



W6: Subsurface Gravel Wetland; Research Based Stormwater System Design Workshop

Instructors: Dr. Thomas P. Ballestero, P.E. Associate Professor of Civil Engineering at UNH Member of the Environmental Research Group Water Resource Engineering and Hydrology UNH Stormwater Center Director and Principal Investigator; Dr. James Houle, CPSWQ, CPESC, UNH Stormwater Center Program Director.

Purpose

This half day workshop features science based, technical information and research results related to the design, construction, performance and maintenance of Subsurface Gravel Wetland stormwater treatment systems. It was developed for engineers and other professionals involved in the development or review of stormwater treatment designs, such as individuals from private consulting firms, public works departments, and planning offices.

Course Objectives

- Improve your ability to design, construct, and maintain subsurface gravel wetland treatment systems to achieve water quality targets in compliance with current and impending regulations.
- Use understanding of system performance to address both water quality and quantity;
- Review gravel wetland designs and make recommendations to maximize project success.

Target Audience

Civil engineers in the public sector or in private sector consulting, state/municipal officials, stormwater agency staff, transportation agency staff, and other design professionals

Agenda

12:45 – 1:00 p.m. Registration - Welcome, Handouts and Workshop Materials

1:00 – 1:20 p.m. History, Water Quality Performance, Hydraulic Performance, Hydraulic Control

1:20 – 1:40 p.m. Regulatory Criteria

1:40 – 2:00 p.m. Break

2:00 – 2:30 p.m. Design Considerations, Siting, Design Specifications, and Construction

2:30 – 3:00 p.m. Questions and Answers