

Agenda

Presented by Brad Flack, CPESC, CESSWI, QCIS

Selecting Stormwater Best Management Practices

- Site topography, hydrology and soils
- System sizing and design
- System performance
- Selection criteria

Reducing Site Disturbance and Increasing Natural Landscaping

- Benefits of natural landscaping
- Choosing native species for plantings
- Cost considerations and maintenance

Permeable Pavers

- Site criteria and product selection
- Preparation and installation
- Cost considerations and maintenance

Vegetated Roofs

- Benefits and life cycle cost
- Extensive roofs
- Intensive roofs
- Maintenance

Rain Barrels, Cisterns and Rain Gardens

- Stormwater collection
- Water storage
- Reuse
- Garden sizing and design
- Cost considerations

Filter Strips and Drainage Swales

- Benefits and design considerations
- Choosing appropriate vegetation
- Cost considerations and maintenance

Detention Basins and Ponds

- Benefits and site selection
- Sizing and design
- Choosing native vegetation
- Maintenance considerations

Stormwater Best Management Case Studies

Stormwater

Best Management Practices

Live, Interactive Webinar - Thursday, November 12, 2020



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Learning Objectives

You'll be able to:

Explain the purposes and benefits of practices that reduce site disturbance and preserve natural areas during development and construction.

Evaluate site size, use, topography, hydrology, and soils to determine appropriate stormwater best management practices.

Describe the benefits of and applications for rain barrels, cisterns, rain gardens, filter strips and green roofs.

Describe the benefits of and application for detention basins and ponds, and learn criteria for sizing and design.



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Discuss considerations that impact the choice of stormwater management BMPs, including site topography, hydrology, soils and system capacity.

Explain the benefits of practices that reduce site disturbance during project development, and discuss the benefits of natural landscaping.

Describe the benefits of, and applications for, rain barrels, cisterns, rain gardens, filter strips and drainage swales.

Explore the benefits and costs of permeable pavers, vegetated roofs and detention basins.

Continuing Education Credits

Professional Engineers
7.0 PDHs

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7.0 HSW CEPHS

AIA
7.0 LU|HSW

International Code Council
.7 CEUs (Sitework)

Landscape Architects
7.0 HSW CEPHS

LA CES
7.0 HSW PDHs

Floodplain Managers
7.0 ASFPM CECs



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Brad Flack, CPESC, CESSWI, QCIS *President & CEO of Integrity Stormwater*

Mr. Flack has earned his designation, among select thousands in the world, as a certified professional in erosion and sediment control (CPESC) as well as his designation as a certified erosion, sediment and stormwater inspector (CESSWI) and a course instructor, lending his experience and training to his customers for all of their stormwater needs. Furthermore he is among the select few who are qualified compliance inspectors of stormwater (QCIS). He has served as the president and the administrative vice president of the South Central Chapter of the International Erosion Control Association (IECA). Mr. Flack was the Region 6 president for EnviroCert International and has served as the Region 7 representative for CPESC, Inc. He was technical vice-chair for the CPESC Council, and he is on the Education Committee: Stormwater Management Track for the International Erosion Control Association Region 1 which encompasses North America, South America and Europe, where he has served as chair. Mr. Flack was awarded Young Professional of the Year for 2014 by the IECA Region 1 and is also an IECA Mentor. He also served as a member of the Policies and Procedures Committee and the Certified Professional in Industrial Stormwater Management Committee for EnviroCert International. He is an EnviroMentor for the Texas Commission on Environmental Quality (TCEQ) as well as a member of the TCEQ Houston Area Small Business Advisory Council. Mr. Flack has been involved with stormwater management since 2004, when he learned about permitting, turf establishment, erosion control and detention pond maintenance. He has since continued to learn and develop his stormwater knowledge and skills and is now a speaker at many conferences sharing his expertise across the US and internationally. He is married to his high school sweetheart and they have three boys. He works both locally and internationally on humanitarian projects and in missionary service.

Webinar Information

Log into Webinar	Break
8:00 - 8:30 am CST	12:30 - 1:30 pm CST
Morning Session	Afternoon Session
8:30 am - 12:30 pm CST	1:30 - 5:00 pm CST

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Small Wind Energy Systems
- Thurs., October 22, 2020 | 11:00 am - 1:00 pm CDT
- Fri., October 23, 2020 | 11:00 am - 1:00 pm CDT

The Arborist Short Course:
Advanced Tree Knowledge for Better Tree Care
- Fri., October 23, 2020 | 8:00 am - 3:30 pm CDT

How to Navigate the New
Federal Navigable Waters Protection Rule
- Fri., October 23, 2020 | 12:00 - 2:00 pm CDT

International Building Code 2018
- Mon., October 26, 2020 | 9:00 am - 5:30 pm CDT

Aerial Mapping:
Technologies and Procedure
- Tues., October 27, 2020 | 8:30 am - 12:00 pm CDT
- Wed., October 28, 2020 | 8:30 am - 12:15 pm CDT

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The Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full participation is reportable to the LA CES.

The Association of State Floodplain Managers has approved this event for 7.0 CECs for Certified Floodplain Managers. ASFPM approval qualifies this course for Texas floodplain managers.

The International Code Council has approved this event for .7 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

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).

Registration

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