

Stormwater runoff is impacting our streams and watersheds, causing declines in water quality, streambank erosion, flash floods, degrading fish habitat, and reducing groundwater recharge.

Studies have shown that significant impairment of waterways often occurs when 10% of the land in a watershed is covered with impervious surfaces such as parking lots and rooftops.

The release of the 2006 Pennsylvania Stormwater Best Management Practices Manual brought a new focus on water quality, designing systems that promote infiltration and capture "first flush" instead of just detaining volumes of stormwater. Learn how some of these new techniques are being used in the field and how well they are working.

This program is designed to help municipalities and municipal engineers implement new cost effective stormwater practices (BMPs). MS4 municipalities will learn more about the new applications and permitting that will be required to meet TMDLs for the Chesapeake Bay. **If your community is an MS4, you should attend this meeting.**

Penn State Cooperative Extension in partnership with DEP, DCNR, the Villanova Urban Stormwater Partnership, and the USDA Forest Service is providing this training for municipal officials, engineers, community planners and others interested in managing stormwater and protecting water quality.



Bio Retention Area or Rain Garden in a Parking Lot

Non-Profit Org.
U.S. Postage
PAID
Wilkes Barre, PA
Permit No. 37

Pennsylvania State University
College of Agricultural Sciences
Luzerne County Cooperative Extension
16 Luzerne Avenue Suite 200
West Pittston PA 18643-2817

Penn State **EXTENSION**

AGRICULTURE | COMMUNITY & FAMILY | ENVIRONMENT

Managing Municipal Stormwater

Protecting Water Quality, Streams, and Communities



grow

Healthy Watersheds

Wednesday, September 29, 2010

9:00 a.m. - 1:00 p.m.

Luzerne County Community College

Conference Center

1333 South Prospect St

Nanticoke, PA 18634

This program was developed in partnership with:

PA DEP Northeast Regional Office

PA DCNR Bureau of Forestry

Villanova Urban Stormwater Partnership

USDA Forest Service

PENNSSTATE



an OUTREACH

Program of the College of Agricultural Sciences, and Luzerne County Cooperative Extension

Managing Municipal Stormwater

8:30 Registration

9:00 Stormwater Issues: Impacts on Water Quality and Flooding - Vincent Cotrone, Penn State Extension

9:30 MS4 Permitting for Municipalities: TMDLs and the Chesapeake Bay Program
Paul Grella, DEP

10:00 Sustainable Best Management Practices for Urban/Suburban Stormwater – Lessons Learned - Dr. Robert Traver, Villanova University

11:00 Break

11:15 Partnering with Municipalities to Manage Stormwater and Improve Streams
Rebecca Kennedy, Lehigh County Conservation District

11:45 Cost Effective, Green Stormwater Management – Vincent Cotrone, Penn State Extension

12:15 Meeting Adjourned

The **Municipal Separate Storm Sewer System (MS4)** Program is a federally mandated initiative, which is administered by the Pennsylvania Department of Environmental Protection. The program's ultimate goal is to ensure that Municipal stormwater conveyance systems are discharging clean water.

Municipalities that are included in the program are required to perform public outreach and education as well as solicit public participation in clean water efforts. Municipalities must also develop a map of their stormwater conveyance systems and create a method for detecting illicit discharges and a plan to eliminate those discharges. Further responsibilities include participation in regulation of erosion and sedimentation control during construction activities and post construction stormwater control facilities. Municipalities must also practice "good house keeping" regarding stormwater, which is generally just implementation of common sense best management practices (BMPs).

Directions to Luzerne County Community College:

Traveling North or South on Interstate 81:

Take Exit 164 (Nanticoke Exit) to route 29 or what is commonly called the South Cross Valley Expressway. At exit 2, the Alden Exit, make a left turn onto Middle road. This road will take you to Kosciuszko or Prospect Streets where signs clearly indicate the entrance into the college.

Traveling on U.S. Route 11

Take Route 11 to the South Cross Valley Expressway (Route 29). Immediately after you cross the Susquehanna River, exit by way of the Nanticoke Exit onto the Sans Souci Parkway or Main Street. At Kosciuszko Street make a left turn and follow this street directly to the entrance of the college.

Follow signs on campus for the Educational Conference Center - Building 10.

Directions are at <http://www.mapquest.com/maps?address=1333+south+prospect+street&city=nanticoke&state=PA&country=us>

**For more information, contact:
Penn State Cooperative Extension at
(570) 825-1701, via email vjc1@psu.edu**

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Penn State encourages persons with disabilities to participate in its programs and activities. If you anticipate needing special accommodations or have questions about the physical access provided, please contact Vinnie Cotrone at 570-825-1701 in advance of your participation or visit.

This publication is available in alternative media upon request.

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REGISTRATION FORM

Managing Municipal Stormwater Registration Fee \$10

(covers morning refreshments and materials)

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| Name(s) | | |
| Business/ Organization | | |
| Address | | |
| City | State | Zip code |
| Phone (Day) | (Evening) | |
| Email | | |
| Registration Deadline is September 15, 2010 | | |
| Make checks payable to: Luzerne County Cooperative Extension and mail to: Municipal Stormwater Luzerne County Cooperative Extension 16 Luzerne Avenue, Suite 200 West Pittston, PA 18643 Telephone: (570) 825-1701 Fax (570) 825-1709 | | |