

NPDES Inspections and Monitoring

Guidance and Changes per December 2019 NCG01 Renewal

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NCG010000 Updates for Inspections

Rain Event Threshold

Current threshold
>0.50” within 24 hours

As of Jan .1 2019 the new permit states >1.00”/24 hours. Who falls under this new threshold will be determined before Jan. 1

Normal Business Hours

Under the current NCG01: weekends and Federal holidays are recognized as exempt* from inspections.

Any project covered under the 2019 renewal: weekends, state and federal holidays are exempt.*

Self-Reporting

Visible sediment deposition in a stream or wetland must be reported to NCDWR within 24 hours of discovery. Follow up information must be provided to DWR staff within 7 calendar days of initial report.

Other occurrences that require reporting include:

- 1- oil spills
- 2- hazardous materials spills
- 3- bypasses
- 4- noncompliance that endangers health or the environment

*unless construction activities are taking place

Conducting the Inspection

Be thorough

Know your inspection area

- ❖ Inspect all areas covered by your permits & plans
- ❖ Avoid complacency
- ❖ Closely monitor perimeter and outfalls

Know your approved plan

Review plan frequently

- ❖ Review all notes, sequences and schedules
- ❖ Compare standard details to installed measures
- ❖ Know your Environmentally Sensitive Areas

Follow up

Communication is key.

- ❖ Review priority items with site personnel
- ❖ Don't attempt to direct their work.
- ❖ Note stages of construction

Writing the Report

Even the best field inspection isn't useful unless the information is properly conveyed.

★ Be concise

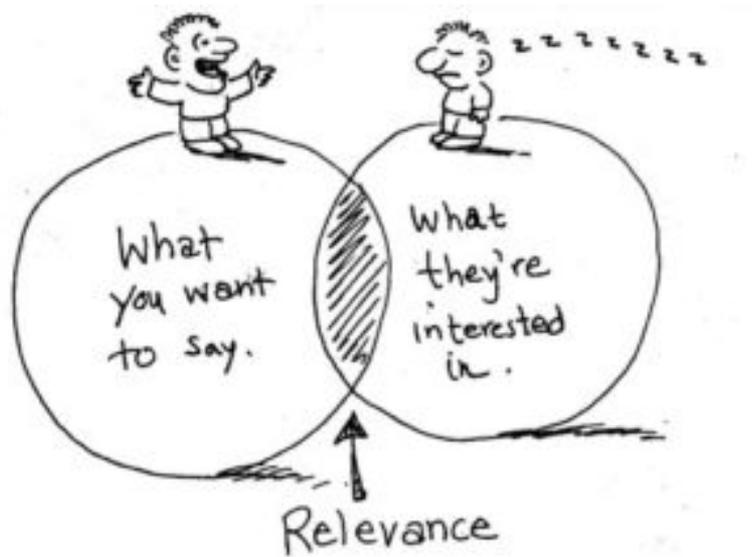
- Provide specific locations for repairs
- Give thorough description of needed repairs
- Provide steps for complicated repairs or impacts

Examples

'Repair basin 2' vs 'Remove accumulated sediment from basin 2, reset baffles and assess skimmer for obstructions.'

'Reset silt fence at homebuilding lots' vs 'Repair silt fence at front right corner of lot 14.'

Know Your Audience

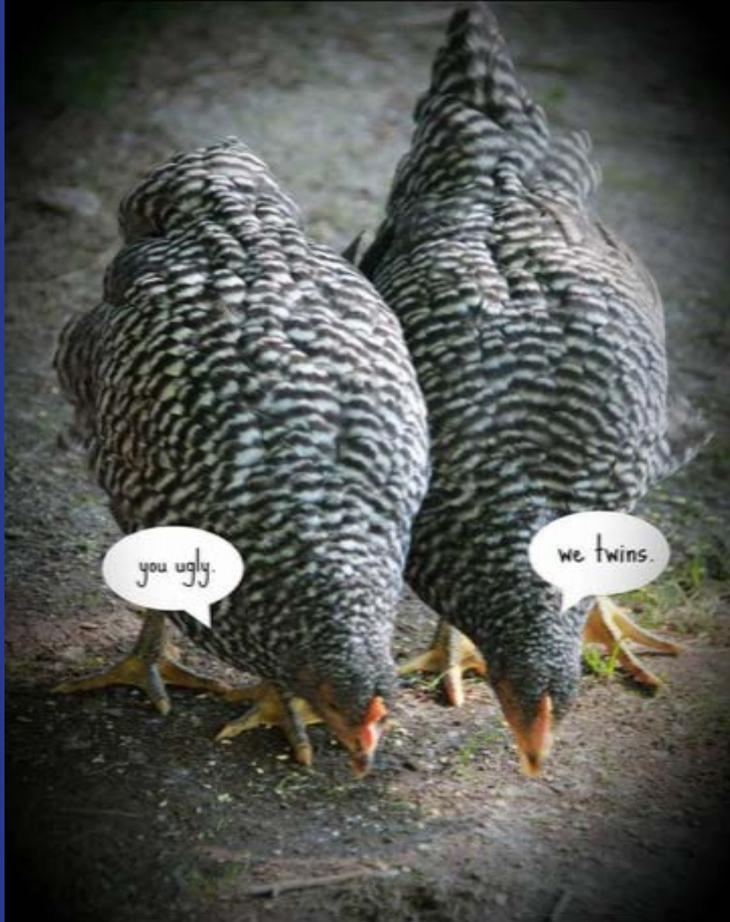


★ Use appropriate language

- Avoid acronyms or abbreviations unless noted on plan
- Consider who is using this report
 - Do repair crews know the site?
 - Could you locate and understand your corrective actions if you weren't familiar with the project?
- Avoid overly technical jargon unless it adds value- remember that the end goal is completion of the repairs

Example

'Remove sed. from RR below invert-out of RB1' vs 'Remove sediment from riprap pad below outfall of riser basin 1 in northeast corner of project.'



The Report & Common findings

**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 INSPECTOR		Name		County	
		Employer			
Inspector Type (Mark)	X	Address			
FRP/Permittee					
Agent/Designee		Phone Number		Email Address	

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

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

*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					Inspection Date	Report Visible Sedimentation to streams or wetlands to Land Quality within 24 Hours http://portal.ncdenr.org/web/1/r/division-contacts Describe Actions Needed <u>Corrective actions should be performed as soon as possible and before the next storm event</u>	Date Corrected
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)			

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 <u>7 days or 14 days</u>	Is Ground Cover Sufficient to Restrain Erosion? (Y/N)	Inspection Date	Describe Actions Needed	Date Corrected

BMPs installed incorrectly

-Why is this wrong?



Right application... wrong place.

What type of application would be suitable?



Common finding.



Stormwater Discharge Outfalls



Stormwater Discharge Outfalls



Stormwater Discharge Outfalls









Water Quality Testing

