



STATE OF NORTH CAROLINA, DEPARTMENT
OF ENVIRONMENT AND NATURAL RESOURCES
William G. Ross, Jr. Secretary

Land Quality Section
Division of Land Resources
James D. Simons, Director and State Geologist

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Students learn advanced erosion & sedimentation control technologies in Wilmington, NC

The Wilmington Advanced Erosion and Sedimentation Control Workshop held at the Hilton Riverside Hotel on February 24-25, 2004, covered a variety of topics. As the first speaker, Mr. Mell Nevils, Land Quality Section Chief, stated that erosion control is cost effective – *groundcover is the single most important thing you can do on your site.*

On Tuesday afternoon, about 100 workshop attendees went to the Villages at Mayfaire construction site. Behind the nearby whirl of nail guns and large machinery, attendees saw educational demonstrations. The various erosion and sedimentation control technologies were as follows:

preventative surface sedimentation control measures including polymer floc logs, inlet protection and geotextile fabrics, automated silt fence installation, a polymer injection system using a dirt bag to filter sediments out of the storm pond water, and compost groundcover application on a stockpile. A big thank you goes to both the developer, Mr. Jim Grdich of State Street Construction Company and the contractor, Mr. Keith Stark of Cape Fear Paving and Grading, for the use of the Villages at Mayfaire site. Mrs. Beth Wetherill of the New Hanover County Local Program deserves kudos for coordinating the demonstrations and site logistics.

On Wednesday, one of the interesting presentations was learning about the freshwater mussel reproductive cycle and how the mussel is greatly sensitive and adversely affected by the amount of sedimentation in streams and rivers.

Helpful comments and suggestions on the evaluation forms came from workshop participants. This information will be reviewed and applied to future workshops. If you would like to view the speaker presentation content as well as workshop photos, go to <http://www.ncsu.edu/wrri/erosionseminars.html> and follow the link to the Wilmington Workshop, February 24 - 25, 2004.

***Sediments* via email:**

A nice alternative to paper

This fall we will be starting a Sediments Newsletter List Serve. The purpose of this list serve will be to disseminate the Sediments newsletter via email and cut down on paper use. Those who sign up for this alternative will be removed from the mailing lists for the hard copy mailings. Anyone who is interested in this alternative please contact Kelly Porter at 919-515-2815 or kelly_porter@ncsu.edu.



Demonstration of dirt bag filtering sediments out of stormwater pond using polymer injection system.

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Russian Ecologists Visit Asheville Regional Office

On October 6, 2003, a delegation of eight Russian ecologists visited the North Carolina Department of Environment and Natural Resources to learn about the oversight of regulations regarding air, water and land quality.



The visit was sponsored locally by Friendship Force and by the Open World Program - the only exchange program housed in the legislative branch of the U.S. government. The program brings emerging Russian leaders to the U.S. for a 10-day training program. Ms. Alison Davidson and Mr. Mike Goodson of the Asheville Regional Office represented the Land Quality Section.

Now Available NC Erosion and Sediment Control Planning and Design Manual

The NC Erosion and Sediment Control Planning and Design Manual provides extensive details and procedures for developing site-specific erosion and sedimentation control plans, consistent with the requirements of the NC Sedimentation Pollution Control Act and Administrative Rules. The manual is the 1988 version which contains 568 pages.

The manual is available for \$65.00 in state and \$75.00 out of state. The price includes tax and shipping. Make a check or money order payable to NCDENR and send it with a request (including your name, address, phone number and email) for the NC Erosion and Sediment Control Planning and Design Manual to:

Land Quality Section, Division of Land Resources
Department of Environment & Natural Resources
1612 Mail Service Center
Raleigh, NC 27699-1612

Please include your street address for delivery by the package delivery service. For more information, call the Land Quality Section at (919) 733-4574. The web address is: <http://www.dlr.enr.state.nc.us/eros.html>



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Send comments to Janet Paith, CPESC, NCDENR-Land Quality, 1612 Mail Service Center, Raleigh, NC 27699-1612. Email: Janet.Paith@ncmail.net. Send change of address and subscription information to WRRRI, Box 7912, North Carolina State University, Raleigh, NC 27695-7912 (919/515-2815; water_resources@ncsu.edu). Fifty-nine hundred copies of this newsletter were printed at a cost of \$1,433.80 or 24 cents per copy.

Personnel of the Land Quality Section of the N.C. Department of Environment and Natural Resources provide information and assistance for implementation of the N.C. Erosion and Sedimentation Control Program. For assistance, please contact the Regional Engineer or the Raleigh headquarters listed below:

Hugh "Carson" Fisher, P.E.
2090 US Highway 70
Swannanoa, NC 28778 (828) 296-4500

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Fayetteville, NC 28301 (910) 486-1541

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919 N. Main Street
Mooresville, NC 28115 (704) 663-1699

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Raleigh, NC 27609 (919) 571-4700

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Raleigh, NC 27699-1612 (919) 733-4574

The North Carolina
Sedimentation Control Commission

The Sedimentation Control Commission (SCC) was created to administer the Sedimentation Control Program pursuant to the N.C. Sedimentation Pollution Control Act of 1973 (SPCA). It is charged with adopting rules, setting standards, and providing guidance for implementation of the Act. The composition of the Commission is set by statute to encompass a broad range of perspectives and expertise in areas related to construction, industry, government, and natural resource conservation and quality. All members are appointed by the Governor and serve three-year terms, except for the Director of the Water Resources Research Institute of The University of North Carolina, who serves as long as he remains Director. The chairman of the SCC is named by the Governor.

Chairman:

Kyle Sonnenberg
Southern Pines

Rep. Association of County Commissioners/
N.C. League of Municipalities

Commissioners:

W. T. "Buzz" Bryson
Cary

Rep. N.C. Public Utilities

Hugh J. Franklin
Marion

Rep. N.C. Mining Com.

Phillip Ray Gibson
Cullowhee

Rep. Non-governmental Conservation

J. Wendell Gilliam
Raleigh

Rep. NCSU Dept. of Soil Science

Rep. N.C. Environmental Management Com.

Grover McPherson
Winston-Salem

Rep. N.C. Soil and Water Conservation Com.

Kenneth H. Reckhow
Durham

Director of Water Resources Research
Institute of The University of North Carolina

Joseph Rudek
Hillsborough

Rep. Non-governmental Conservation

Ralph Stout
Greensboro

Rep. Carolinas Associated General
Contractors

Mark A. Taylor
Greensboro

Rep. Professional Engineers of N.C.

F. Roger Watson
Asheville

Rep. N.C. Home Builders Association

Personnel Changes

- **Hugh "Carson" Fisher** is the new Regional Engineer in the Asheville Regional Office.
- **Stephanie Graham** and **Charlie Whaley** are the new Environmental Technicians in the Mooresville Regional Office.
- **Gary Novak** is the new Environmental Technician in the Washington Regional Office.
- **Angela Sanderson** is the new Environmental Technician in the Fayetteville Regional Office.

The Asheville Regional Office moved to Swannanoa, NC, on March 22, 2004.

The new address is:

2090 US Highway 70

Swannanoa, NC 28778

Phone: (828) 296-4500 Fax: (828) 299-7043

Local Programs Erosion & Sedimentation Control Workshop

Southern Pines was host town where many of the NC Erosion and Sediment Control local representatives gathered for the Annual Local Programs Workshop on March 2-3, 2004. The presentations were well attended and sparked good discussion. A lot of productive networking went on afterhours over dinner, pingpong, pool and more. Plus, Mr. Marc Pruett of Haywood County and Mr. John Whittekind of Jackson County gave a phenomenal banjo and mandolin concert.



Mr. Mell Nevils leads discussion at the Local Programs Workshop.

Call for Presentations

2005 International Erosion Control Association Annual Conference and Expo

The International Erosion Control Association has issued a call for presentations for the Annual Conference and Expo to be held February 20-24, 2005 in Dallas, Texas. Conference track topics include slope technology, stream restoration, vegetative establishment, storm water management, wetlands technology, erosion and sediment control, and beach and shoreline stabilization.

Contractors, design professionals, government personnel, researchers, and manufacturers should submit abstracts for technical papers, training workshops, new product symposium, computer product symposium, outstanding case studies, poster presentation, and forums.

Abstracts are due to IECA on **Friday, April 23, 2004** and may be submitted online. For additional details and instructions for submitting abstracts visit the IECA web site: <http://www.ieca.org/>.

Haywood and Mecklenburg Counties Win Local Program Awards

The Local Erosion and Sedimentation Control Program Awards Luncheon was held March 2, 2004, at the Mid-Pines Inn in Southern Pines, NC, as part of the Local Programs Workshop.

Haywood County received the Local Programs Award of Excellence for a program with a staff of fewer than three people. Located 25 miles west of Asheville in the mountains of North Carolina, the Haywood County Local Program began in 1988 and has grown to two full-time and one part-time position. Mr. Michael Brookshire of Buncombe County nominated Haywood County and states that, "Inspections have increased, documentation has improved and the program has an ever-present goal of approving and seeing implemented the best possible plans for land-disturbing activity."

Haywood County has been proactive in creating documents used in site inspection. These forms include the document known as the "Sworn Declaration of Agricultural Exemption for Land-Disturbing Activity" which is used by the Land Quality Section and other local programs as well as an affidavit which requires active performance commitments from those financially responsible for the land-disturbing activity. Haywood County continues to reach their goal of gaining "the highest level of compliance in the most reasonable and effective fashion". You may view their web site at: <http://www.gov.co.haywood.nc.us/erosion.html>.

Mecklenburg County received the Local Programs Award of Excellence for a program with more than three staff members. Being in operation since 1974, Mecklenburg County Local Program serves the outlying communities around the city of Charlotte which include



Marc Pruett (fourth from left), Erosion Control Specialist for Haywood County, receives the Local Program Award for programs with fewer than three staff members from N.C. Sedimentation Control Commission (SCC) member Wendell Gilliam (third from left) and SCC Chairman Kyle Sonnenberg (right). Joining Marc for the presentation were Tim Sisk (left) and Debbie Caldwell (second from left), Office Assistant.



Will Autry (fourth from left), Erosion Team Leader for Mecklenburg County, receives the Local Program Award for programs with more than three staff members from SCC member Wendell Gilliam (third from left) and SCC Chairman Kyle Sonnenberg (fifth from left). Joining Will for the presentation were Tom Hodge (left), Plan Reviewer, Michael Burkhard (second from left), Erosion Control Inspector, and Brad Loveland (right), Erosion Control Inspector. Martine Vaca is also an Erosion Control Inspector (not pictured).

Cornelius, Davidson, Huntersville, Matthews, Mint Hill and Pineville.

The Erosion Control Team is part of the Mecklenburg County Water Quality Program and works closely with plan reviewers and land development inspectors in the Land Development Department to achieve the success of their program. The greatest accomplishment has been the annual Soil Erosion and Sedimentation Control Workshop, which was developed to include a new certification program. The program is offered twice per year. The Charlotte-Mecklenburg Certified Site Inspector (CMCSI) certification includes a training course and exam.

Upon satisfactorily passing the exam, participants receive a 2-year inspection certification to do competent self-inspections. Mecklenburg County continues to heighten awareness of the water quality impacts of land-disturbing activities as well as promote work efficiency with some of the latest technology. You may view their web site at: <http://www.co.mecklenburg.nc.us/Departments/LUESA/>, then click on Water and Land Resources for more information.

You are encouraged to nominate deserving local programs for this award for next year. Request for nominations will be available this fall. Contact Janet Paith at (919) 733-4574 or janet.paith@ncmail.net for more information.

Construction Sites Still Subject to NPDES Phase II Stormwater Requirements

The well publicized delay of permanent NPDES Stormwater Phase II rules for local government programs does not affect the requirement for construction sites larger than one acre to be covered by North Carolina's NPDES Stormwater Discharge General Permit for Construction Activities. The requirements for construction sites larger than one became effective March 2003.

The general permit for construction activities requires compliance with an approved Erosion and Sedimentation Control Plan and additional housekeeping, waste management, inspection, and record keeping requirements. See the Oct-Dec 2002 issue of Sediments for more detail on the requirements: http://www.dlr.enr.state.nc.us/newsletter/2002_vol09_no4_octnovdec_sediments.pdf.

Text of the general permit for construction activities along with the stormwater inspection log, and the list of 303 (d) listed streams for construction related parameters can be found at website: http://h2o.enr.state.nc.us/su/NPDES_SWGP_Construction_NCG01.htm. Erosion and sediment control facilities discharging to streams on the state's 303(d) list of impaired streams must be inspected on a more frequent basis than those discharging to non-impaired streams.

Status of rules for local governments

North Carolina's rules laying out how local governments should implement the federally required NPDES Stormwater Phase II program are in legal limbo. The permanent rules were rejected by the N.C. Rules Review Commission in January and are now the subject of a legal challenge by the N.C. Environmental Management Commission. The legal battle has been joined by environmental groups and will probably take months to resolve. However, local governments that must comply with the federal Phase II stormwater requirements and have not yet filed permit applications can be covered under an NPDES Phase II general permit for local governments now under development by the N.C. Division of Water Quality (DWQ). By applying for coverage under the general permit, affected local governments can shield themselves from third party suits that could be filed under the Clean Water Act for noncompliance with the federal stormwater rules. DWQ is also developing a general permit that will provide developers coverage for compliance with post-construction stormwater control requirements of the NPDES Stormwater program.

Information on the new general permit for local governments will be available on DWQ's Stormwater and General Permits Unit website at http://h2o.enr.state.nc.us/su/Phase_2_Information_Page.htm.

CPESC Certification

Ms. Kristi Anspach has been teaching a course in sediment and erosion control at Alamance Community College, in conjunction with David Ward of CPESC, Inc. She has made us aware of the upcoming CPESC certification.

A Certified Professional in Erosion and Sediment Control (CPESC) has educational training, demonstrated expertise, and experience in controlling erosion and sedimentation. The certification program is administered by CPESC, Inc. and is sponsored by the Soil and Water Conservation Society and the International Erosion Control Association, which provides the public with evidence of professional qualifications.

Before taking the exam you must fill out the CPESC application which has three parts: the application, your professional experience and professional references. The application fee must be submitted with your completed application to CPESC, Inc. You may contact CPESC, Inc. by calling 828-756-4484, email info@cpesc.net or visit <http://www.cpesc.net/> for the CPESC application.

CPESC Exam Prep Course: 8:00 a.m. to 5:00 p.m.
Monday, May 11, 2004

The 8-hour exam prep course will provide an overview of the study handbook available through CPESC, Inc. This course will be taught by CPESC certified instructors and will aid students in preparing for the exam. The registration fee is \$99.00 for course and materials. To register for this course, please call (336) 506-4219.

CPESC Exam: 8:00 a.m. to 3:00 p.m.
Tuesday, May 12, 2004

Location for Course and Exam:

Alamance Community College
1247 Jimmie Kerr Road
Graham, NC 27253
ACC is located just South of I-85/40 at Exit 150.

What is a CPSWQ?

A Certified Professional in Storm Water Quality (CPSWQ) has educational training, demonstrated expertise, and experience in computing, analyzing, and evaluating storm water quality. You can find information about the CPSWQ certification at <http://www.cpesc.net/>.

Sediment and Erosion Control Course

Latest Information with Hands-on Demonstrations

May 7, 2004

Sediment & Erosion Control Research & Education Facility Raleigh, North Carolina

The private environmental and conservation organizations in North Carolina have recently focused their attention on sediment and erosion control at construction sites, often in the form of complaints and lawsuits. If you are a property owner, developer, designer, landscape architect, contractor, site foreman, or in environmental code enforcement, you need to know about technologies that will make your effort more effective, timely and less costly. This one-day workshop will provide you with the latest in technology. The field demonstrations will bring you together with experts in the field as well as vendors of products and services, so that you will see the latest techniques in a realistic setting.

Topics are:

- How to improve sediment control without breaking the bank.
- Evaluations of many of the new devices and systems for sediment control.
- Overview of permeable pavement and stream restoration systems.
- Opportunities to interact with colleagues, regulators, and researchers.
- The experience of viewing live, "real-life" sediment and turbidity control in the field.

To find agenda and registration information go to the web site:

<http://www.soil.ncsu.edu/swetc/sediment2/main2.htm>

or contact Kathryn Murray at 919-515-7154 or soils_training@ncsu.edu.

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