatment	61.7 acres of equivalent impervious treatment complete	65%	10.5 acres of equivalent impervious treatment complete, multiple projects still under design or construction as of 6/30/2015	76%
Construct Pond Retrofits	30 acres of impervious treatment	0 complete – multiple projects still in design or under construction as of 6/30/2014	0%	10.8 acres complete, multiple projects still under design or construction as of 6/30/2015	36%
Construct Environmental Site Design (ESD) Practices	50 acres of impervious treatment	0 complete – multiple projects still in design or under construction as of 6/30/2014	0%	70 acres complete, including volunteer installations of rain gardens	140%
Plant Urban Buffer and Upland Reforestation Areas	40 acres of reforestation	31.86 acres complete	80%	42.2 acres complete	185%

* To be reported June 2014

Submittal and Reporting Process:

- **Initial BMP Milestone Submittal:** The State is requesting submittal of BMP Milestone commitments by 1/31/2014.
- **Interim BMP Milestone Reporting:** The State is requesting an interim status report on the BMP Milestones by 1/31/2015.
- **Final BMP Milestone Reporting:** The State is requesting a final progress report on the BMP Milestones by 1/31/2016.

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