EPA Evaluation of Programmatic Two-Year Milestones for Urban/Suburban Stormwater (2012-13 & 2014-15)

Urban Stormwater Workgroup September 23, 2014

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Milestones Evaluation

- ▶ 2012–13: Did jurisdictions and federal agencies achieve their 2012–13 commitments set 2 years ago?
- ▶ 2014–15: Are commitments strong enough to keep jurisdictions and federal agencies on track to have:
 - All practices in place by 2025 to achieve clean water in Bay
 - Practices in place by 2017 to achieve 60% of necessary reductions compared to 2009
- Milestones comprise:
 - Numeric: translate practices into load reductions and compare to long-term trajectories
 - Programmatic: Actions to build capacity to achieve necessary implementation levels

2014 Oversight Status

Urban/Suburban: DE **Ongoing Oversight** DC **Ongoing Oversight** MD**Ongoing Oversight** NY **Ongoing Oversight Backstop Actions** PΑ Level VA **Enhanced Oversight**

Ongoing Oversight

WV

Ongoing Oversight: Good strategy and progress is on track.

Enhanced Oversight: Concerns because:

- Progress not on track;
- Lacks capacity to achieve commitments;
- Commitments do not meet 2017 and 2025 goals; or
- Some combination of above.

Backstop Actions: Substantial problems:

- Progress not on track;
- Lacks capacity to achieve commitments; and
- Commitments do not meet 2017 and 2025 goals.

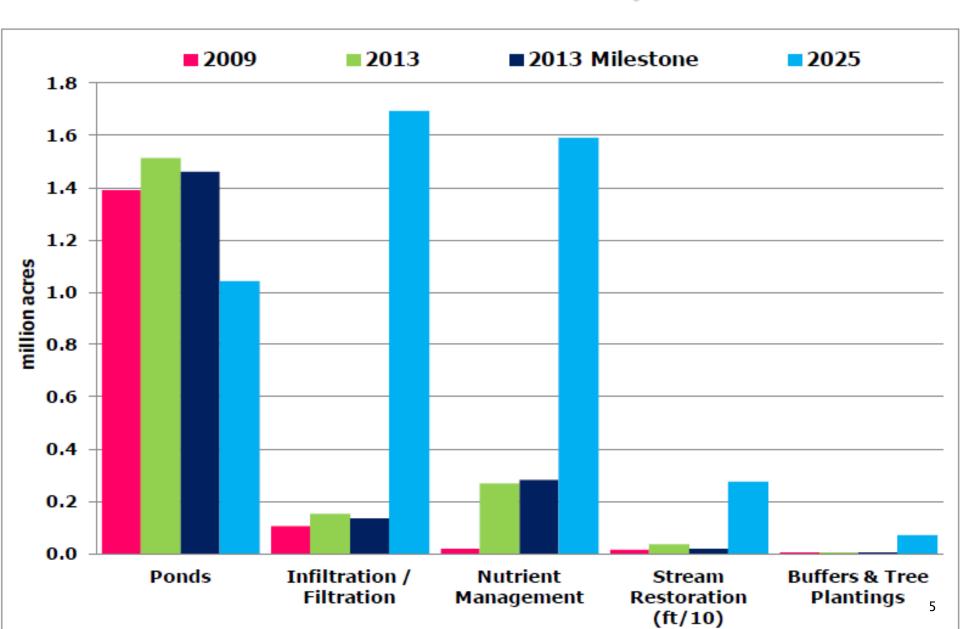
Chesapeake Bay Watershed Loads/Goals

| | 2009 Progress | 2011 Progress | 2013 Progress (on 2013) TOTN | 2013 Progress (on 2010) TOTN | 2013 Milestone TOTN | 2013 Trajectory TOTN | 2015 Draft Milestone TOTN | 2015 Final Milestone TOTN | 2015 Trajectory TOTN | 2017 Target TOTN | 2025 Target TOTN |
|----------------|---------------|---------------|------------------------------------|------------------------------------|---------------------------|----------------------------|---------------------------------|---------------------------------|----------------------------|------------------------|------------------------|
| Source | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) |
| Agriculture | 113.80 | 108.26 | 107.38 | 107.28 | 106.29 | 101.23 | 101.42 | 99.24 | 94.95 | 88.67 | 71.91 |
| Urban Runoff | 39.70 | 40.07 | 40.76 | 39.50 | 39.63 | 36.42 | 40.82 | 40.53 | 34.78 | 33.13 | 28.76 |
| Wastewater+CSO | | | | | | | | | | | |
| Septic | | | | | | | | | | | |
| Forest+ | | | | | | | | | | | |
| AllSources | | | | | | | | | | | |
| | 2009 Progress | 2011 Progress | 2013 Progress | 2013 Progress | 2013 | 2013 | 2015 Draft | 2015 Final | 2015 | 2017 | 2025 |
| | ТОТР | ТОТР | (on 2013) TOTP | (on 2010) TOTP | Milestone TOTP | Trajectory TOTP | Milestone TOTP | Milestone TOTP | Trajectory TOTP | Target TOTP | Target TOTP |
| Source | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) |
| Agriculture | 10.546 | 10.449 | 9.884 | 9.790 | 9.794 | 9.604 | 9.718 | 9.678 | 9.132 | 8.661 | 7.404 |
| Urban Runoff | 3.010 | 3.037 | 2.812 | 2.750 | 2.940 | 2.741 | 2.755 | 2.674 | 2.607 | 2.472 | 2.114 |
| Wastewater+CSO | 3.972 | 3.146 | 2.809 | | 3.687 | 3.665 | | | 3.512 | 3.358 | 2.949 |
| Forest+ | | | | | | | | | | | |
| AllSources | | | | | | | | | | | |
| | 2009 Progress | 2011 Progress | 2013 Progress | 2013 Progress | 2013 | 2013 | 2015 Draft | 2015 Final | 2015 | 2017 | 2025 |
| | | | (on 2013) | (on 2010) | Milestone | Trajectory | Milestone | Milestone | Trajectory | Target | Target |
| | TSS | TSS | TSS | TSS | TSS | TSS | TSS | TSS | TSS | TSS | TSS |
| Source | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) | (lbs/year) |
| Agriculture | 5,295 | 4,885 | | | | | | | | | |
| Urban Runoff | 2,019 | | 2,034 | 2,032 | 1,957 | | | 1,873 | | 1,620 | 1,353 |
| Wastewater+CSO | | | | | | | | | | | |
| Forest+ | | | | | | | | | | | |
| AllSources | | | | | | | | | | | |

^{•2013} Progress **bold type** = 2013 Progress load meets jurisdiction's 2013 Milestone goal.

Loads meet trajectory target Loads don't meet trajectory target but are close. Loads don't meet trajectory target by relatively large amount.

Urban/Suburban BMP Implementation



Delaware: Ongoing Oversight

Strengths

- Promulgated revised Sediment and Stormwater Regulations
- Will provide training on Sediment and Stormwater Regulations
- Will conduct maintenance and construction inspections

Shortfalls

Did not reissue final Phase II MS4 general permit, but included a 2014-2015 milestone for this

Issues to Address

Specify the type and timing of outreach to MS4 communities

Washington, DC: Ongoing Oversight

Strengths

- Finalized Stormwater Fee Discount Program rule in 2013
- Implementing newly adopted stormwater regulations
- On target to inspect all MS4 outfalls every 5 years
- Will develop operation and maintenance protocols for District-owned and operated onsite retention practices
- Commits to work with federal agencies as part of MOU
 ☑ Signatories and DC met in May and will reconvene in near future

Shortfalls

Did not complete online stormwater tool by 2013

- Increase implementation of tree plantings and projects that meet 1.2" retention standard to meet projected goals
- Perform follow-up activities from inspections

Maryland: Ongoing Oversight

Strengths

- Issued Industrial Stormwater General Permit
- Will develop online BMP reporting tool for non-MS4 localities
 - ☑ EPA provided assistance funds; MD included in FY14 CBRAP work plan

Shortfalls

- Did not submit all draft Phase II MS4 permits and did not issue final determinations for all Phase I MS4 permits
 - Issued tentative determinations for remaining, expired Phase I MS4 permits and submitted SHA permit for EPA review; EPA still awaiting draft Phase II MS4 permit for review

- Finalize revised stormwater retrofit guidance by 9/30/2014
 - ☑ Finalized and published retrofit guidance
- Sign Work Plan with EPA responding to EPA's assessment of program
 - ☑ Work Plan signed
 - Some deadlines have been met

New York: Ongoing Oversight

Strengths

- Completed all 2012–13 programmatic stormwater milestones
- Will report post-construction BMPs in 2014 and 2015

- Meet with EPA to discuss how Construction and Phase II MS4 General Permits to be reissued in 2015 will be consistent with allocations and assumptions of Bay TMDL
- Implement urban and suburban stormwater BMPs
- Develop and implement Chesapeake Bay watershed outreach and technical assistance plan for MS4s

Pennsylvania: Backstop Actions

Strengths

- Reissued Phase II MS4 and Construction General Permits
- Will develop stormwater management offsetting program by end of 2014

Shortfalls

- Reporting template for Chesapeake Bay Pollutant Reduction Plan lacks sufficient detail to ensure consistent with Bay TMDL allocations and assumptions
 - EPA has provided examples of MD and VA guidance to PADEP

- Increase number of MS4 trainings within next year to comply with existing permit
- Notify localities within new/expanded urbanized areas that they require Phase II MS4 permit coverage
 - ☐ EPA and PADEP are meeting regularly to discuss

Virginia: Enhanced Oversight

Strengths

- Significantly increased resources for local governments
- Implemented amendments to Virginia Fertilizer Law
- Will develop system to track, verify and report homeowner BMPs
- Reissued Arlington County Phase I MS4 Permit and Phase II MS4, Construction and Industrial Stormwater General Permits
- Will develop CGP Coverage System tool for VSMP and CGP regulations
- ☑ First phase live; ongoing development included in FY14 CBRAP work plan

Shortfalls

- Did not reissue 10 expired, Phase I MS4 permits
 - ☑ Committed to submit remaining permits for EPA review by 12/31/2014

- Expect increased implementation of stormwater management, particularly infiltration and filtration practices, so that all practices in place by 2025
- Issue Chesapeake Bay TMDL Action Plan Guidance
 - ☑ Issued in July 2014
- Help localities implement regulations and report measurable results associated with increasing compliance with NPDES permits
 - ☑ EPA provided assistance for MS4 trainings

West Virginia: Ongoing Oversight

Strengths

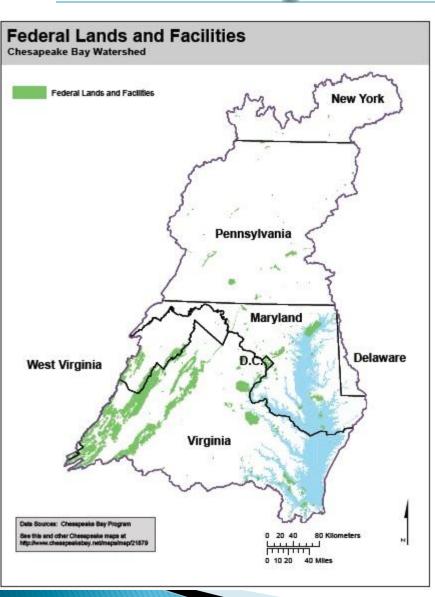
- Released statewide stormwater management guidance manual
- Jefferson County and Martinsburg adopted ordinances to better manage stormwater
- Will reissue Phase II MS4 General Permit
 - ☑ Reissued July 2014

Shortfalls

Did not meet pollutant reduction milestones for urban sector

- Complete comprehensive assessment of new growth and loadings by September 2015. Follow through with Phase II WIP contingencies if assessment finds that urban goals will not be achieved
 - ☑ Has shared scope with EPA and committed to complete by 9/2015. Included in FY14 CBRAP work plan
- Provide inspection and compliance information to substantiate claim that lands under development are in compliance with permit requirements
 - EPA will compare any information submitted by West Virginia to its own inspection findings

Federal Agencies



Strengths

- DoD conducted stormwater assessments at several installations
- EPA developed BayFAST to assist facility-level planning

Shortfalls

 EPA deferred revisions to national stormwater rule

- Improve BMP progress reporting by federal facilities
 - ☑ EPA recently sent directions to federal agencies for submitting 2014 progress data
- EPA working with federal agencies and jurisdictions to improve coordination
 - Additional federal agencies may join efforts to implement Stormwater MOU in DC

Common Programmatic Findings

- ▶ Provide/enhance trainings to regulated community
 ☑ EPA provided assistance funds
- Enhance compliance assurance and enforcement
- ► Improve BMP tracking, verification, reporting
 ☑ Asked PSC to approve Verification Framework
- Clean up historic BMP data (all sectors)
 EPA provided assistance funds
- Demonstrate trends in nutrient loads associated with urban nutrient management and/or fertilizer legislation
 - ☑ Coordination call with Bay jurisdictions
 - ☑ Objective of Virginia's 2014 CBRAP Work Plan

WWTSD?

- What Would Tom Schueler Do?
- How can the Urban Stormwater Workgroup help to address some of these findings?
 - Coordinate activities
 - Share best practices/approaches
 - Provide recommendations

For More Information



Programmatic Milestones and EPA Evaluations

www.epa.gov/chesapeakebaytmdl

Pollutant Load and BMP Progress and Targets

http://stat.chesapeakebay.net/

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