



North Carolina Stream Assessment Method (NC SAM) and Training Course

Raleigh, NC – September 11-14, 2018



Class Location:

*Class taught at Traffic Engineering Offices, NC Department of Transportation, 750 N. Greenfield Parkway, Garner, NC 27529
919-522-6364 (Dorney cell)*

Registration Fee:

\$745 (or \$720 for NCAEP members)

Conducted by:

John Dorney, Sandy Smith, LeiLani Paugh, and Greg Price

Introduction: This 4-day lecture and field course will focus on the North Carolina Stream Assessment Method (Version 2.1) (NC SAM) that was implemented by the U.S. Army Corps of Engineers, Wilmington District (USACE) in a public notice dated April 21, 2015. The USACE intends to utilize NC SAM for internal reviews of permit applications, including decisions regarding the amount and type of compensatory mitigation, avoidance and minimization of impacts, or other decisions pertaining to aquatic resource quality and functions on a case-by-case basis. Environmental consultants, federal and state agency personnel, and local government staff members who deal with regulatory programs related to streams are encouraged to attend. Emphasis will be on identification of North Carolina stream categories, determination of evaluation areas, discussion of evaluation concepts and functional assessment metrics, familiarization with common stream aquatic life, experience using the computer rating calculator, and field exercises in both undisturbed and disturbed streams. The course will conclude with a written test and aquatic life practical, and successful students will be presented with a Certificate of Training. Though the method is specific to North Carolina, this course may also be useful for professionals who work in neighboring states. Continuing education credits have been requested and approved for Foresters (SAF), Engineers (NCBELS), Landscape Architects (NCBOLA), Erosion & Sediment Control (CPESC), and Storm Water Quality (CPSWQ). In addition, others can be sought upon request. Applicants who are interested in continuing education credits must notify us by e-mail so appropriate arrangements can be made.

Instructors:

John Dorney: Senior Environmental Scientist, Moffatt & Nichol and retired from N.C. Division of Water Quality, Wetlands and Stormwater Branch. Mr. Dorney worked with the Division of Water Quality for over 28 years, was actively involved in the development of NC SAM, as well as the N.C. Wetland Assessment Method, and has taught courses in these methods for more than 5 years as well as numerous courses in stream identification in the Southeast. He is an expert in wetland and stream functional assessment, isolated wetlands, as well as wetland and stream permitting and is a lead editor (and chapter author along with Sandy Smith and LeiLani Paugh) for a new book published by Elsevier Scientific entitled *“Wetland and Stream Rapid Assessments: Development, Validation, and Application”*. Edited by John Dorney, Rick Savage, Ralph Tiner, and Paul Adamus”

Sandy Smith: Senior Project Manager, Axiom Environmental, Inc. Mr. Smith has worked as a private environmental consultant in North Carolina for 27 years, was actively involved in the development of NC SAM, as well as the N.C. Wetland Assessment Method, and has taught courses in these methods for more than 5 years. He is an expert in wetland delineation, functional assessment, and permitting.

LeiLani Paugh: ICI/On-Site Mitigation Group Leader, N.C. Department of Transportation (NCDOT), Project Development and Environmental Analysis Branch, Natural Environment Section. Ms. Paugh has worked for NCDOT for 17 years, was actively involved in the development of NC SAM, as well as the N.C. Wetland Assessment Method, and has taught courses in these methods for more than 5 years. She is an expert in wetland delineation, functional assessment, mitigation, and permitting.

Greg Price Senior Scientist, NC Department of Transportation. Mr. Price has worked as a private environmental consultant in North Carolina for over 7 years, and as an environmental specialist/biologist for state and local government of NC for more than 20 years, and has taught courses in these methods for several years. He is an expert in wetland delineation, stream biological monitoring, and wetland and stream permitting

Logistics: The lecture portion of the course will be conducted in a classroom setting each morning, while field exercises will be conducted at various locations on Tuesday, Wednesday, and Thursday afternoons. All field trips will depart from the classroom site, and vans will be provided for transportation for the second and third days. Field trips are conducted in all weather conditions except unsafe weather. If field trips cannot be conducted due to weather, the class or a portion thereof will be rescheduled. Knee boots or hiking boots will be adequate for the field trips.

The registration fee includes the NC SAM User Manual, class paper supplies, and field trip transportation, as well as field snacks, drinking water and lunches on two field days. **Liability waivers must be signed upon your arrival to class.**

Registration: Class enrollment is set at a minimum of 23 registrants and a maximum of 30 registrants. Payment is can be made to the NC Association of Environmental Professionals (NC AEP) by check or credit card at www.ncaep.org. Cancellations prior to September 3 will receive a full refund. Cancellations after September 3 will receive a refund of the registration fee less a \$100 administrative fee. Paid registrations may be transferred to another individual upon written request. No refunds will be given after the start of the class. Registrations after September 3 will be charged an additional \$100.00.