

Agenda

Presented by Steven Trinkaus

Understanding Stormwater Permit Requirements and Procedures

- Background and development of national and state regulations and permit requirements
- Activities exempt from construction general stormwater permit requirements
- Complying with NPDES and the Maryland Department of the Environment
 - Applying for Section 401 certification
 - Special conditions for sensitive waters
 - Review and permitting process
- Implementing, monitoring and assessing SWPPPs

Understanding and Applying the Science of Stormwater

- Hydrology, soil science and drainage
- Identifying consequences of storm events
- Stormwater modeling
- Runoff reduction, routing and storage
- Infiltration and percolation

Choosing Appropriate Stormwater Best Management Practices (BMPs)

- Stormwater management planning
- Sizing criteria
- Green infrastructure practices
 - Preservation of natural features and conservation design
 - Reducing impervious cover
- Green management techniques
 - Conservation of natural areas
 - Riparian buffers and filter strips
 - Vegetated swales
 - Rain gardens
 - Rain barrels/cisterns
- Disconnected runoff
- Green roofs
- Porous pavement
- Stream daylighting
- Stormwater planters
- Proprietary practices

Developing Stormwater Pollution Prevention Plans (SWPPP)

- Including required elements
- Assessing building sites
- Choosing best management practices (BMPs)
- Planning for required inspection, maintenance and recordkeeping
- Obtaining plan certification
- Implementing SWPPPs

Developing Plans for Inspection, Monitoring, Maintenance and Recordkeeping

- Understanding the science and terminology of stormwater management and monitoring
- Implementing monitoring plans
- Reviewing stormwater BMP case studies

Stormwater Management

Columbia, MD - Wednesday, May 29, 2019



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Learning Objectives

You'll be able to:

Determine when a stormwater permit is necessary and comply with stormwater permit requirements.

Describe the elements to be included in stormwater pollution prevention plans (SWPPPs).

Obtain plan certificates for SWAPPPs.

Choose appropriate stormwater best management practices (BMPs) and develop plans for inspection, monitoring, maintenance and recordkeeping.

Utilize green infrastructure practices and management techniques, including vegetated swales, disconnected runoff, rain gardens and pervious pavement.



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Understand the background and development of national and state stormwater rules and permit requirements

Learn about the science of stormwater management and monitoring

Identify consequences of storm events

Examine the required elements and best management practices for stormwater pollution prevention plans

Review stormwater best management practices, including green roofs, stormwater planters, stream daylighting and porous pavement

Continuing Education Credits

Professional Engineers

7.0 PDHs

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7.0 HSW Learning Units/CE Hours

7.0 AIA HSW Learning Units

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7.0 HSW PDHs

7.0 LA/CES HSW PDHs

Floodplain Managers

7.0 ASFPM CECs



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Faculty



Steven Trinkaus, PE
Principal at Trinkaus Engineering, LLC, in Southbury, CT

Mr. Trinkaus is a licensed professional engineer in Connecticut and Maryland and has over 38-years’ experience in the land development field. He is an internationally-recognized expert in the field of low impact development (LID) and has been an invited presenter and consultant in Taiwan, China and South Korea multiple times since 2011. Mr. Trinkaus was an invited presenter at the University of St. Andrews in Scotland on Sustainable Stormwater Management in October 2017. He has written multiple LID design manuals for five municipalities in Connecticut as well as being the principal author of a LID National Guidance document for EWRI. Mr. Trinkaus has designed all types of LID treatment systems including bioretention, dry and wet swales, permeable asphalt and open cell paver systems. He has made many presentations on LID and water quality topics at many local, regional and international conferences. He has also taught day long workshops on stormwater and LID. Mr. Trinkaus graduated from the University of New Hampshire with a bachelor of science degree in Forest Management in 1980.

Seminar Information

Sheraton Columbia Town Center Hotel
10207 Wincopin Circle
Columbia, MD 21044
(410) 730-3900

Tuition

\$289 for individual registration
\$269 for three or more registrations.

Included with your registration: Complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 PDHs to professional engineers, 7.0 HSW learning units/continuing education hours to architects, and 7.0 HSW PDHs to landscape architects in most states, including Maryland.

The Maryland Board for Professional Engineers has approved HalfMoon Education as a CPC provider.

This seminar is approved by the American Institute of Architects for 7.0 HSW Learning Units (Sponsor No. J885). Courses approved by the American Institute of Architects are considered approved for Maryland architects.

This activity offers 7.0 HSW PDHs to Maryland landscape architects. This course is deemed acceptable, as it has been approved by the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Only full attendance can be reported to the AIA/CES and the LA/CES.

The New York State Education Department recognizes continuing education providers approved by the American Institute of Architects Continuing Education System and/or the Landscape Architecture Continuing Education System. Courses in approved subject areas are considered approved New York State mandatory continuing education for engineers.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is an approved Florida architect continuing education provider and is deemed an approved continuing education sponsor for New York architects and landscape architects.

The Association of State Floodplain Managers has approved this event for 7.0 CECS.

Additional Learning

Webinar Series

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development, Part I**

Wed., May 1, 2019, 11:00 AM - 2:30 PM CDT

- **Solar Photovoltaic Project Design and Development, Part II**

Thurs., May 2, 2019, 11:00 AM - 2:30 PM CDT

Passive House: Planning and Design

- **Energy Efficiency of Conventional Construction**

Thurs., May 9, 2019, 11:00 AM - 12:00 PM CDT

- **Passive House Standard: Purpose, Principles and Development**

Thurs., May 9, 2019, 12:30 - 2:00 PM CDT

- **Architectural Elements of Passive Houses**

Fri., May 10, 2019, 11:00 AM - 12:30 PM CDT

- **Mechanical Systems in Passive Houses**

Fri., May 10, 2019, 1:00 - 2:30 PM CDT

Erosion and Sediment Control

- **Soils and Causes of Erosion**

Thurs., May 16, 2019, 11:00 AM - 12:00 PM CDT

- **Goals for Selection of Erosion and Sediment Control Practices**

Thurs., May 16, 2019, 12:30 - 1:30 PM CDT

- **Calculations for Determining Soil Loss and Channel Stabilization**

Fri., May 17, 2019, 11:00 AM - 12:00 PM CDT

- **Non-Structural Erosion and Sediment Control Best Practices**

Fri., May 17, 2019, 12:30 - 1:30 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

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Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

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Complete the entire form. Attach duplicates if necessary.		Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.
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Tuition
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