

Agenda

Presented by Rachael Keish, PE

California Stormwater Management 2021 Day One

Tuesday, January 26, 2021 | 8:30 am - 12:30 pm PST (including 30-mins. of break)

Understanding Stormwater Permit Requirements and Procedures in California

- Background and development of national and state regulations and permit requirements
- Activities exempt from construction general stormwater permit requirements
- Complying with NPDES and the California State Water Resources Control Board
 - 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

- 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
 - Vegetated swales
 - Stream daylighting
 - Green roofs
 - Rain barrels/cisterns
 - Proprietary practices
 - Riparian buffers and filter strips
 - Disconnected runoff
 - Rain gardens
 - Stormwater planters
 - Porous pavement

California Stormwater Management 2021 Day Two

Wednesday, January 27, 2021 | 8:30 am - 12:30 pm PST (including 30-mins. of break)

Choosing Appropriate Storm Water Best Management Practices (BMPs) Continued

Developing Stormwater Pollution Prevention Plans (SWPPP)

- Including required element
- 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

California Stormwater Management 2021

Online - Tues., January 26 and Wed., January 27, 2021



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Learning Objectives

You'll be able to:

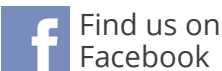
Identify how to comply with NPDES and the California State Water Resources Control Board regulations.

Explore the consequences of storm events and learn how to use stormwater models to predict runoff and routing.

Understand how to choose stormwater best management practices, including use of natural areas, riparian buffers, vegetated swales, rain gardens, cisterns and porous pavement.

Analyze the contents of stormwater pollution prevention plans, including required elements, and plans for inspection, maintenance, and record.

Implement monitoring plans and review real-world case studies.



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HalfMoon Education Online Learning

California Stormwater Management 2021

Live, Interactive Webinar Series

Tuesday, January 26 and Wednesday, January 27, 2021



Analyze stormwater permit requirements and procedures in California

Understand and apply the science of stormwater

Examine choosing appropriate stormwater best management practices (BMPs)

Learn how to develop stormwater pollution prevention plans (SWPPP)

Discuss plans for inspection, monitoring, maintenance and recordkeeping

Continuing Education Credits

Professional Engineers
7.0 CE Hours

Architects
7.0 CE Hours

AIA
7.0 LU | HSW

Continuing education is not mandatory for California engineers, architects, or landscape architects.

Landscape Architects
7.0 CE Hours

LA CES
7.0 HSW PDHs

Floodplain Managers
7.0 ASFPM CECS

International Code Council
.7 CEUs (Sitework)



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Faculty

Rachael Keish, PE *CEO at Keish Environmental*

Ms. Keish has over 20 years of experience in civil engineering, specializing in environmental program management, stormwater, and construction mitigation compliance. Her project experience includes work in design and construction. As CEO of Keish Environmental she oversees environmental compliance on large infrastructure projects such as the Valley Transportation Plan 2035 Highway Program, BART Silicon Valley Extension and Valley Water flood control and restoration projects. Ms. Keish also assists agencies with stormwater program compliance under NPDES permits. She is a California Stormwater Quality Association qualified trainer under the Statewide Construction General Permit and Industrial General Permit, as well as a QSP/D and QISP. Ms. Keish is also an Envision Sustainability Professional (ENV SP) with the Institute for Sustainable Infrastructure, as well as an ISI Verifier and Trainer. She is active in CASQA, WTS, CMAA, APWA, CWPA, and ASCE, serving as the 2016-2018 San Francisco Section ASCE Sustainability Committee Chair. Ms. Keish is currently chair of the WTS Women’s Leadership Program. She founded CASQA Non-Traditional Phase 2 MS4 Subcommittee, serving as workgroup lead from 2015-2019 and as current subcommittee co-chair. Ms. Keish was recognized at the 2016 and 2018 CASQA Annual Conference with Outstanding Service Awards. She has a B.S. degree in Civil Engineering from The University of Texas at Austin, and an M.S. degree in Environmental Engineering from UC Berkeley.

Webinar Information

Day One: Tuesday, January 26, 2021
8:30 am - 12:30 pm PST (including 30-mins. of break)

Day Two: Wednesday, January 27, 2021
8:30 am - 12:30 pm PST (including 30-mins. of break)
(please log into the webinar 15 - 30 minutes before start time)

Tuition
\$289 for individual registration
\$199 for three or more registrants from the same company at the same time.
***Included with your registration:* PDF seminar manual.**

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

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

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

Additional Learning

Special Inspections under the 2018 International Building Code Chapter 17
- Mon., Jan. 11, 2021 | 7:30 am - 3:00 pm CST

Passive House: Planning and Design
- Mon., Jan. 11, 2021 | 11:00 am - 2:15 pm CST
- Tues., Jan. 12, 2021 | 11:00 am - 2:45 pm CST

Introduction to HEC-HMS Modeling
- Tues., Jan. 12, 2021 | 8:30 am - 5:00 pm CST

Landscaping for Pollinators
- Wed., Jan. 13, 2021 | 10:00 am - 12:00 pm CST

Structural Forensic Engineering
- Wed., Jan. 13, 2021 | 10:00 am - 1:45 pm CST
- Thurs., Jan. 14, 2021 | 10:00 am - 1:45 pm CST

Practical Site Engineering: Science & Techniques
- Wed., Jan. 13, 2021 | 10:00 am - 1:45 pm CST
- Thurs., Jan. 14, 2021 | 10:00 am - 1:45 pm CST

Commercial Provisions of the IECC
- Thurs., Jan. 14, 2021 | 11:00 am - 3:30 pm CST
- Fri., Jan. 15, 2021 | 11:00 am - 2:00 pm CST

The Arborist Short Course: Advanced Tree Knowledge for Better Tree Care
- Fri., Jan. 15, 2021 | 9:00 am - 4:30 pm CST

Slab-on-Grade Concrete and Pavement for Private Facilities
- Tues., Jan. 19, 2021 | 11:00 am - 2:45 pm CST
- Wed., Jan. 20, 2021 | 11:00 am - 2:45 pm CST

Mitigating Fire Risks through Landscape Design, Materiality, and Stewardship
- Thurs., Jan. 21, 2021 | 11:00 am - 1:00 pm CST

Project Management Fundamentals for Engineers
- Tues., Jan. 26, 2021 | 8:30 am - 4:00 pm CST

For more information and other online learning opportunities visit: www.halfmoonseminars.org

Continuing Education Credit Information

This webinar offers 7.0 continuing education hours to California-licensed professional engineers, architects, and landscape architects. Continuing education is not mandatory for license maintenance in California. The hours earned at this webinar may qualify for continuing education credit in other states. Refer to specific state continuing education rules to determine eligibility..

This course has been approved by the American Institute of Architects Continuing Education System for 7.0 LU | HSW (Sponsor No. J885) and the Landscape Architect Continuing Education System for 7.0 HSW PDHs. Only full participation is reportable to the AIA/CES and LA CES.

The Association of State Floodplain Managers has approved this course for 7.0 CECs.

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).

Can’t Attend? Order the Webinar as a Self-Study Package!
Recordings of this webinar are available for purchase. 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

California Stormwater Management 2021
Live, Interactive Webinar - Tuesday, January 26 and Wednesday, January 27, 2021

How to Register		Registrant Information
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Fax: 715-835-6066		Occupation: _____
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Code: 715-835-6066		Phone: _____
		Additional Registrants:
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		Name: _____
		Occupation: _____
Complete the entire form. Attach duplicates if necessary.		Email: _____
		Phone: _____
		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.
		() I need special accommodations. Please contact me.

Tuition
() I will be attending the live webinar. Single Registrant - \$289.00 . Three or more registrants from the same company registering at the same time - \$199.00 each.
() I am not attending. Please send me the webinar recording: ☐ Streamable MP4 Video/PDF Manual for \$299.00 . ☐ USB Video/PDF Manual for \$299.00 .
Checks: Make payable to HalfMoon Education Inc.
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