



AN ADVANCED STORMWATER BMP TRAINING SERIES: FUNCTION, DESIGN, SELECTION, AND MAINTENANCE

ABOUT OUR STORMWATER U TRAINING PROGRAM

Stormwater U provides training to local stormwater professionals on stormwater best management practices (BMPs) through research based, content specific and hands-on workshops. These opportunities focus on important stormwater issues and requirements facing Minnesota cities and other local governmental units such as watersheds.

Stormwater U workshops are designed to help cities meet their stormwater permit, impaired water goals (TMDL) and other requirements. Stormwater U trainings are designed and developed by a collaborative team including faculty and researchers from the University of Minnesota and partners from the Minnesota Pollution Control Agency, and other State, regional and local agencies.

Who should attend?

Excavation contractors, grading contractors, public works staff, engineers, designers, planners, and public officials are invited to attend, discuss, and learn about stormwater BMP management.

CLASS ATTENDEES:

- Will receive a participation certificate for completing the series of classes.
- Will have an opportunity to win participation prizes for all classes.

CLASS 1: AN INTRODUCTION TO STORMWATER BMPs—FUNCTIONS, DESIGNS & INSTALLATIONS

Date: Tuesday, January 24, 2012

Location: CWC Land Services Building
322 Laurel Street, Brainerd, MN 56401

Time: 8:00 AM to 3:30 PM

Cost: \$40.00

Includes refreshments, lunch, & workshop materials.

Workshop topics:

Part I: Stormwater BMP Introductions:

- Overview: rules, permits, & History,
- Watershed 101: A Hands on Exercise
- Local Resources
- BMP 101: Functions, Types,
- Creating your own solutions = BMPs
- Gaining confidence in using/applying Stormwater BMPs
- Round Table Discussions

Part II: BMP Functions, Designs, and Installations:

- Stormwater BMPs: Functions & Purpose
- Regularity Overview: Design requirements by rules, permits, etc...
- Designing a Stormwater Infiltration BMP
- Hands on Exercise: Designing a BMP
- Soils & Engineered Soils
- Soil Infiltration Rate: why we need it, definition, techniques, measurements, & tools
- Stormwater Infiltration BMP Construction & Installation

***** NOTE: All Stormwater training classes may have outdoor field practice exercises. Please come prepared for the weather, rain or shine.**

CLASS 3: STORMWATER BMP MAINTENANCE

Level: Advanced

Date: Tuesday, July 31, 2012

Location: Northland Arboretum
14250 Conservation Drive, Brainerd, MN 56401

Time: 8:00 AM to 4:30 PM

Cost: \$40.00 - Includes refreshments, lunch, & workshop materials & 2 outdoor exercises: WQ Pond & Raingarden (rain or shine).

Workshop topics:

- Regularity Overview: rules, permits, etc...
- What is Maintenance? Restoring the original Function
- Assessment of Stormwater BMPs: Visual Inspection
- On-site Inspections of Water Quality - Pond
- On-site Inspections of Water Quality - Bio Basin
- Field Assessments Results & Prioritization
- Case Study - City of Bloomington Stormwater program - From Inventory to Maintenance
- Available Resources and Emerging Issues

CLASS 2: STORMWATER DIAGNOSIS & BMP SELECTION

Level: Advanced

Who should attend? Public works staff, engineers, designers, planners, and public officials are invited to attend, discuss, and learn about stormwater BMP management.

Date: Tuesday, March 27, 2012

Location: CWC Land Services Building
322 Laurel Street, Brainerd, MN 56401

Time: 8:00 AM to 3:30 PM

Cost: \$40.00

Includes refreshments, lunch, & workshop materials

Workshop topics:

- Regularity Overview: rules, permits, etc..
- Site Assessment Concept
- Making the Diagnosis: Understanding the site, Matching BMP Functions & Site's needs
- Site Assessment: How To
- BMP Siting: Optimized BMP Locations, Reading Grading Plan & Finding Best BMP Spots
- Wetlands: are they BMPs?
- Selecting Stormwater BMP/Site Assessment Tools: MIDS, MIDS Calculator, & P8.
- Local Project/Case Study/Site Visit

For more information on our workshops, visit our website at:
www.extension.umn.edu/stormwater

For more information on any courses listed in this brochure, contact Theresa Sowards at (651) 480-7715 or sowar006@umn.edu.

REGISTRATION FORM

For credit card and online registration, go to:
extension.umn.edu/stormwaterU

FOR MAIL-IN REGISTRATION, COMPLETE THIS FORM &
ENCLOSE A CHECK

Name _____

Address _____

City _____

State/ZIP _____

Phone (day) _____

Email _____

Please register me for:

Class 1: Stormwater BMP Introduction.....\$40.00

Tuesday, January 24, 2012 at the Land Services Bldg

**Class 2: Stormwater Diagnosis & BMP
Selection.....\$40.00**

Tuesday, March 27, 2012 at the Land Services Bldg

Class 3: Stormwater BMP Maintenance.....\$40.00

Tuesday, July 31, 2012 at the Northland Arboretum

**REGISTER FOR ALL THREE WORKSHOPS
FOR ONLY \$80.00**

REGISTER ONLINE AT:

www.extension.umn.edu/stormwater

OR MAIL TO:

University of Minnesota Extension, RDU
405 Coffey Hall - 1420 Eckles Avenue
St. Paul, MN 55108

Make checks payable to: University of Minnesota

THIS SERIES OF WORKSHOPS WAS
DEVELOPED WITH PARTICIPATION
FROM:

- Brock White Construction Materials
- Crow Wing County
- Crow Wing Soil & Water Conservation District
- Minnesota Pollution Control Agency
- Thirty Lakes Watershed District
- University of Minnesota Extension



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Dakota County Extension and
Conservation Center
4100 220th St W, Suite 100
Farmington, MN 55024

Stormwater BMP Training Series

Design, Selection, and Maintenance



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