

Agenda

Presented by Mr. Javier Vélez Arocho

Understanding Stormwater Permit Requirements and Procedures for MS4s

- Defining MS4s: large, medium and small
- Understanding requirements for general and individual permits
- FY2016 New NPDES-MS4 Permit – EPA Region 02 – CEPD
- What's new under the new permit – challenges for small municipalities

Obtaining Individual Permits for Phase I (Large and Medium-Size) Systems

- Permit application requirements
 - Special conditions for sensitive waters
 - Review and permitting process
 - Complying with program requirements: funding and resources

Obtaining General Permits for Phase II (Small) Systems

- Permit application requirements
 - Special conditions for sensitive waters
 - Review and permitting process
 - Complying with program requirements: funding and resources

Developing MS4 Best Practices for Phase II Systems

- Public education: meetings/public hearings
- Public involvement: workshops and seminars
- Illicit discharges: follow-up the ID process
- Construction
- Post-construction
- Pollution prevention/good housekeeping

Complying with Requirements for Phase II Monitoring, Recordkeeping and Reporting

- Understanding the science and terminology of stormwater management and monitoring
- Implementing monitoring plans
- Reviewing stormwater BMP case studies: Dorado, Isabela and Carolina
- Potential sources of funding for the MS4 program implementation

Stormwater Management for Municipal Separate Storm Sewer Systems (MS4s)
San Juan, PR - Friday, August 3, 2018

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Learning Objectives

You'll be able to:

Learn about stormwater permit requirements and procedures for MS4s.

Discuss how to obtain individual permits for Phase I (large and medium-size) systems.

Learn about obtaining general permits for Phase II (small) systems.

Examine developing MS4 best practices for Phase II systems.

Review requirements for Phase II monitoring, recordkeeping and reporting.



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Continuing Education Credits

Architects & Landscape Architects

- 6.5 Puerto Rico HSW HEC
- 6.5 AIA HSW Learning Units
- 6.5 LA CES HSW PDHS

Construction Contractors

Non-credit Continuing Ed.

Professional Engineers

- 6.5 Puerto Rico HC



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Faculty

El Sr. Javier Vélez Arocho es un consultor ambiental con 26 años de experiencia en Puerto rico y Estados Unidos. Ha laborado como Director Asociado del Programa Sea Grant de la Universidad de Puerto Rico, Recinto Universitario de Mayagüez; como Especialista en Protección Ambiental de la Agencia de Protección Ambiental de Estados Unidos y fue Secretario del Departamento de Recursos Naturales y Ambientales de Puerto Rico. Junto a su esposa Pamy Rojas formaron la compañía EcoStahlia Consultores Ambientales, y es uno de los asesores en asuntos gubernamentales y ambientales del proyecto de la planta de recuperación de energía propuesto por la compañía Energy Answers. El Sr. Javier Vélez Arocho especializa en proyectos relacionados a la protección de la calidad del agua y restauración de humedales. Actualmente su compañía gerencia más de 12 programas en Puerto Rico enfocados en Manejar la Contaminación de Aguas por Escorrentía. Posee un Bachillerato en Biología de la Universidad Católica y una Maestría en Biología del UPR-Mayagüez.

Mr. Javier Vélez Arocho is an environmental consultant with 26 years of experience in Puerto Rico and the USA. He has worked as associate director of the Sea Grant Program of the University of Puerto Rico, Mayagüez Campus and as an environmental protection specialist for the US Environmental Protection Agency, and he was secretary of the Puerto Rico Department of Natural and Environmental Resources. Together with his wife Pamy Rojas, they formed the company EcoStahlia Consultores Ambientales, and are one of the advisers in governmental and environmental matters of the waste-to-energy plant proposed by Energy Answers, LLC. Mr. Javier Vélez Arocho specializes in projects related to the protection of water quality and wetlands restoration. His company currently manages more than 12 programs in Puerto Rico focused on preventing pollution from stormwater discharges. He holds a bachelor’s degree in Biology from the Catholic University and a master’s degree in Biology from UPR-Mayagüez.

Seminar Information

San Juan Marriott Resort & Stellaris Casino 1309 Ashford Avenue San Juan, PR 00907 (787) 722-7000	Registration 8:00 - 8:30 am Morning Session 8:30 am - 12:00 pm Lunch (on your own) 12:00 - 1:00 pm Afternoon Session 1:00 - 4:30 pm
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Tuition
\$219 for individual registration
\$199 for three or more registrations.
Each registration includes a complimentary continental breakfast and printed 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

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. 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 6.5 HSW continuing education hours (HEC) to Puerto Rico architects and landscape architects and 6.5 hours of continuing education (HC) to Puerto Rico engineers.

This course is approved by the American Institute of Architects for 6.5 HSW Learning Units (AIA Sponsor No. J885) and the Landscape Architecture Continuing Education System for 6.5 HSW PDHs. Only full attendance can be reported to the AIA/CES and the LA/CES.

Architects, landscape architects, and professional engineers licensed in US states will be able to claim the hours earned at this seminar, in most cases. Refer to specific state rules to determine eligibility. HalfMoon Education is deemed an approved continuing education sponsor for New York architects. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

This seminar offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any contractor licensing entity with a continuing education requirement.

Additional Learning

Webinar Series

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development Part 1**
Thurs., July 5, 2018, 11:00 AM - 2:15 PM CDT
- **Solar Photovoltaic Project Design and Development Part 2**
Fri., July 6, 2018, 11:00 AM - 2:15 PM CDT

AutoCAD 3D

- **Using Key Commands and Tools**
Part I: Wed., July 11, 2018, 11:00 AM - 2:15 PM CDT
Part II: Thurs., July 12, 2018, 11:00 AM - 2:15 PM CDT
- **Building a Solid Model**
Part I: Wed., July 18, 2018, 11:00 AM - 2:15 PM CDT
Part II: Thurs., July 19, 2018, 11:00 AM - 2:15 PM CDT

Septic Systems Series

- **Onsite Wastewater Treatment Technologies, Regulations and Contaminant Removal**
Thurs., July 19, 2018, 11:00 AM - 12:30 PM CDT
- **Evaluating Sites, Setting Treatment Goals and System Design**
Thurs., July 19, 2018, 1:00 - 2:30 PM CDT
- **Alternative and Sustainable Treatment Technologies**
Fri., July 20, 2018, 11:00 AM - 12:30 PM CDT
- **Management Programs for Onsite Wastewater Treatment Systems**
Fri., July 20, 2018, 1:00 - 2:30 PM CDT

Retaining Walls and Slope Stabilization

- **Retaining Wall Basics**
Thurs., July 26, 2018, 11:00 AM - 12:00 PM CDT
- **Geosynthetics and Retaining Walls**
Thurs., July 26, 2018, 12:30 - 3:00 PM CDT
- **Slope Stability and Geosynthetics**
Fri., July 27, 2018, 11:00 AM - 12:30 PM CDT
- **Slope and Retaining Wall Failures, Fixes and Prevention**
Fri., July 27, 2018, 1:00 - 3:00 PM CDT

National Electrical Code

- **National Electrical Code, Part I**
Tues., July 24, 2018, 11:00 AM - 3:30 PM CDT
- **National Electrical Code, Part II**
Weds., July 25, 2018, 11:00 AM - 3:30 PM CDT
- **National Electrical Code, Part III**
Thurs., July 26, 2018, 11:00 AM - 3:30 PM CDT

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

Registration

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How to Register		Registrant Information
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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.

()  I need special accommodations. Please contact me.

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$219.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.

Checks: Make payable to HalfMoon Education Inc.

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