

## Land Quality Update

Erosion and Sediment Control Workshop for Designers,  
Contractors and Developers

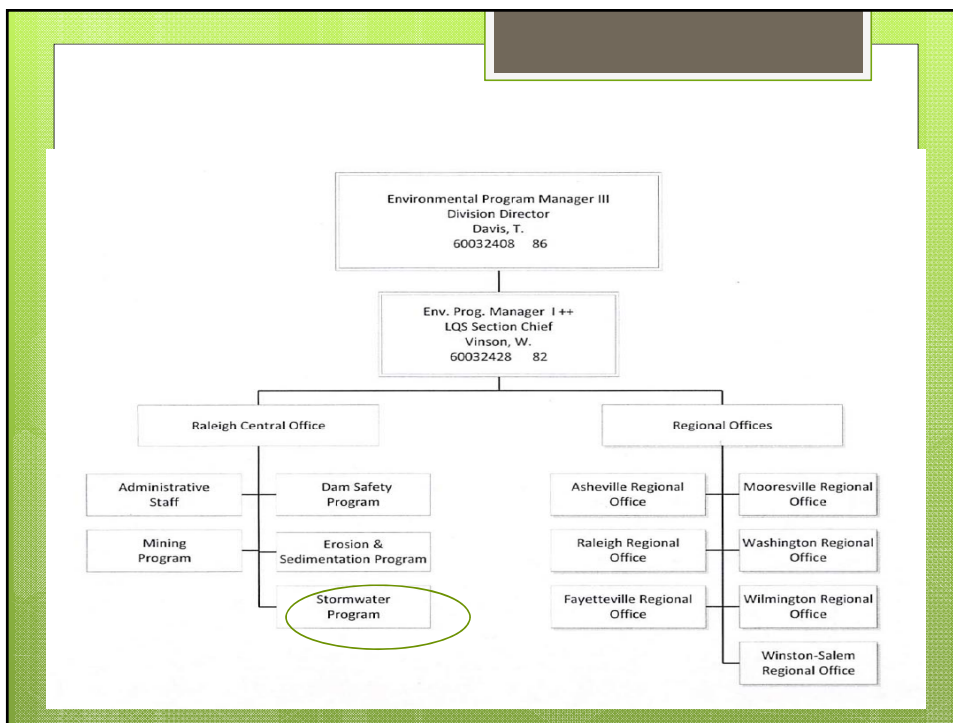
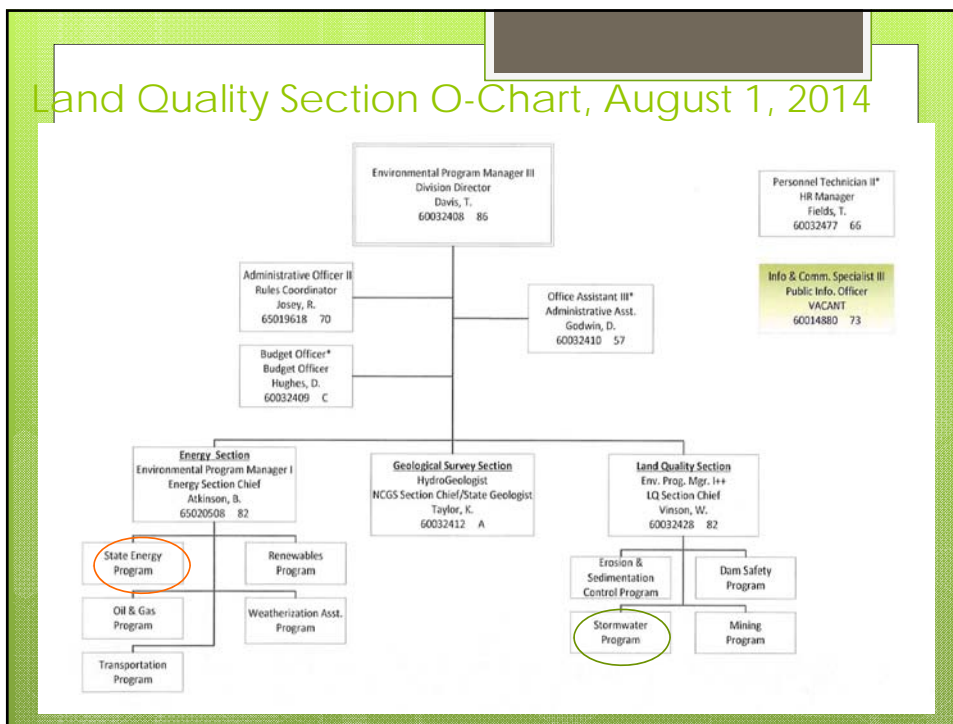
April 14, 2015

W.E. Toby Vinson, PE, CPESC

## Topics

- DEMLR Reorganization, Program Integration and Enforcement
- Energy Program
- Customer Service Activities
- Regulatory Updates

## Land Quality Section O-Chart, August 1, 2014





## Integration of Stormwater Program w/ Land Quality

- Reg. Offices, 21 FTEs, Cent. Office 9 FTEs
- Cross-Training into existing programs
  - Sediment Program
  - Mining Program
- "Fast-Track Permitting"
  - Minimum Design Criteria
  - Technical Working Group
  - Rules by July 2016
  - Includes State and locally delegated state programs (permits w/out review of devices)???

## Combined Inspections

- With E&SC Program
- Enforcement with E&SC Program
- With Mining Program - will begin Formal Industrial NPDES Cross-Training in 2015

# Combined Self-Inspection Form

DEMRLR Monitoring Form Rev. 08012013 Page 1 of 2  
**INSPECTION AND MONITORING RECORDS FOR ACTIVITIES UNDER STORMWATER GENERAL PERMIT NCGG10000 AND SELF-INSPECTION RECORDS FOR LAND DISTURBING ACTIVITIES PER G.S. 113A-54.1**

Project Name		Land Quality or Local Program Project #	
Financially Responsible Party, (FRP) / Permittee		County	
INSPECTOR		Name	Employer
Inspector Type (Mark) X	Address		
FRP/Permittee	Phone Number	Email Address	
Agent/Designee			

**PART 1A: Rainfall Data**

Day / Date	Rain Amt (inches) Daily Rainfall Required, except for Holidays or Weekends. If no rain, indicate with a "zero"
M	
T	
W	
Th	
F	
Sat (Optional)	
Sun (Optional)	

**PART 1B: Current Phase of Project**

Phase of Grading check the applicable box(es)	X
Installation of perimeter erosion and sediment control measures	
Clearing and grubbing of existing ground cover	
Completion of any phase of grading of slopes or fills	
Installation of storm drainage facilities	
Completion of all land-disturbing activity, construction or development	
Permanent ground cover sufficient to restrain erosion has been established	

**PART 1C: Signature of Inspector**

By this signature, I certify in accordance with the NCGG10000 permit & G.S. 113A-54.1 that this report is accurate and complete to the best of my knowledge.

Financially Responsible Party / Permittee or Agent / Designee	Date
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**GROUND STABILIZATION TIMEFRAMES**

Site Area Description	Stabilization	Timeframe Exceptions
Perimeter dikes, swales and slopes	7 Days	None
High Quality Water (HQW) Zones	7 Days	None
Slopes Steeper than 3:1	7 Days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
Slopes 3:1 or flatter	14 Days	7 days for slopes greater than 50' in length
All other areas with slopes flatter than 4:1	14 Days	None, except for perimeters and HQW Zones

\*For an editable copy of this form as a Word doc and other information, see <http://portal.ncdenr.org/web/3/erosion>

# Combined Self-Inspection Form

DEMRLR Monitoring Form Rev. 08012013 Page 2 of 2

**PART 2A: EROSION AND SEDIMENTATION CONTROL MEASURES:** Measures must be inspected at least ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT GREATER THAN 0.5 INCH PER 24 HOUR PERIOD.

**Erosion and Sedimentation Control Measures Inspected**

Measure ID or Location and Description	Operating Properly? (Y/N)	Any Repair or Maintenance Needed? (Y/N)	New Measures Installed *			Inspection Date	Describe Actions Needed Corrective actions should be performed as soon as possible and before the next storm event	Date Corrected
			Proposed Dimensions (ft.)	Actual Dimensions (ft.)	Significant Deviation from Plan? (Y/N)			

\*New erosion and sedimentation control measures installed since the last inspection should be documented here or by initialing and dating each measure or practice shown on a copy of the approved erosion and sedimentation control plan. List Dimensions of Measures such as Sediment Basins and Riprap Aprons

**PART 2B: STORMWATER DISCHARGE OUTFALLS (SDOs):** SDOs must be inspected at least ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT GREATER THAN 0.5 INCH PER 24 HOUR PERIOD.

**Stormwater Discharge Outfalls Inspected**

Stormwater Discharge Outfall ID or Location	Any Visible Sedimentation in Streams, Wetlands or Outside Site Limits? (Y/N)	Any Increase in Stream Turbidity from Discharge? (Y/N)	Any Visible Erosion below SDO? (Y/N)	Any visible oil sheen, floating or suspended solids or discoloration? (Y/N)	Inspection Date	Report Visible Sedimentation to streams or wetlands to Land Quality within 24 Hours <a href="http://portal.ncdenr.org/web/3/division-contacts">http://portal.ncdenr.org/web/3/division-contacts</a> Describe Actions Needed Corrective actions should be performed as soon as possible and before the next storm event	Date Corrected

**PART 2C: GROUND STABILIZATION** Must be recorded after each Phase of Grading

Areas Where Land Disturbance Has Been Completed or Temporarily Stopped	Time Limit for Ground Cover 7 days or 14 days	Is Ground Cover Sufficient to Restrain Erosion? (Y/N)	Inspection Date	Describe Actions Needed	Date Corrected

# Combined ESC/CSW Inspection Report

### SEDIMENTATION/CONSTRUCTION STORMWATER INSPECTION REPORT

North Carolina Department of Environment and Natural Resources  
Land Quality Section: 1500 Barrett Drive, Raleigh, NC 27605, Phone: (919) 791-4200

County: \_\_\_\_\_ Project: \_\_\_\_\_ River basin: \_\_\_\_\_

Person financially responsible: \_\_\_\_\_ Project # \_\_\_\_\_  
Address: \_\_\_\_\_ City # \_\_\_\_\_

1. Project location:  
 Paved: No  Yes  Video  Digital

2. Weather and soil conditions:  
 First inspection: Yes  No

3. Is site currently under active construction? Yes  No

4. Is the site in compliance with S.F.C.A. and rules? Yes  No  If not, check violations below:

Violations:

a. No approved plan, G.S. 113A-57 (4) and 15A NCAC 4B-0107(i)

b. Failure to follow approved plan, G.S. 113A-57(3)

c. Failure to submit erosion plan, G.S. 113A-54(20) and 15A NCAC 4B-0116(a)

d. Failure to provide adequate protection, G.S. 113A-57(3); 15A NCAC 4B-0107(b) or 15A NCAC 4B-0124(a)

e. Insufficient measures to retain sediment on site, G.S. 113A-57(3)

f. Failure to take all reasonable measures, 15A NCAC 4B-0105

g. Inadequate buffer zone, G.S. 113A-57(1)

h. Graded slopes and fill too steep, G.S. 113A-57(2) or 15A NCAC 4B-0124(b)

i. Unprotected exposed slopes, G.S. 113A-57(2)

j. Failure to maintain measures, 15A NCAC 4B-0113

k. Failure to self-report, G.S. 113A-54 (4) and 15A NCAC 4B-0111

l. Other describe: \_\_\_\_\_

5. Is the site in compliance with NPDES's Permit NCG 010000? Yes  No  Not Applicable  If not, check violations below:

m. Failure to manage construction site pollution, NCG 010000 Sec. II, B.1

n. Failure to provide general stabilization, NCG 010000 Sec. II, B.2

o. Failure to maintain site groups or needed daily rainfall, NCG 010000 Sec. II, B.3(a)

p. Failure to meet self-inspection and reporting requirements, NCG 010000 Sec. II, B.3(a)

q. Failure to demarcate sediment basin from surface, NCG 010000 Sec. II, B.4

r. Failure to have approved plan and NPDES permit on site, NCG 010000 Sec. II, 3(a)

s. Failure to install and maintain BMP's, NCG 010000 Sec. II, 4

t. Failure to operate and maintain control facilities, NCG 010000 Sec. IV, 1

u. Failure to install and maintain control facilities, NCG 010000 Sec. IV, 2

v. Other describe: \_\_\_\_\_

7. Has sedimentation damage occurred?  Have best inspection  at 1" inspection? Yes  No, when? (check all that apply) No

1. Take natural sediment on the tract  2. Take natural sediment off the tract  3. Other property?

Description: \_\_\_\_\_

Sedimentation Discharge Outfall with high turbidity or sediment load: \_\_\_\_\_

Degree of damage: slight  moderate  severe

8. Corrective action with (insert): \_\_\_\_\_ Title: \_\_\_\_\_

Inspection report given:  or sent  to person financially responsible. Date given/sent: \_\_\_\_\_

9. Corrective actions needed: \_\_\_\_\_

Report by: \_\_\_\_\_ Others present: \_\_\_\_\_

Date of inspection: \_\_\_\_\_ Time arriving on site: \_\_\_\_\_ Time leaving site: \_\_\_\_\_

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### SEDIMENTATION/CONSTRUCTION STORMWATER INSPECTION REPORT

North Carolina Department of Environment and Natural Resources  
Land Quality Section: 1500 Barrett Drive, Raleigh, NC 27605, Phone: (919) 791-4200

9. Corrective actions needed (continued)

Submit an adequate sedimentation and erosion control plan for approval, covering all areas disturbed or to be disturbed.

Install all sedimentation and erosion control measures as shown on the approved plan.

Submit a revised sedimentation and erosion control plan for approval for the following areas: \_\_\_\_\_

Provide adequate permanent ground cover on all areas where development has been completed according to the best limits in the approved plan, including the following areas: \_\_\_\_\_

Install erosion and sediment control devices sufficient to retain sediment on the tract at the following areas: \_\_\_\_\_

Install sediment sediment traps or basins and associated diversions as shown on the approved plan, including the following locations: \_\_\_\_\_

Install adequate drop siltation protection as shown on the approved plan, including the following locations: \_\_\_\_\_

Provide an adequate stream buffer zone of sufficient width to reduce visible sedimentation within the 25 % of the buffer across the land disturbance using natural or artificial means (minimum 25-foot width in Trout Waters) including the following areas: \_\_\_\_\_

Follow the angle of graded slopes to an angle on which vegetative ground cover may be established including the following locations: \_\_\_\_\_

For disturbed areas less than one acre, provide adequate temporary or permanent erosion cover on all eroded areas, when earth or fine grading has been completed for 21 calendar days, including the following locations: \_\_\_\_\_

Maximize all sedimentation and erosion control measures as specified in the approved plan and as required to prevent sedimentation damage, including the following locations: \_\_\_\_\_

Properly locate concrete to avoid contact with surface water, wetlands or buffers and prevent discharge from site.

Retain soil on slopes at least 10 feet away from stream drain tubes or surface water.

Provide adequate temporary or permanent ground cover on areas where land-disturbing activity has ceased in 7 or 14 days according to NCG 010000 permit conditions at the following areas: \_\_\_\_\_

Provide sediment basins with a drainage area of one acre or greater with a dikebank or dikeboard riser.

Inspect all erosion and sedimentation control measures and stream discharge outfalls at least weekly and within 24 hours of a rainfall event of 1/8 inch or greater and complete self-monitoring reports.

Maximize a rain gauge in good working order and record daily rainfall amounts.

10. Comments: \_\_\_\_\_

\_\_\_\_\_

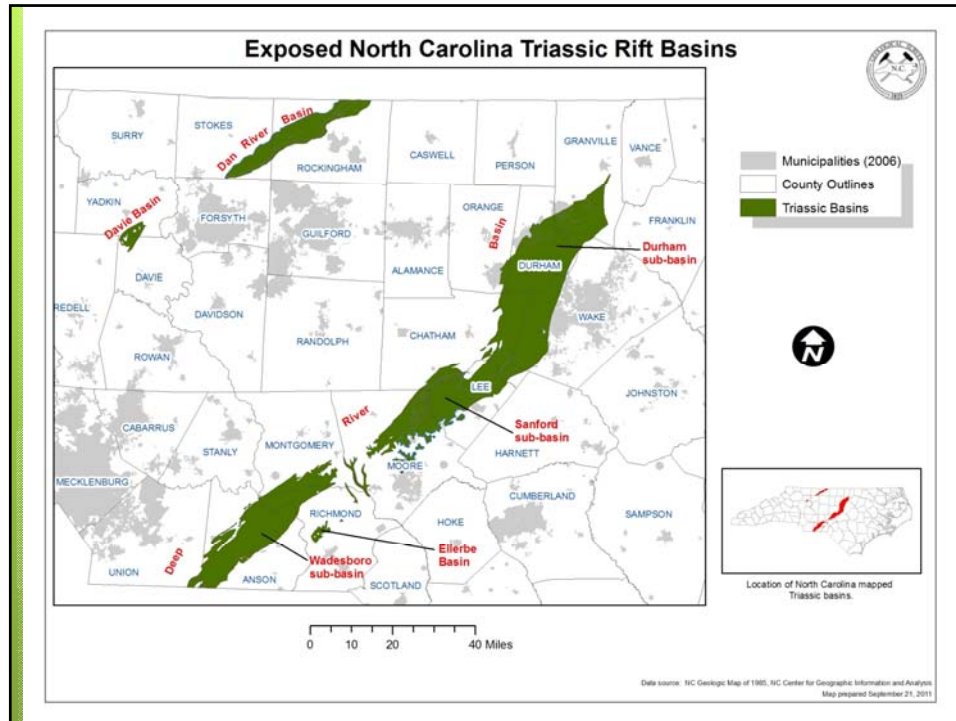
\_\_\_\_\_

Permitting ground cover sufficient to restrict erosion has been established. No additional self-monitoring or self-inspections are required. Project to reduced and coverage under NPDES's General Intermittent Permit for Construction Activities is maintained.

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## Energy Program

- Oil and Gas Program
- State Energy Program
- Weatherization Program



## Oil and Gas Development

- Coordinated Permitting for Single Environmental Permit (O&G program has been delegated an E&SC program to review plans and perform inspections)
- Site Development (Fees, Impact Fees)
- Bonding
- Production (Severance Taxes)
- Reclamation
- Stormwater Review

## Mining and Energy Commission

- O & G rules have been passed through to RRC and Legislature
- Restructured to be two separate Commissions on August 1, 2015
  - Energy Commission
  - Mining Commission

## Customer Service Activities

- Workshops – 2 in Spring (March 10 and April TBA); 2 in Fall (Dates TBA)
- Informal Appeal Processes from Regulatory Reform Legislation (Req'd for State and Local Governments)
  - 1 – For new technologies, (to staff PE)
  - 2 – For Statute or Rule Reference, (to Supervisor)
- Electronic Permitting and Inspections (AMANDA/ECLIPS)



## Electronic Permitting and Inspections

- AMANDA – ECLIPS
  - Back Office – June 2014
  - Portal – March thru April 2015
  - Mobile Inspections (Pilot) – August 2014
  - Mobile Inspections Statewide – March thru April 2015

## Regulatory Updates

- Review State Environmental Rules –
  - Stormwater – 2014-15
  - Sediment – 2015-16
  - Mining – 2016
  - Dam Safety - 2017
- Gravel –
- Informal Appeal Processes
  - 1 – For new technologies, (to staff PE)
  - 2 – For Statute or Rule Reference, (to Supervisor)

## More Regulatory Updates

- Built Upon Area
- MOA to all Local Programs – O & G
- Pilot Stormwater Program report on Practice of Engineering
- Coal Ash Management Act (CAMA) – expedited permitting process with public hearings

Questions???

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