



Project: \_\_\_\_\_

In order to comply with G.S. 113A, Article 4 and 15A NCAC 04, see below for items routinely needed for review of an erosion and sediment control plan. Some items may not be applicable to every plan, depending on the specific site conditions.

It is requested that this checklist be included with the plan submittal.

Utilize the legend below to indicate the status of each checklist item as is appropriate.

√	Provided
N/A	Not applicable or not required
TBD	To be determined and/or provided prior to grading permit issuance
UNK	Unknown at this time, must be verified prior to approval

<b>NPDES Construction Stormwater General Permit NCG01000</b>	
	Designation on the plans where the 7- and 14-day ground stabilization requirements apply per Part II.E.1 of the permit.
	Design of basins with one acre or more of drainage area for surface withdrawal as per Part II.B.8 of the permit.

<b>Location Information</b>	
	Name of project
	North arrow and graphic scale
	Owner's name, address and phone number
	Project location and labeled vicinity map (roads, streets, landmarks)
	Identify River Basin
	Provide a copy of the site located on applicable USGS quadrangle and NRCS Soils maps if it is in a River Basin with Riparian Buffer requirements.
	Jordan or Randleman Lake Buffer Requirements shown on plan
	Watershed identified with any additional requirements shown
	Tax map numbers
	Zoning of property

<b>Designer Information</b>	
Company	
Name	
Email	
Phone Number	
Date	
Signature	



<b>General Information</b>	
	Designer's seal (engineer, surveyor, architect)
	Designer's name, address, and phone number
	Project Narrative
	Detailed site and stage specific Construction Sequence, including, but not limited to, <ul style="list-style-type: none"> <li>• installation of initial measures prior to land-disturbing activities,</li> <li>• basin maintenance, including drawdown practices,</li> <li>• temporary and permanent stabilization,</li> <li>• removal of temporary measures after permanent stabilization is achieved, and, when applicable,               <ul style="list-style-type: none"> <li>○ stream crossing installation, maintenance and removal,</li> <li>○ conversion of any permanent stormwater SCMs.</li> </ul> </li> </ul>
	Guilford County General Plan Notes
	NCG01 Supplemental Plan Sheets <ul style="list-style-type: none"> <li>• Ground Stabilization and Materials Handling</li> <li>• Inspection, Recordkeeping and Reporting</li> </ul>
	Include information on Phase-dependent Self-Inspection Requirements
	Clearing and Grubbing Plan
	Off-site property encroachment requiring construction easement
<b>Site Drainage Features</b>	
	Existing and planned drainage patterns (include off-site areas that drain through project and address temporary and permanent conveyance of stormwater over graded slopes)
	Method used to determine acreage of land being disturbed and drainage areas to all proposed measures (e.g. delineation map)
	Size, pipe material and location of culverts and sewers
	Soil information: type, special characteristics
	Soil information below culvert storm outlets
	Name and classification of receiving water course or name of municipal operator (only where stormwater discharges are to occur)
<b>Narrative and Construction Sequence</b>	
	Narrative describing the nature & purpose of the construction activity.
	Pre-construction conference reference
	Project and stage/phase specific construction sequence related to erosion and sediment control, including but not limited to, <ul style="list-style-type: none"> <li>• installation of critical measures prior to the initiation of the land-disturbing activity,</li> <li>• inspection request prior to removal or conversion of measures after areas they serve are permanently stabilized,</li> <li>• removal of temporary measures after areas they serve are permanently stabilized,</li> <li>• and address all phases of construction and necessary practices associated with temporary stream bypasses and/or crossings.</li> </ul>
	Bid specifications related only to erosion control



<b>General Site Features (Plan Elements)</b>	
	Property lines and ownership ID for adjoining properties
	Total acres in tract
	Disturbed acreage (to the nearest 1/10 <sup>th</sup> of an acre)
	Existing contours and labels
	Proposed contours and labels
	Limits of disturbed area (provide acreage total, delineate limits, and label). Be sure to include all access to measures, lots that will be disturbed, and utilities that may extend offsite.
	Planned and existing building locations and elevations
	Planned & existing road locations & elevations, including temporary access roads
	Proposed utilities (including associated off-site utilities and improvements), etc. shown and labeled
	Lot and/or building numbers
	Hydrogeologic features: rock outcrops, seeps, springs, wetland and their limits, streams, lakes, ponds, dams, etc. (include all required local and state buffer zones and any DWQ Riparian Buffer determinations)
	Wetland area limits defined utilizing shading, hatching, etc.
	100 – year floodplain limits and elevations shown and labeled
	Easements (drainage, water quality conservation, utility, access, etc.) and drainageways, including those required for offsite affected areas. Include copies of any recorded easements and/or agreements with adjoining property owners.
	Profiles of streets, utilities, ditch lines, etc.
	Stockpiled topsoil or subsoil locations
	If the same person conducts the land-disturbing activity & any related borrow or waste activity, the related borrow or waste activity shall constitute part of the land-disturbing activity unless the borrow or waste activity is regulated under the Mining Act of 1971, or is a landfill regulated by the Division of Waste Management. If the land-disturbing activity and any related borrow or waste activity are not conducted by the same person, they shall be considered separate land-disturbing activities and must be permitted either through the Sedimentation Pollution Control Act as a one-use borrow site or through the Mining Act.
	Location and details associated with any onsite stone crushing or other processing of material excavated. If the affected area associated with excavation, processing, stockpiles and transport of such materials will comprise 1 or more acres, and materials will be leaving the development tract, a mining permit will be required.
	Required Army Corps 404 permit and Water Quality 401 certification (e.g. stream disturbances over 150 linear feet)



<b>Sediment and Erosion Control Measures</b>	
	Legend reflecting proposed measures: provide appropriate symbols for all measures and reference them to the construction details. <ul style="list-style-type: none"><li>• Include a symbol for each BMP reflected on the plan.</li><li>• Provide consistent naming of BMPs throughout plan, legend, notes, sequences, specifications and standard details.</li></ul>
	Temporary sediment control measures: locations, construction drawings and design <ul style="list-style-type: none"><li>• Show measures to scale on plan and include proposed contours where necessary.</li><li>• Ensure design storage requirements are maintained through all phases of construction.</li><li>• Include applicable dimensions, especially for basins, traps, dissipator pads/outlet protection, and construction entrances.</li><li>• Include a note in the construction sequence or elsewhere on plan that Guilford County Soil Erosion staff must grant approval before the removal of temporary measures.</li></ul>
	Permanent erosion control measures: locations, construction drawings and design <ul style="list-style-type: none"><li>• Show measures to scale on plan and include proposed contours where necessary.</li><li>• Ensure design storage requirements are maintained through all phases of construction.</li><li>• Include dimensions and specifications, especially for dissipator pads/outlet protection</li><li>• Provide specifications for ditch liners and armoring</li></ul>
	Provide contact person responsible for maintenance.
	Stormwater Network: inlets, culverts, swales, ditches, channels, drainage easements, etc. <ul style="list-style-type: none"><li>• Include inlet protection BMPs for all phases of construction.</li></ul>
	Construction and maintenance details for all erosion and sediment control devices <ul style="list-style-type: none"><li>• Standard details and specifications must be provided for all proposed ESC devices.</li><li>• Include silt bag specifications, when anticipated as part of basin drawdown process for maintenance and/or conversion.</li><li>• Utilize Guilford County and North Carolina compliant standard details and specifications.<ul style="list-style-type: none"><li>○ <a href="#">Guilford County Soil Erosion Control Section</a></li><li>○ <a href="#">NCDEMLR E&amp;SC Downloads</a></li><li>○ <a href="#">NCDEMLR Erosion and Sediment Control Planning and Design Manual</a></li></ul></li><li>• Provide contact person responsible for maintenance.</li></ul>
	Temporary Stream Crossings including associated BMPs, specifications and standard details.



<b>Stormwater Calculations</b>	
	Pre-construction runoff calculations for each outlet from the site (at peak discharge points). Be sure to provide all supporting data for the computation methods used (rainfall data for required storm events, time of concentration/storm duration, and runoff coefficients).
	Design calculations for peak discharges of runoff (including the construction phase & the final runoff coefficients for the site)
	Design calculations for culverts and storm sewers (include HW, TW and outlet velocities)
	Discharge and velocity calculations for open channel and ditch flows (easement & rights-of-way)
	Design calculations for cross sections and method of stabilization for existing and planned channels (include temporary linings). Include appropriate permissible velocity and/or shear stress data.
	Design calculations and construction details for energy dissipaters below culvert and storm sewer outlets (include stone/material specs & apron dimensions). Avoid discharges on fill slopes.
	Design calculations and dimension of sediment basins (note current surface area and dewatering standards as well as diversion of runoff to the basins). Be sure that all surface drains, including ditches and berms, will have positive drainage to the basins.
<b>Vegetative Stabilization</b>	
	Area & acreage to be stabilized with vegetation
	Permanent and Temporary Seeding Schedules and Rates, including <ul style="list-style-type: none"> <li>• Seed type and rates,</li> <li>• Fertilizer type and rates,</li> <li>• Seedbed preparation and additional additives such as lime, etc.),</li> <li>• Mulch, tackifiers, etc.</li> </ul>
	Permanent and Temporary Liners for Channels, Swales, Berms and Ditches
NOTE: Plan should include provisions for groundcover in accordance with <u><a href="#">NPDES Construction Stormwater General Permit NCG010000</a></u> .	
<b>Other Requirements</b>	
	Permit Application
	Financial Responsibility Form (Complete, Signed and Notarized)
	Grading Fee
	Surety
	Copy of the most current deed
	Watershed Section approval of the following plan submissions are required prior to the issuance of a Grading Permit by the Erosion Control Section: <ul style="list-style-type: none"> <li>• Watershed Development Plan (low- and high-density projects)</li> <li>• Buffer Authorization (when required)</li> <li>• Floodplain Development Permit (when required)</li> </ul> Contact Brent Gatlin, Watershed/Stormwater Engineer at <a href="mailto:kgatlin@guilfordcountync.gov">kgatlin@guilfordcountync.gov</a> for questions. <a href="#">Guilford County Watershed Section Forms</a>