North Carolina State University is a land-grant university and a constituent institution of the University of North Carolina

NCSU Water Quality Group
Department of Biological and Agricultural Engineering
College of Agricultural and Life Sciences

NC STATE UNIVERSITY

Campus Box 7637
Raleigh, North Carolina 27695-7637
919.515.3723 (phone)
919.515.7448 (fax)

PROPOSAL

to:

NORTH CAROLINA SEDIMENTATION CONTROL COMMISSION

And

NC DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES – LAND QUALITY SECTION

for the project

Sediments Newsletter, FY 07-08

submitted by:

Principal Investigators:

Jean Spooner, PhD, Biological & Agricultural Engineering Dept.
Cathy Smith, Biological & Agricultural Engineering Dept.
Rich McLaughlin, PhD, Soil Science Dept.
Dan Line, PE, Biological & Agricultural Engineering Dept.

NCSU Water Quality Group
Soil and Water Environmental Technology Center (SWETC)
Department of Biological and Agricultural Engineering
North Carolina State University
Box 7637
Raleigh, NC 27695-7637
(919) 515-3723

Date Submitted: April 13, 2007

Project Period: July 1, 2007 – June 30, 2008

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Scope of Work – Production and Distribution of *Sediments* Newsletter	
Table of Contents	
Introduction	Request funds to continue the publication and distribution of the *Sediments* newsletter in order to provide information to the regulated community and to facilitate communication among local erosion and sediment control programs.
Background	The Sedimentation Control Commission is charged to educate the regulated and design community, as well as the public, on recommended methods, regulations, current events, and instructional topics regarding erosion and sedimentation control. The Sediments newsletter is one aspect of such education and has been published quarterly since 1994. Current subscribers number approximately 5400 individuals.
Scope of Work	
1. Tasks provided	• **Publication and Distribution of *Sediments* Newsletter**. Approximately 5500 printed copies will be available for distribution to subscribers. Newsletters will be addressed and mailed. • The database of subscribers for both print and email will be updated and maintained in MS Access (exportable to Excel upon request). • A PDF will be provided to the Land Quality Section (LQS) web site: http://www.dlr.enr.state.nc.us/pages/sedimentationnewsletters.html. • If preferred, we will host the pdf files on the NCSU web server and provide a link to LQS. • Online subscribers will be notified by email when newsletters are posted. • **Design Revisions of *Sediments* Newsletter**. Revisions to *Sediments* Newsletters should be minimal. We will utilize the template previously developed by Soil Science. If revisions are desired by LQS, we will be able to incorporate them. Design revisions will be

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	made under the supervision and approval of Land Quality Section. Any revisions in the paper design will also be reflected in *Sediments* online. • **Content of *Sediments* Newsletter**. All articles and content will be edited by the NCSU staff and reviewed for approval by the Land Quality Section. Identify experts who will assist in authoring technical articles. Authors will be recruited and identified in conjunction with LQS from NCSU, other universities, state and local agencies, non-profit associations, and the private sector. An NCSU staff member (and subject matter expert) will attend the annual meetings of the International Erosion Control Association and the American Society of Biological and Agricultural Engineers and report on those conference events in *Sediments*. Topic ideas will be solicited from the SCC, Land Quality Section, and NCSU faculty. Subscribers will be able to offer their preferences and most critical needs by responding to brief surveys either online or by email. Each newsletter will also feature a summary of the actions taken by the NC Sedimentation Control Commission. • **Web availability of *Sediments* Newsletter.** A HTML template of *Sediments* has been created by the Soil Science Dept. This template will be utilized and will be hosted on the NCSU Biological & Agricultural Engineering Department server and linked from the Land Quality Section webpage.We will provide a PDF version of the newsletter, complete with active links. Its design will be consistent with the SCC and Land Quality Section. All maintenance, updates, and corrections will be done by contractor. • **Subscriber Communication and Recruitment.** *Sediments* online will be templated and distributed through a List Service. Current subscribers will be encouraged to make the switch to online newsletters. An email broadcast will be sent offering the switch, as well as an announcement in the paper newsletter. *Sediments* will be actively promoted by email broadcasts to lists other than current subscribers.
2. Time line for completion	Fiscal year 2007-2008 Four issues to be published during the fiscal year. Each issue will be published approximately 4 weeks after the quarterly meeting of the Sedimentation Control Commission meeting scheduled for Aug. 16 and Nov. 15, 2007, and Feb., May 2008.

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	Approximate press-ready and PDF newsletter completion dates: Sept. 13, 2007 Dec. 13, 2007 March 2008 June 2008
3. Deliverables	- ~~Three~~ Four six-page (minimum) issues on the above schedule per fiscal year - Newsletter specifics: • Size: 8-1/2" x 11" • Number of pages: 6 • Paper: Paper and Color to be determined with approval of LQS. • The newsletter is to be printed from disk output from desktop publishing system (Adobe InDesign for Windows, or an Adobe PDF file). -PDF version of newsletter sent to subscribers of *Sediments* electronic list -Online HTML version of *Sediments* newsletter hosted on NCSU Biological & Agricultural Engineering Dept. server -PDF version of newsletter to be stored on Land Quality Section past issues archive
4. Milestones	-Topics for technical articles to be suggested by NCSU to LQS for approval and input six weeks prior to print time - SCC meeting is attended to take notes 4 weeks prior to print time -Draft newsletter in desktop published format sent to Land Quality Section staff for review 2.5 weeks prior to print time -Land Quality Section submits requested changes 2-3 business days prior to print time -Be available for periodic questions and answers via phone or email -Each completed newsletter should be submitted to DLR-Land Quality Section for approval. The newsletters must be approved before final printing. -Since desktop publishing will be provided by Cathy Smith, changes can be made anytime up to print time
5. Environmental/Regulatory Constraints	N/A
6. Contract time period	-The project must be completed between the projected contract dates of July 1, 2007 and June 30, 2008. -Each newsletter should be completed approximately 4 weeks after the quarterly SCC meeting.

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Payment Schedule	Bill payment upon submission as approved by contract administrator.
Ownership of Equipment	N/A
Project Budget	**Project Budget** Salary and Fringe……$20,000 Travel……...$ 3,000 Printing ……..…….$ 6,000 Postage (standard mail) …….$ 6,000 Total Direct…….$35,000 Indirect Cost……$ 5,250 Total……$ ~~49~~40,250 **<u>Budget Details</u>** Salary and Fringe: Spooner, Smith, McLaughlin, Line and Extension Associate including 25% benefits. Travel: Interviewing costs, conference cost Printing and Distribution: Printing, bulk mail and address, postage Indirect Cost: 15% of Total Direct Cost
Principal Investigator Contacts	Jean Spooner, Extension Specialist, BAE Dept., NCSU 919-515-8240; Cathy Smith, Extension Assistant, BAE, NCSU (919-515-3723
DENR Contract Administrator	Ashley Rodgers, Sediment Education Specialist 919-733-4574

Key Personnel

Jean Spooner, Professor, Director, Soil & Water Environmental Technology Center (SWETC**),** NCSU Water Quality Group, Professor, Water Quality Extension Specialist, Department of Biological and Agricultural Engineering, NC State University. Dr. Spooner is a Soil Scientist and Applied Statistician who has worked with the NCSU Water Quality Group since 1984. She performs statistical analyses to evaluate changes in water quality associated with nonpoint source (NPS) pollution controls, and provides technical assistance to NPS projects on water quality and land treatment monitoring designs and data analysis. Dr. Spooner provides technical assistance to U.S. EPA Section 319 grant recipients under the U.S. EPA National Monitoring Program, state nonpoint source control programs, and water quality projects nationwide on water quality and land treatment monitoring designs and data analysis; she reviews state NPS control project plans and achievements. She has evaluated water quality and operation and maintenance data form innovative and alternative wastewater sites. Dr. Spooner has authored numerous papers on RCWP, lessons learned about NPS control strategies, NPS literature reviews, monitoring techniques, and data analysis. Dr. Spooner holds a Ph.D. in Soil Science (minor in Statistics) from North Carolina State University, a M.S. in Soil Science (minor in Statistics) from North Carolina State University, a M.S. in Applied Statistics from Utah State University, and a B.S. in Agronomy from Cornell University.

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Catherine Smith, Extension Assistant, Department of Biological and Agricultural Engineering, North Carolina State University. She has expertise in web development, desktop publishing, editing, database management, and conference and workshop/tour coordination. Ms. Smith holds a BA in Communication from N.C. State University.

Richard A. McLaughlin, Ph.D. grew up in Maryland and received his B.S. in Forest Management at Virginia Tech in 1979. He continued his education at Purdue University, studying the fate of nitrogen in the environment. After receiving his Ph.D. in 1985, he spent several years doing postdoctoral research on pesticide fate in the environment, both at Purdue and North Carolina State University. Dr. McLaughlin then worked for a major crop protection company for five years in both environmental fate and analytical chemistry areas. He has been an Associate Professor and Extension Specialist in the Soil Science Department since 1993. Current projects include the use of buffers of various types to reduce sediment, nutrients, and pesticides in runoff, environmental fate of nutrients and pesticides in turf, predicting ground water vulnerability to pesticides, and optimizing sediment control systems.

Daniel E. Line, Water Quality Extension Specialist, Department of Biological and Agricultural Engineering, North Carolina State University. Mr. Line is an Agricultural Engineer with expertise in water quality modeling, cropland erosion and sedimentation research, conservation practices, watershed assessment, geographic information systems (GIS), and water quality monitoring. Mr. Line is a P.E. and holds M.S. and B.S. degrees in Agricultural Engineering from The Pennsylvania State University.

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