

Agenda

Understanding Stormwater Permit Requirements and Procedures

C. Dewey

- Background and development of national and state regulations and permit requirements
- Activities exempt from construction general stormwater permit requirements
- Complying with NPDES and Department of Energy and Environmental Protection regulations
 - Notice of intent requirements
 - What the permit covers and does not cover
 - Application process
 - General requirements and standard conditions
 - Implementing, monitoring and assessing SWPPPs

Understanding and Applying the Science of Stormwater

L. Mullen

- 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)

L. Hale
J. Hood

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

Developing Stormwater Pollution Prevention Plans (SWPPP)

K. Campbell

- 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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Florida Stormwater Management 2022

Live, Interactive Webinar - Friday, May 6, 2022

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Learning Objectives

You'll be able to:

Comply with NPDES and Department of Energy and Environmental Protection regulations for stormwater management.

Discuss the consequences of storm events and learn about stormwater modeling.

Understand the science of stormwater infiltration and percolation.

Use green infrastructure practices to decrease stormwater runoff.

Use green management techniques including riparian buffers, filter strips, vegetated swales, rain gardens and pervious pavement.

Review the required elements in stormwater pollution prevention plans.

Plan for required inspection and maintenance of stormwater infrastructure.



HalfMoon Education Live Webinars

Florida Stormwater Management 2022

Live, Interactive Webinar - Friday, May 6, 2022



Review permit requirements and procedures for stormwater management

Choose appropriate stormwater best management practices (BMPs)

Identify the consequences associated with stormwater events

Learn how to effectively develop Stormwater Pollution Prevention Plans (SWPPP)

Continuing Education Credits

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.65 CEUs (Sitework)



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Faculty

Cammie Dewey
Environmental Resource Program Manager, St. Johns River Water Management District

Ms. Dewey has a BS degree and an MS degree in Environmental Engineering from the University of Central Florida. She has worked for the St. Johns River Water Management District for 32 years, and most of her time has been within the Environmental Resource Permitting Regulatory Division. Ms. Dewey started at the District as a permit review engineer and progressed to her current position as program manager for the District’s permit review engineers. In the early 2000s she was the senior engineer for the Lake Apopka and Upper Ocklawaha Basin projects for four years. Ms. Dewey is a registered professional engineer in the state of Florida.

Lee Mullan, PE, D.WRE *Drummond Carpenter*

Mr. Mullan is a principal with the firm based in Orlando with over 18 years of experience practicing civil, environmental, and water resources engineering. His career has focused on the mutual interaction and balance between the natural and built environments. Mr. Mullan has provided professional engineering services to over 20 municipalities and state agencies in Florida, Michigan, Pennsylvania, and California, providing solutions to address flooding, water quality impairment, total maximum daily load (TMDL) regulatory challenges and compliance, natural systems degradation, water availability, and climate change vulnerability.Mr. Mullan is a subject-matter expert in stormwater management, watershed management, and civil infrastructure. He has direct professional experience designing, funding, permitting, constructing, and monitoring both conventional and innovative stormwater best management practices (BMPs), including stream restoration, flood control systems, lake management improvements, pollution forensic analysis, intelligent stormwater infrastructure, dam breach and safety analysis, and erosion control design. His proficiencies are evident from his work serving as an expert consultant in multiple litigation matters related to the Clean Water Act compliance, stormwater numerical modeling, pollution control, and stormwater BMP design.

Lee Hale *Senior Project Manager, S&ME, Inc, Orlando*

Mr. Hale is a senior project manager within the Civil Engineering Group for S&ME. He has split his career between designing and managing municipal water and wastewater systems and land development projects. He also spent a year as the engineering director for a company that managed large-scale stormwater construction management projects. Mr. Hale obtained a BS

degree in Civil Engineering from West Virginia University Institute of Technology and an MS degree in Engineering from Marshall University.

Jay Hood *Principal Director of Landscape Architecture S&ME, Inc., Orlando*

Mr. Hood is a principal landscape architect with Catalyst Design Group. He has over 35 years of experience with master planning, urban design, and landscape architecture for public spaces. He takes an integrated and comprehensive approach to design, striving for sustainability and multiple community benefits on each project. His innovative approach to green infrastructure is featured in the design of places, such as Gainesville’s Cade Museum of Creativity + Invention; PK Avenue Streetscape in Auburndale, Florida, and the public realm design for the NoMa Business Improvement District in Washington D.C. Mr. Hood is a frequent guest lecturer at universities and conferences and has spoken on low impact development and the benefits of green infrastructure investment at APWA, FSA, FDOT Design Conference and FRPA. His design philosophy focuses on functional and timeless design, grounded in context and equity of users. He brings this integrated approach to each project, leveraging his client’s investment to create a public realm that enhances the quality of life of residents, businesses and visitors.

Kathryn Campbell *President of Konzept Carma, Inc. (dba KBI)*

KCI was founded on the principle of empowering people to effectively deliver on promises to clients. KCI is a Florida-based minority women business enterprise (M/WBE) with various governmental entities throughout Florida. KCI has expertise in preparing stormwater pollution plans and performing NPDES inspections for construction projects and Industrial facilities. By implementing practical and sustainable environmental management solutions, KCI helps clients eliminate stormwater pollution which is the leading cause of water quality problems today. KCI helps clients take initiative to reduce stormwater pollution, so our ecosystem may remain healthy. During her 23 years in the construction industry, she has actively worked on many high-profile projects varying from land development for large homebuilders, commercial construction projects and roadways. Prior to stormwater management, Ms. Campbell gained experience through her involvement in pre-construction services, state of Florida of government affairs, and customer support and service. Ms. Campbell graduated from the University of Central Florida with a degree in Political Science. Stormwater is a passion for her, and she enjoys working on projects where her strengths can influence best management practices that will reduce unnecessary cost for clients while enhancing a positive impact on our environment.

Webinar Information

Log into Webinar 8:00 - 8:30 am EDT	Break 11:15 am - 12:15 pm EDT
Morning Session 8:30 - 11:15 am EDT	Afternoon Session 12:15 - 4:30 pm EDT

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This webinar has been approved by the Association of State Floodplain Managers for 6.5 CECs for floodplain managers.

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

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