

# Agenda

## Understanding Stormwater Permit Requirements and Procedures

J. Muthersbaugh

- Background and development of national and state regulations:
  - Federal Clean Water Act and New York State Department of Environmental Conservation regulations
- Recent and anticipated stormwater regulatory changes
- Activities exempt from construction general stormwater permit requirements
- Complying with NPDES, New York state and local requirements
- 2025 State Pollutant Discharge Elimination System (SPDES)
- Construction General Permit

## Understanding and Applying the Science of Stormwater

S. Souza

- 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)

S. Souza

- 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
  - Disconnected runoff
  - Raingardens
  - Stormwater planters
  - Pervious pavement
- Detention/retention ponds
- Vegetated swales
- Stream daylighting
- Green roofs
- Rain barrels/cisterns

## Developing Stormwater Pollution Prevention Plans (SWPPP)

E. White

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

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# New York State Stormwater Management 2025

Live, Interactive Webinar - Thursday, April 17, 2025

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CM16

## New York State Stormwater Management 2025

Live, Interactive Webinar - Thursday, April 17, 2025

This webinar covers stormwater permit requirements, including federal and state regulations, recent regulatory changes, and exemptions for construction activities. It explores the science behind stormwater management, addressing hydrology, runoff reduction, and best management practices such as green infrastructure and conservation techniques. Participants will also learn how to develop and implement stormwater best management practices and stormwater pollution prevention plans (SWPPPs), including site assessment, compliance strategies, and maintenance planning.

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# Webinar Information

Online - Thursday, April 17, 2025

<b>Log into Webinar</b> 8:00 - 8:30 am EDT	<b>Break</b> 11:15 am - 12:15 pm EDT
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<b>First Session</b> 8:30 - 11:15 am EDT	<b>Second Session</b> 12:15 - 4:00 pm EDT
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# Faculty

**John Muthersbaugh, EIT** *Assistant Engineer at New York State Department of Environmental Conservation in Albany*  
Mr. Muthersbaugh currently serves as an assistant engineer with the New York State Department of Environmental Conservation (NYSDEC) in Albany. At NYSDEC, Mr. Muthersbaugh works in the Division of Water, Bureau of Water Permits, with the SPDES Construction General Permit (CGP) program. Prior to joining NYSDEC, Mr. Muthersbaugh worked as a staff engineer with Enman Kesselring Consulting Engineers in Rutland, Vermont, and before that as an engineering intern with the New York State Department of Transportation in Albany. Mr. Muthersbaugh earned a B.S. degree in Civil Engineering Technology from SUNY Polytechnic Institute. Prior to his career in engineering, he worked in several industries including education and healthcare after earning a B.A. degree in Biblical & Theological Studies from Gordon College.

**Dr. Stephen J. Souza, Ph.D.** *Owner of Clean Waters Consulting, LLC, in New Jersey*  
Dr. Souza is the founding partner of Princeton Hydro, LLC. From its inception in 1998 through 2018, he served as president of Princeton Hydro, retiring from the company in 2019. Over the past 35 years he has dedicated his career to the management and restoration of aquatic ecosystems, in particular lakes, ponds and reservoirs. Dr. Souza received his B.S. degree in 1974 from the University of Massachusetts, Dartmouth, his M.S. degree in 1976 from Rutgers University, and his Ph.D. degree in 1981 from the University of Connecticut. He has served over the past 25 years as an instructor and course coordinator for the Rutgers NJAES Office of Continuing Professional Education, developing and implementing multiple short courses focused on the management and restoration of aquatic ecosystems. Dr. Souza is also an adjunct professor at Temple University (Ambler Campus), teaching a graduate studies course in the Department of Landscape and Horticulture (Tyler School of Art and Agriculture). He also conducts a professional continuing education course focusing on green infrastructure stormwater management for CPES through Montclair State University.

**Erik White, PE** *President, UEG Consulting, LLC, in Montclair, New Jersey*  
Mr. White has over 25 years of experience in engineering, ranging from compliance and industrial wastewater and air treatment system evaluations to remedial study/design projects. Mr. White works with clients across a variety of industries, including iron and steel, utilities, specialty chemicals, food and food additive processing, and petroleum refining. He has expertise in industrial wastewater and stormwater regulatory review and implementation support under the National Pollutant Discharge Elimination System (NPDES) Program. Mr. White earned a B.S. degree in Civil Engineering from the University of Massachusetts in Amherst and an M.S. degree in Environmental Engineering from the University of Michigan.



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# Additional Learning

**Urban Street Design**  
- Tuesday, March 18, 2025 | 9:00 am - 4:30 pm EDT  
  
**Temporary Construction Site Drainage and Stormwater Best Management Practices**  
- Wednesday, March 19, 2025 | 10:00 am - 5:00 pm EDT

**Use of Nature-Based Solutions for Stormwater Management and Flood Resiliency**  
- Tuesday, March 25, 2025 | 10:00 am - 12:00 pm EDT

**Using US EPA's Stormwater Management Model (SWMM)**  
- Wednesday, March 26, 2025 | 9:30 am - 5:00 pm EDT

**How to Naturalize an Existing Stormwater Detention/Retention Basin**  
- Monday, April 7, 2025 | 3:00 - 5:00 pm EDT

**Deep Dive into Construction Dewatering**  
- Friday, April 11, 2025 | 11:00 am - 1:00 pm EDT

**Deep Dive into PFAS in Our Water**  
- Friday, April 11, 2025 | 2:00 - 5:15 pm EDT

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