

Stormwater Retrofitting Demystified

A training for local governments to cost effectively implement retrofits to meet MS-4 permit and Bay TMDL Requirements

June 13, 2012

Patuxent National Wildlife Visitor Center, 10901 Scarlet Tanager Loop, Laurel MD 20708

Learning Objectives:

- ❖ Learn non-traditional cost effective retrofits that can help localities meet your pollutant load reduction requirement and how to document the reduction.
- ❖ Provide a refresher on basic/introductory urban hydrology, pollutant loading and stormwater retrofitting.
- ❖ Learn desktop, field and stakeholder methods to find the most cost effective and feasible retrofit opportunities.
- ❖ Learn tips on reducing costs, information on maintenance obligations and options for delivering on-site residential LID retrofits through local incentive programs.
- ❖ Compare costs and receive tips for reducing the costs for design, permitting, contract management, and improved consultant management.

9:00 – 9:30: Registration and Coffee (Room A)

Auditorium

9:30 – 9:40: Welcome & Learning Objectives for the Day

9:40-10:00

State Perspectives on Stormwater Retrofitting

Ray Bahr & Deb Cappuccitti: MD Dept of the Environment

Sediment, Stormwater and Dam Safety Program

Representatives from MDE will briefly describe the need for greater retrofitting in the state to meet the new MS4 permit requirements Bay-wide TMDL

10:00 - 10:45:

Session 1. Strategies to Consider Prior to Retrofits

Tom Schueler/Cecilia Lane - Chesapeake Stormwater Network

- Cost-effective strategies that don't involve traditional retrofits
- Specific methods to document the local load reduction achieved through these practices.

10:45 to 11:15:

BREAK



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11:15 – 12:30:

Session 2. Basics of Stormwater Retrofitting

Tom Schueler/Cecilia Lane – Chesapeake Stormwater Network

- Short introduction to basic urban hydrology and pollutant loading
- Basic retrofitting and how to find these opportunities in the urban landscape, including suburban areas
- Interactive activity to help visualize the most effective retrofit opportunities in your community
- Discussion: how to compute the sediment and nutrient reductions associated with various types of retrofits as well as other local benefits they can provide.

12:30 - 1:30:

LUNCH (provided, Room BC)

Auditorium

1:30 - 2:30:

Session 3. The Retrofit Discovery Process

Tom Schueler/Cecilia Lane - Chesapeake Stormwater Network

- Discussion of methods to find most cost effective and feasible retrofit opportunities and new short-cut methods to reduce planning and design costs
- Improving the performance of existing BMPs in the community, including older facilities
- Green street retrofit opportunities

2:30 to 3:45:

Session 4. Retrofit Costs, Delivery and Maintenance

Tom Schueler/Cecilia Lane Chesapeake Stormwater Network

- On-site residential LID retrofits through local incentive programs
- Maintenance obligations for stormwater retrofits.

3:45 to 4:00

Concluding Remarks

4:00

Adjourn

The **Chesapeake Stormwater Network (CSN)** is an organization whose mission is to improve on the ground implementation of more sustainable stormwater management and environmental site design practices in each of 1300 communities and seven states in the Chesapeake Bay Watershed. The Network is coordinated by Tom Schueler and Cecilia Lane is located in Ellicott City, MD.

Tom has more than 30 years experience in practical aspects of stormwater practices to protect and restore urban watersheds. As executive director of CSN, Tom works on a number of projects in the Bay including the Chesapeake Bay Stormwater Training Partnership, which provides webcasts, workshops and on-line training modules to train engineers on new practices. Tom also serves as the stormwater technical coordinator for the EPA Chesapeake Bay Program. Cecilia has recently joined the Network coming from the Center for Watershed Protection where she served as a Watershed Technician for 3 years working on stormwater management issues, specifically retrofitting. At the Network, Cecilia is heading up several tasks on the Chesapeake Bay Stormwater Training Partnership including developing training content on LID Maintenance and Retrofitting.



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