

**ESPCP GENERAL NOTES:**

The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, or concurrent with, land-disturbing activities.

Erosion and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

**PLAN ALTERATIONS**

The Erosion Sedimentation and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project based on common construction methods and techniques. If the Contractor elects to alter the stage construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance with Special Provision 161 of the contract.

The Contractor, the Certified Design Professional and the WECS shall carefully evaluate this plan prior to commencing land disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC level-II-certified design professional. Additional BMP's may be added per Special Provision 161 - Control of Soil Erosion and Sedimentation.

**TEMPORARY MULCHING**

EPD General Permit GAR 100002 states that "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." However, the Department typically requires disturbed areas to be stabilized every 7 days. The construction documents, special provisions, or specifications may require mulching more often than 7 days.

**VEGETATION AND PLANTING SCHEDULE**

All temporary and permanent vegetative practices including plant species, planting dates, seeding fertilizer, lime and mulching rates for this project can be found in section 700 of the current edition of the Department's specifications and other applicable contract documents, special provisions, or landscaping plans.

**SEQUENCE OF MAJOR ACTIVITIES**

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted with the NOI. A copy of the construction schedule shall be maintained at the project site.

Contractor shall install all initial perimeter controls during Phase 1 prior to or concurrent with clearing and grubbing operations per the phased BMP Location Details. The items included in Phase 1 include but are not limited to perimeter sediment barrier, silt retention barrier and construction entrances. All items installed in Phase 1 shall be maintained through the entire project. Install the sediment basins prior to mass grading operations for Phase 2 so that during Phase 2 mass grading operations, runoff from disturbed areas is directed to the sediment basins. Contractor shall install all other erosion control items per Phase 2 BMP Location Details concurrently with the mass grading operations for Phase 2 construction. Ditch Checks, Silt Control Gates, Inlet Sediment Traps, Temporary Pipe Slope Drains, Temporary Earth Berm, Diversion Channels and any other items specified on the Phase 2 BMP Location Details shall be installed as early as practicable. Final construction BMPs, such as rip rap, permanent slope drains, channel linings, headwalls, slope mats, detention ponds, etc. shall be installed as soon as practicable per the phased BMP Location Details and Roadway Plan Sheets.

**ALTERNATIVE BMPs**

Alternative BMPs are not used on this project. Silt Gates are used on this project as additional BMPs at pipe inlets and are not being used in place of or as a substitute for other conventional BMPs. Temporary check dams are used in ditches to provide

**PETROLEUM STORAGE, SPILLS AND LEAKS**

The plans provided herein do not anticipate the storage of petroleum products onsite. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture and disposal of any petroleum product leaks or spills associated with the servicing, refueling or operation of any equipment utilized in the work. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with this plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GAR100002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

**SOIL SERIES INFORMATION**

A project specific soil survey and geotechnical investigation was performed for this project and can be made available upon request. Soil characteristics have been given full consideration in the hydrologic analysis, the design of channels and linings, selection of temporary BMP's, design of energy dissipaters, and in the selection of permanent vegetation and fertilizers.

The following is a summary of the soils that are expected to be found on the project site:

Erosion Hazard (Road, Trail) - Summary by Map Unit - Columbia, McDuffie, and Warren Counties, Georgia						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (rating values)	Acres in AOI	Percent of AOI
AmB	Appling sandy loam, 2 to 6 percent slopes	Moderate	Appling (100%)	Slope/erodibility (0.50)	20.4	4.7%
AmC	Appling sandy loam, 6 to 10 percent slopes	Moderate	Appling (100%)	Slope/erodibility (0.50)	11.2	2.6%
CfC2	Cecil sandy clay loam, 6 to 10 percent slopes, eroded	Moderate	Cecil (100%)	Slope/erodibility (0.50)	22.9	5.2%
CK	Chewacla and Congaree soils	Slight	Chewacla (60%)	N/A	18.1	4.2%
			Congaree (35%)	N/A		
			Roanoke (5%)	N/A		
EnD	Enon sandy loam, 10 to 15 percent slopes	Severe	Enon (100%)	Slope/erodibility (0.95)	18.8	4.3%
HeC	Helena loamy coarse sand, 6 to 10 percent slopes	Moderate	Helena (100%)	Slope/erodibility (0.50)	16.8	3.9%
WeB	Wedowee loamy sand, 2 to 6 percent slopes	Moderate	Wedowee (100%)	Slope/erodibility (0.50)	56.2	12.9%
WeC	Wedowee loamy sand, 6 to 10 percent slopes	Moderate	Wedowee (100%)	Slope/erodibility (0.50)	107.6	24.6%
WeD	Wedowee loamy sand, 10 to 15 percent slopes	Severe	Wedowee (100%)	Slope/erodibility (0.95)	31.1	7.1%
WeE	Wedowee loamy sand, 15 to 25 percent slopes	Severe	Wedowee (100%)	Slope/erodibility (0.95)	44.1	10.1%
Wf	Wehadkee silt loam	Slight	Wehadkee (100%)	N/A	81.7	18.7%
Misc. *	N/A	N/A	N/A	N/A	8.00	1.70%
<b>Totals for Area of Interest (AOI)</b>					<b>436.90</b>	<b>100.00%</b>

\*All other soils with each less than 2% of AOI  
 Due to the size and scope of this project and the nature of soil series maps, it is not reasonably possible to identify the precise locations of the above reference soils on the plans. The NRCS soil survey and soil series maps for the project area are also available online at <http://websoilssurvey.nrcs.usda.gov/>.

**POST-CONSTRUCTION BMP'S**

All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP. The post construction BMP's for this project consist of vegetation, permanent slope drains, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, vegetated swales/ditches where practical, channel/ditch stabilization with Turf Reinforcing Mats, and rip-rap at ditch outfalls. The post-construction BMP's will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants into receiving waters. Additionally, the use of Inlet filters in structures located at station 38+60 & 41+75 It & rt will enhance water quality.

**SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS**

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique, or configuration, is commonly referred to as J-hooks or spurs. The J-hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J-hooks shall be spaced in accordance with the Typical Location Details for silt fences/baled straw. Spacing for J-hooks shall not be less than 50 feet except as noted. Silt fences that are near the outlet of culverts, cross drains, and storm drains shall have a minimum of three (3) J-Hooks on both sides of the structure at spacing not to exceed 30 feet. J-Hooks shall be paid for as silt fence items per foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

**SITE STABILIZATION AND BMP MAINTENANCE MEASURES**  
 See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 710, and other contract documents for stabilization and maintenance measures.

**WASTE DISPOSAL**  
 Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

**INSPECTIONS**  
 By written agreement with Georgia EPD, the Department's Construction Project Engineer has been designated to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within seven days after installation.

By agreement with Georgia EPD, the design professional who prepared the ESPCP, or a certified designee, is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days of installation. Additionally, the Department's Construction Project Engineer will be responsible for seven-day inspections for all new BMP installations.

All other inspections shall be documented on the appropriate Department Inspection forms. See Standard Specification (or Special Provision) 167 and other contract documents for inspection requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

**NON-STORM WATER DISCHARGES**  
 Non-storm water discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and contract documents.

**DE-WATERING ACTIVITIES AND USE OF PUMPS**  
 Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag, or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR100002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

**OTHER CONTROLS**  
 The Contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Specifications.

**RETENTION OF RECORDS**  
 1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD;
- b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
- d. A copy of all monitoring information, results, and reports required by this permit;
- e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
- f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
- g. Daily rainfall information collected in accordance with Part IV.D.4.a.(1)(c) of this permit.

2. Copies of all Notices of Intent, Notices of Termination, reports, plans, monitoring reports, monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternate location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.



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REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: PROGRAM DELIVERY	
		<b>ESPCP GENERAL NOTES</b>	
		WILLIAM FEW PKWY EXT. PH. 2	DRAWING No. 51-01