

Land Quality Update

Local Program Workshop

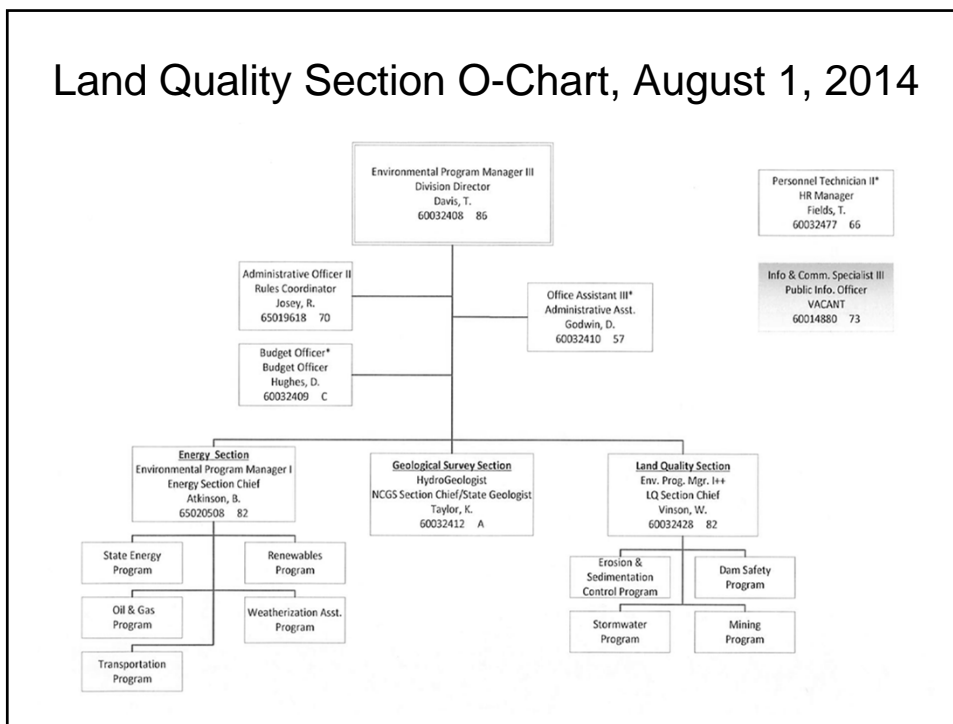
February 11-12, 2015

W.E. Toby Vinson, PE, CPESC

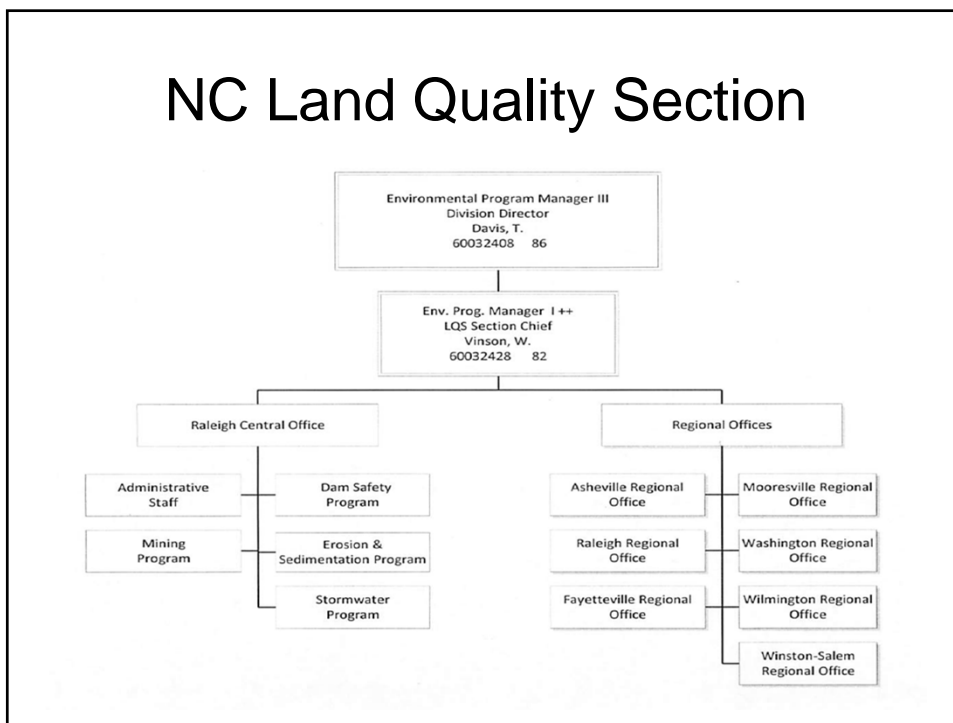
Topics

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

Land Quality Section O-Chart, August 1, 2014



NC Land Quality Section



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

DEMLR Monitoring Form Rev. 08/01/2013 Page 1 of 2
 INSPECTION AND MONITORING RECORDS FOR ACTIVITIES UNDER STORMWATER GENERAL PERMIT NCG010000
 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 NCG010000 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
---	------

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.ncdemr.org/web/ir/erosion>

Combined Self-Inspection Form

DEMLR Monitoring Form Rev. 08/01/2013 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 http://portal.ncdemr.org/web/ir/division-contacts 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

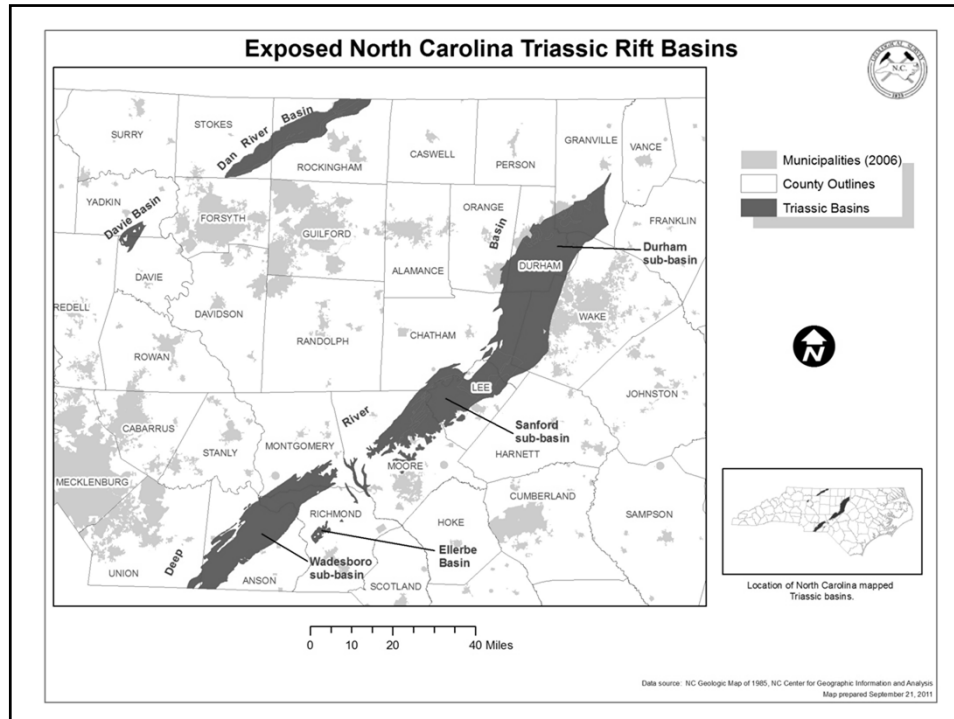
Areas Where Land Disturbance Has Been Completed or Temporarily Stopped	Time Limit for Ground Cover 7 days or 14 days	Is Ground Cover Sufficient to Restrain Erosion? (Y/N)	Inspection Date	Describe Actions Needed	Date Corrected

Combined ESC/CSW Inspection Report

SEDIMENTATION/CONSTRUCTION STORMWATER INSPECTION REPORT	SEDIMENTATION/CONSTRUCTION STORMWATER INSPECTION REPORT
<small>North Carolina Department of Environment and Natural Resources Land Quality Section: 1100 Barrett Drive, Raleigh, NC 27609, Phone: (919) 791-4200</small>	
County: _____ Project: _____ River basin: _____ Person financially responsible: _____ Project # _____ Address: _____ Case # _____	
1. Project location: Permit No. <input type="checkbox"/> Yes <input type="checkbox"/> Video <input type="checkbox"/> Digital <input type="checkbox"/>	
2. Weather and soil conditions: _____ First inspection: Yes <input type="checkbox"/> No <input type="checkbox"/>	
3. Is site currently under notice of violation? Yes <input type="checkbox"/> No <input type="checkbox"/>	
4. Is the site in compliance with S.P.C.A. and rules? Yes <input type="checkbox"/> No <input type="checkbox"/> If no, check violations below:	
Violations: <input type="checkbox"/> a. No approved plan, G.S. 113A-57 (4) and 15A NCAC 4B 0107(c) <input type="checkbox"/> b. Failure to follow approved plan, G.S. 113A-57(3) <input type="checkbox"/> c. Failure to submit erosion plan, G.S. 113A-54 (3) and 15A NCAC 4B 0118(a) <input type="checkbox"/> d. Failure to provide adequate groundcover, G.S. 113A-57(3); 15A NCAC 4B 0107(b) or 15A NCAC 4B 0134(a) <input type="checkbox"/> e. Inefficient measures to retain sediment on site, G.S. 113A-57(3) <input type="checkbox"/> f. Failure to take all reasonable measures, 15A NCAC 4B 0105	<input type="checkbox"/> g. Inadequate buffer zone, G.S. 113A-57(1) <input type="checkbox"/> h. Graded slopes and ERI too steep, G.S. 113A-57(2) or 15A NCAC 4B 0124(d) <input type="checkbox"/> i. Unprotected exposed slopes, G.S. 113A-57(2) <input type="checkbox"/> j. Failure to maintain measures, 15A NCAC 4B 0115 <input type="checkbox"/> k. Failure to self-inspect, G.S. 113A-54 (4) and 15A NCAC 4B 0131
<input type="checkbox"/> m. Failure to manage construction site pollution, NCG 010000 Sec. II, B.1 <input type="checkbox"/> n. Failure to provide ground stabilization, NCG 010000 Sec. II, B.2 <input type="checkbox"/> o. Failure to maintain site prep or record daily rainfall, NCG 010000 Sec. II, B.3(a) <input type="checkbox"/> p. Failure to meet self-inspection and reporting requirements, NCG 010000 Sec. II, B.3(c) <input type="checkbox"/> q. Failure to demarcate sediment basin from surface, NCG 010000 Sec. II, B.4	<input type="checkbox"/> l. Other describe: _____ <input type="checkbox"/> r. Not Applicable <input type="checkbox"/> If yes, check violations below: <input type="checkbox"/> s. Failure to have approved plan and NPDES permit on site, NCG 010000 Sec. III, 3(a) <input type="checkbox"/> t. Failure to install and maintain BMP's, NCG 010000 Sec. III, 4 <input type="checkbox"/> u. Failure to operate and maintain control measures, NCG 010000 Sec. IV, 1 <input type="checkbox"/> v. Bypass of measure control facilities, NCG 010000 Sec. IV, 3 <input type="checkbox"/> w. Other describe: _____
7. Has sedimentation damage occurred? <input type="checkbox"/> above last inspection <input type="checkbox"/> at 1 st inspection? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, where? (check all that apply) No <input type="checkbox"/> Like natural watercourse on the tract? <input type="checkbox"/> Like natural watercourse off the tract? <input type="checkbox"/> Other property? <input type="checkbox"/>	
Description: _____ Stormwater Discharge Outfall with high turbidity or sediment loss: _____ Degree of damage: slight <input type="checkbox"/> moderate <input type="checkbox"/> severe <input type="checkbox"/>	
8. Contact made with (name): _____ Title: _____ Inspection report given <input type="checkbox"/> or sent <input type="checkbox"/> to person financially responsible. Date given/sent: _____	
9. Corrective action needed: _____ _____ _____	9. Corrective action needed (continued) <input type="checkbox"/> Submit an adequate sedimentation and erosion control plan for approval, covering all areas disturbed or to be disturbed. <input type="checkbox"/> Install all sedimentation and erosion control measures as shown on the approved plan. <input type="checkbox"/> Submit a revised sedimentation and erosion control plan for approval for the following areas: _____ <input type="checkbox"/> Provide adequate permanent ground cover on all areas where development has been completed according to the time limit in the approved plan, including the following areas: _____ <input type="checkbox"/> Install erosion and sediment control devices sufficient to retain sediment on the tract at the following areas: _____ <input type="checkbox"/> Install temporary sediment traps or basins and associated diversions as shown on the approved plan, including the following locations: _____ <input type="checkbox"/> Install adequate drop inlet protection as shown on the approved plan, including the following locations: _____ <input type="checkbox"/> Provide an adequate stream buffer zone of sufficient width to confine 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: _____ <input type="checkbox"/> Establish the angle of graded slopes to an angle on which vegetative ground cover may be established including the following locations: _____ <input type="checkbox"/> For disturbed areas less than one acre, provide adequate temporary or permanent ground cover on all eroded slopes where smooth or fine grading has been completed for 21 calendar days, including the following locations: _____ <input type="checkbox"/> Maintain all sedimentation and erosion control measures as specified in the approved plan and as required to prevent sedimentation damage, including the following locations: _____ <input type="checkbox"/> Properly locate concrete to avoid contact with surface waters, wetlands or buffers and prevent discharge from site. <input type="checkbox"/> Exclude soil on slopes at least 10 feet away from stream drain inlets or surface waters. <input type="checkbox"/> 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: _____ <input type="checkbox"/> Provide sediment basins with a drainage area of one acre or greater with a skimmer or fishboard riser. <input type="checkbox"/> Inspect all erosion and sedimentation control measures and storm discharge outfalls at least weekly and within 24 hours of a rainfall event of 1/8 inch or greater and complete self-monitoring reports. <input type="checkbox"/> Maintain a rain gauge in good working order and record daily rainfall amounts.
10. Comments: _____ _____ _____	<input type="checkbox"/> Permanent ground cover sufficient to restrict erosion has been established. No additional self-monitoring or self-inspections are required. Project is reduced and coverage under NPDES General Stormwater Permit for Construction Activities is terminated.
Report by: _____ Other present: _____ Date of inspection: _____ Time arriving on site: _____ Time leaving site: _____	
<small>Revision Date 09/09/2013 Page 1 of 2</small>	<small>Revision Date 09/09/2013 Page 2 of 2</small>

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

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 Fall (November 19 and December 2); 2 in Spring (Dates TBA)
- Informal Appeal Processes
 - 1 – For new technologies, (to staff PE)
 - 2 – For Statute or Rule Reference, (to Supervisor)
- Piloting Fast Track Erosion and Sediment Control in MRO
- Electronic Permitting and Inspections

Erosion and Sediment Control Program Fast Track Pilot Program

- This is not required. It is an option.
- Response has been positive.
- Limited to residential home-building with individual lot disturbance less than 1 acre and total site disturbance less than 5 acres
- Lots are finished or at final grade.
- No change in general drainage pattern
- Not in HQW, No wetlands or creeks within 100 feet
- Expected time of review is 15 days

Electronic Permitting and Inspections

- AMANDA – ECLIPS
 - Back Office – June 2014
 - Portal – January - February 2015
 - Mobile Inspections – August 2014

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)

Questions???

W.E. Toby Vinson, PE, CPESC, CFM, CPM
Chief of Land Quality Section
E-Mail: toby.vinson@ncdenr.gov
Phone: (919) 707-9220