

### **ENCLOSURE 3**

Routine land disturbing activities that do not require a permit

## ROUTINE ACTIVITIES NOT REQUIRING APPROVAL

The following land disturbing activities may be undertaken without prior approval from ENV, provided the activity is conducted in accordance with the best management practices (BMP) outlined in Enclosure 5 and any additional requirements described below, and less than one (1) acre of land is disturbed.

<u>ACTIVITY</u>	<u>ADDITIONAL REQUIREMENTS</u>
Foxholes/Fighting Positions	FJ Range Reg 350-14, Section 7-2.u
Range/Grounds Maintenance	FJ Minimal BMPs, Enclosure 5 of MOI
Projectile Impact*	
Utility/communication line repair	FJ Minimal BMPs, Enclosure 5 of MOI

\*Remedial actions are not required. There is no evidence projectile impact result in any erosion problem that has a negative impact to water quality or quantity or run off velocity. Furthermore, safety considerations severely limit remedial actions.

**ENCLOSURE 4**

Fort Jackson minimal best management practices (BMPs) for routine activities

## Fort Jackson Minimal Best Management Practices (BMPs) for Routine Activities

1. Establishment of Permanent Vegetation: The establishment of permanent vegetation is essential in most erosion control applications. To be successful in establishing vegetation on the sandy soils at Fort Jackson, always apply lime and fertilizer. Lime raises the pH of the acidic sandy soils; fertilizer adds nutrients to the soil for adequate plant growth. Without lime to adjust the pH, fertilizer has little effect. (A supplemental application of fertilizer should be applied during the second growing season to provide adequate nutrition and to sustain plant growth.) Once lime and fertilizer are incorporated, seed should be planted using conventional, broadcast, or hydroseeding methods. Conventional or broadcast methods are preferred because seed is placed into and in contact with the soil thus providing a better opportunity for seed germination. Straw mulch is important to protect the bare soil from raindrop impact and help to hold in moisture for seed germination.

### Planting Specifications

- Prepare seedbed
- 1.5 tons of agricultural lime per acre (70#/1000 square feet)  
if hydroseeding, 2 gallons liquid lime per acre in addition to agricultural lime
- 700 # 10-10-10 fertilizer, or equivalent, per acre (16# per 1000 square feet)
- Incorporate lime and fertilizer
- Plant seed using conventional planting, broadcast, or hydroseeding methods
- Mulch with 1 ½ tons per acre wheat straw
- Crimp straw into soil or use a tackifier to hold straw in place
- Apply supplemental fertilizer during second growing season at an approximate rate of 300 – 500 pounds per acre of 10-10-10 or equivalent (7-11#/1000 sf).

### **Turf Mixture for Spring/Summer Seeding in Mowed and Maintained Areas (Optimum Date to Plant is 1 March to 15 July)**

Seed	Pounds per Acre	Ounces per 1000 Sq Ft	Minimum % Purity	Minimum % Germination	Foot-notes
Browntop Millet	10#	4 oz	98	85	
Hulled Common Bermudagrass (without hull)	45 #	17 oz	97	85	
Bahiagrass	30	11 oz			

### **Turf Mixture for Fall Seeding in Mowed/Maintained Areas**

**(Optimum Date to Plant is 1 September to 15 November) \***

Seed	Pounds per Acre	Ounces per 1000 Sq Ft	Minimum % Purity	Minimum % Germination	Foot-notes
Rye (Grain)	10	4 oz	97	85	
Unhulled Common Bermudagrass (with hulls)	130#	48	97	85	

\*Common bermudagrass with hulls can also be planted from 10 January - 20 March

**Turf Mixture for Fall Seeding in Mowed/Maintained Areas  
(Optimum Date to Plant is 1 September to 15 November) \***

Seed	Pounds per Acre	Ounces per 1000 Sq Ft	Minimum % Purity	Minimum % Germination	Foot-notes
Rye (Grain)	10	4 oz	97	85	
Bahia	40	16			

**Turf Mixture for Winter Seeding in Mowed/Maintained Areas  
(Optimum Date to Plant is 1 January to 1 March) \***

Seed	Pounds per Acre	Ounces per 1000 Sq Ft	Minimum % Purity	Minimum % Germination	Foot-notes
Rye (Grain)	10	4 oz	97	85	
Bahia	40	16			

**Turf Mixture for Winter Seeding in Mowed/Maintained Areas  
(Optimum Date to Plant is 1 January to 1 March) \***

Seed	Pounds per Acre	Ounces per 1000 Sq Ft	Minimum % Purity	Minimum % Germination	Foot-notes
Rye (Grain)	10	4 oz	97	85	
Bahia	30	11			
Unhulled Bermuda	65	24	97	85	

Note: ENV may in some cases require or allow deviations from the seeding schedule. Establishment of vegetation is one of the most effective and cost efficient, erosion prevention BMPs. Establishment of vegetation may require soil testing and preparation. ENV encourages consultation of SCDDOT erosion prevention specifications related to temporary or permanent vegetation.

**Tall Grass Mixture for Spring/Summer Seeding in Unmowed Areas**

**(Optimum Date to Plant is 1 March to 15 June)**

Seed	Pounds per Acre	Ounces per 1000 Sq Ft	Minimum % Purity	Minimum % Germination	Foot-notes
*Oats	10	4oz	98	85	
Brown top Millet	10	4 oz	98	85	
Bahiagrass	25	8 oz	65	70	
Appalow sericea Lespedeza (scarified)	20	8 0z	98	85	(1) (2)
Kobe lespedeza	5	2 oz	97	85	(1) (2)
Switchgrass	2 PLS (3)	1 oz			

\* Oats should be added to mixture if seeding date is prior to April 15.

**Tall Grass Mixture for Fall/Winter Seeding in Unmowed Areas**  
**(Optimum Date to Plant is 1 September to 15 November)**

Seed	Pounds per Acre	Ounces per 1000 Sq Ft	Minimum % Purity	Minimum % Germination	Foot-notes
Rye (Grain)	56	21 oz	97	85	
Bahiagrass	40	15 oz	65	70	
Appalow sericea Lespedeza (unscarified)	60	22 oz	98	85	(1) (2)
Switchgrass	2 PLS	1 oz			(3)
Crimson Clover	5	2			

\*Common bermudagrass with hulls can also be planted from 10 January - 20 March)

**\*Footnotes:**

(1) Includes hard seed.

(2) Seeds of appalow sericea lespedeza, Kobe lespedeza, and Crimson Clover shall be inoculated with an appropriate culture of nitrogen-fixing bacteria. The inoculate shall be applied in accordance with the manufacturer's directions. (If hydroseeding, use 4 times the recommended rate or inoculant)

(3) Pure live seed: Seed germination shall not be less than 50%.

2. Storm Drain Inlet Protection: Many times, land disturbing activities - even small ones - take

place adjacent to storm drains. Sediment can easily enter these drains and be deposited in ponds, streams, wetlands, and/or off the installation. To prevent this, storm drain inlets should be protected using silt fence, or stone.

3. Storm Drain Outlet Protection: Once storm water runoff enters a storm drain system, resistance in the pipe is minimal and the drop in elevation can be significant. The result is stormwater exiting the outlet pipe at significantly increased velocities causing soil erosion. All outlets should be protected with rip rap to decrease water velocity and protect the soil. The outlet should be excavated and the rip rap placed so that water flows over the rock rather than through the rock. Geotextile filter fabric should always be placed underneath the rip rap.

4. Silt Fence: Silt fence should be placed below disturbed areas where the size of the area is no more than  $\frac{1}{4}$  acre per 100 feet of silt fence length, the maximum slope length behind the fence is 100 feet and the maximum gradient behind the fence is 25 percent.

5. Tracking: Many times slopes are disturbed for maintenance or various construction activities. Before the slope is seeded, run a bulldozer up and down the slope. The tracks make grooves in the soil. Broadcast seed and rainwater runoff collects in these grooves providing a moist environment for seed germination. After straw mulching is completed, run the bulldozer up and down the slope again to tack the straw into the soil.

**ENCLOSURE 5**

Co-permittee Agreement for land disturbing activities of 1 acre or greater



Fort Jackson Storm Water Management

### CO-PERMITTEE AGREEMENT

"I certify by my signature below that: a) for Sites that disturb 10 or more acres, I participated in a pre-construction conference onsite or, when allowed, offsite with the individual who is responsible for the operational control of the Storm Water Pollution Prevention Plan (SWPPP); and b) I accept the terms and conditions of SWPPP as required by the general National Pollutant Discharge Elimination System (NPDES permit number SCR100000) issued to the Owner/Operator of the construction activity for which I have been contracted to perform construction related professional services. Further, by my signature below, I understand that I am becoming a Co-permittee with the Owner/Operator and other contractors that have become Co-permittees to the general NPDES permit issued to the Owner/Operator of the facility for which I have been contracted to perform professional construction services. As a Co-permittee, I understand that I, and my company, as the case may be, am legally accountable to the SC Department of Health and Environmental Control (DHEC), under the authorities of the CWA and the SC Pollution Control Act, to ensure compliance with the terms and conditions of the SWPPP. I also understand that DHEC enforcement actions may be taken against any specific Co-permittee or combination of Co-permittees if the terms and conditions of the SWPPP are not met. Therefore, having understood the above information, I am signing this certification and am receiving Co-permittee status to the aforementioned general NPDES permit."

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(NAME OF PROJECT)

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(SIGNATORY PRINTED NAME)

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(SIGNATURE)

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(TITLE)

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(COMPANY NAME)

---

(ADDRESS)

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(CITY, STATE, ZIP)

---

(TELEPHONE)

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(TYPE OF WORK CONDUCTING ON THIS PROEJCT)

#### **SIGNATORY AUTHORITY:**

For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

- (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decisionmaking functions for the corporation, or
  - (ii) The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
- (3) For a municipality, State, Federal, or other public agency or public facility: By either a principal executive officer, mayor, or other duly authorized employee or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
- (i) The chief executive officer of the agency, or
  - (ii) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator, Region IV,EPA).

**ENCLOSURE 6**

NPDES General Permit

<http://www.scdhec.gov/environment/water/docs/finalcgp.pdf>

EPA NPDES Guidance  
Stormwater Pollution Prevention Plans for Construction Activities

<http://cfpub.epa.gov/npdes/stormwater/swPPP.cfm>

**ENCLOSURE 7**

1. NPDES Notice of Intent (NOI):

<http://www.scdhec.gov/administration/library/d-2617.pdf>

2. NOI for Projects Less Than 1 Acre:

<http://www.scdhec.gov/administration/library/d-2628.pdf>

3. NPDES Notice of Termination (NOT):

<http://www.scdhec.gov/environment/water/docs/swnot.pdf>

**ENCLOSURE 8**

Fort Jackson Storm Water Pollution Prevention Plan Review Checklist

# **Fort Jackson Storm Water Pollution Prevention Plan (SWPPP) Review Checklist**

		<i>Please indicate the location and page number(s) where each item below can be found in your SWPPP or supporting calculations. If an item is not applicable, put N/A. Fort Jackson reserves the right to modify this checklist at any time.</i>	COMMENTS
<u>"Yes"</u>	<u>"No"</u>	Project Title: _____	
		How many acres of land disturbance?	
		Checklist Completed by:	
		Printed name: _____	Signature: _____
		Date: _____	
1.00 CURRENT COMPLETED APPLICATION FORM			
<ul style="list-style-type: none"><li>· Does the NOI have the original signatures?</li><li>· Is this the proper signatory authority?</li><li>· Are all items completed and answered?</li><li>· Is there a \$125 check attached? Review fee is not applicable. Fort Jackson will review and not DHEC</li></ul>			
2. COPIES OF PLANS AND CALCULATIONS			
There should be 2 items submitted: the drawings and the SWPPP. All documentation, calculations, NOI, etc should be included in the SWPPP. There should be no loose documents.			
3. LOCATION MAP			
<ul style="list-style-type: none"><li>· Is there a North arrow and scale?</li><li>· Is the project location outlined?</li><li>· Are the road names labeled?</li></ul>			
4. PROJECT NARRATIVE			
<ul style="list-style-type: none"><li>· Is the scope of project outlined, including a brief description of pre- and post-development conditions?</li><li>· Is there a summary table of pre- and post-development flows (at least 2- and 10-year, 24-hour storm events?)</li><li>· Are existing flooding problems in the surrounding area described?</li><li>· Are disturbed area calculations included for subdivision projects or LCP disturbing 1 or more acres?<ul style="list-style-type: none"><li>○ For subdivisions if the site is not to be mass-graded, the following formula should be used to determine the amount of disturbance:<math display="block">\text{Amount of Disturbance} = 2[\text{Max Restricted Building Size}][\text{Number of Lots}] + \text{Right of Way (ROW)} \text{ areas } \{ \text{ROW areas include clearing for roads, utilities, easements etc.}\}</math></li></ul></li></ul>			

## Fort Jackson Storm Water Pollution Prevention Plan (SWPPP) Review Checklist

<u>"Yes"</u>	<u>"No"</u>	<u>"N/A"</u>	<u>Page or Sheet # Be Specific</u>	<i>Please indicate the location and page number(s) where each item below can be found in your SWPPP or supporting calculations. If an item is not applicable, put N/A. Fort Jackson reserves the right to modify this checklist at any time.</i>	<u>Comments</u>
				<p><input type="checkbox"/> If this equation is used, include a note on the plans stating: "The site is not to be mass-graded. Only 2 times the footprint is to be cleared as the lots are developed. The assumed disturbance on each lot is sq. ft.</p>	
				<b>5. USGS TOPOGRAPHIC MAP</b>	
				<ul style="list-style-type: none"> <li>· Is the project boundary outlined on the topo map?</li> <li>· Is the route of runoff from site to nearest waterbody shown?</li> <li>· Are Road names adjacent to site labeled?</li> </ul>	
				<b>6. SOILS INFORMATION</b>	
				<ul style="list-style-type: none"> <li>· Is the project boundary outlined on a soils map?</li> <li>· Are predominate soil types found at the site identified on the plans or on a separate map?</li> </ul> <p><input type="checkbox"/> Note: Soils information is available from the Natural Resource Conservation Service through their website: <a href="http://websoilsurvey.nrcs.usda.gov/app/">http://websoilsurvey.nrcs.usda.gov/app/</a></p>	
				<b>7. FLOODWAY MAPS/FEMA FLOOD INSURANCE MAP</b>	
				<ul style="list-style-type: none"> <li>• Is the project boundary outlined, if in close proximity to floodplain/ floodway?</li> </ul>	
				<b>8. WATERS OF THE STATE, INCLUDING WETLANDS</b>	
				<p><input type="checkbox"/> Is a 404 permit required? <i>(2.J.C)</i></p> <p>Has a 404 permit been issued? <i>(2.I.C)</i></p> <ul style="list-style-type: none"> <li>· Is there a delineation of all waters of the State (WoS), including wetlands, shown and labeled on plans (delineation not required if a 100-ft undisturbed buffer can be maintained between the WoS and all land-disturbing activities) <ul style="list-style-type: none"> <li>• Is there an additional, separate plan sheet that shows all WoS on the site and the impacted areas with a description of the activity(s), whether it is permanent or temporary, and any other relevant information?</li> <li>• If impacts to WoS, are areas of impacts outlined and labeled that no work can begin in this area until all necessary USACOE permits and SCDHEC 401 certifications have been obtained.</li> </ul> </li> <li>· Is a double row of silt fence provided in all areas where a 50' undisturbed buffer cannot be maintained between the disturbed area and the WoS? <ul style="list-style-type: none"> <li>· Is there a minimum 10' maintenance buffer provided between last row of silt fence and WoS; or, if buffer not provided, then statement from P.E. on plans indicating how silt fence will be installed and maintained without impacts to WoS?</li> </ul> </li> </ul> <p><input type="checkbox"/> Note: If there are proposed impacts to WoS, then it is advised that you contact USACOE (866-329-8187) and/or S.C. DHEC Water Quality Certification, Standards &amp; Wetlands Programs Section (803-898-4300) to determine additional requirements before submitting the Notice of Intent (NO).</p>	

# Fort Jackson Storm Water Pollution Prevention Plan (SWPPP) Review Checklist

<u>"Yes"</u>	<u>"No"</u>	<u>"N/A"</u>	<u>Page or Sheet # Be Specific</u>	<i>Please indicate the location and page number(s) where each item below can be found in your SWPPP or supporting calculations. If an item is not applicable, put N/A. Fort Jackson reserves the right to modify this checklist at any time.</i>	<u>Comments</u>
				<ul style="list-style-type: none"> <li>• Note: If WoS are to be impacted, work cannot be performed in these designated areas until all necessary permits have been acquired</li> <li>• Note: If a USACOE permit is required for construction of or access to a temporary or permanent stormwater management structure, NPDES permit coverage cannot be granted until the USACOE permits and S.C. DHEC 401 Section certifications are obtained.</li> <li>• Note: The Department recommends a minimum 20-foot buffer between a sediment trap/basin and WoS.</li> </ul>	
				<p><b>9. HYDROLOGIC ANALYSIS</b></p> <ul style="list-style-type: none"> <li>• Have you provided pre- and post-developed hydrologic analysis calculations for the 2- and 10-year, 24-hour storm events at each outfall point?</li> <li>• Have you provided drainage area maps that clearly correspond to the calculations (pre- and post-development)</li> <li>• Analysis points for comparing runoff rates and the total drainage area analyzed do not change from pre- to post-development, although the immediate drainage areas contributing to each analysis point might shift.</li> <li>• Post-development discharges less than pre-development discharges for each outfall point (if not, then see "Detention Waiver" section below)</li> <li>• Was the analysis performed using SCS 24-hour storm? (Rational method is not acceptable)</li> <li>• <u>Was Rainfall data from South Carolina DHEC Storm Water Management BMP Handbook (BMP Handbook) used in all calculations?</u></li> </ul>	
				<ul style="list-style-type: none"> <li>• Note: The curve number for open water, marshes, etc. should be 98 to 100.</li> </ul>	
				<p><b>10. DETENTION ANALYSIS/DESIGN</b></p> <ul style="list-style-type: none"> <li>• <b>Analysis</b> <ul style="list-style-type: none"> <li>➢ Did pond routing use a volume-based hydrograph for the 2- and 10-year, SCS 24-hour storm event (DrainEdge, ICPR, HEC-1, SedCAD, HYDRAFLOW, etc. perform full pond routings; TR55 does not perform a full pond routing; rational method cannot be used)</li> <li>➢ Are hydrologic and hydraulic calculations included? These will determine the impact of hydrograph timing modifications of the proposed land-disturbing activity, with and without the detention structure (results of analysis will determine the need to modify the detention design or eliminate the detention requirement—see note 2 below)</li> <li>➢ Are inputs and outputs from the analysis program?</li> <li>➢ Is there a summary table of the peak inflows, peak outflows, discharge velocities, and maximum water surface elevations (WSE) for the 2- and 10-year, 24-hour storm events for each detention structure</li> <li>➢ Is the stage-storage-discharge relationship for the outlet structure of each detention structure included?</li> </ul> </li> </ul>	

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				<ul style="list-style-type: none"> <li>➤ If a rating curve for the outlet structure must be generated externally from the analysis program (DrainEdge, HEC-1, etc.), are data and equations used to rate the outlet structure included?</li> <li>➤ Does the site drain to an existing detention pond? (see below)</li> <li>➤ If so, is an As-built of the existing detention pond included? (see below)</li> </ul> <p><i>Q</i> Note: SedCAD users please refer to the memo regarding the input of outlet structures.</p>	
				<p><b>Note: The Department recommends using the 10% rule in performing analysis. The hydrologic analysis should be conducted for the larger drainage area, where the site in question encompasses 10% of the total drainage area. For example, if your site is 10 acres, then the hydrologic analysis should be performed at the point downstream where the contributing drainage area, including your 10-acre site, is approximately 100 acres.</b></p> <p>Was the 10% rule used in performing the hydrologic analysis? If not provide an explanation.</p>	
				<ul style="list-style-type: none"> <li>● <b>Design</b></li> <li>➤ Is there a detail of outlet structure and cross-section of the dam/ berm or pond bank?</li> <li>➤ Large elevations and dimensions that correspond to the calculations included?</li> <li>➤ Was orifice constructability considered (do not specify orifice diameters with increments of less than 1/4")</li> <li>➤ Is the maximum WSE for the 10-year storm event below the emergency spillway?</li> <li>➤ Is there a 0.5-ft of freeboard between maximum WSE for the 10-year storm and the emergency spillway?</li> <li>➤ Is the maximum WSE for the 100-year storm event below the embankment?</li> <li>➤ Is there a 0.5-ft of freeboard between maximum WSE for the 100-year storm and the embankment?</li> <li>➤ Are there included dewatering time calculations for the 10-year storm event? (dry ponds must drain completely within 72 hours)</li> <li>➤ Is the bottom of all detention and retention ponds graded to have a slope of not less than 0.5%?</li> <li>➤ Is a low flow or pilot channel constructed across the pond bottom from the inlet to the outlet to prevent standing water conditions?</li> <li>➤ If the pond is to be used for sediment control during construction, is a temporary horseshoe-shaped riprap berm in front of any low level outlets provided during construction and shown on the pond detail?</li> <li>➤ Is there permanent maintenance access to all permanent detention structures?</li> <li>➤ Are infiltration systems designed in accordance with S.C. Reg. 72-307.C(11) [specify how items a-j have been addressed]</li> <li>➤ Are emergency spillways built on fill slopes? (should not be)</li> </ul>	

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				<ul style="list-style-type: none"> <li>➤ Is a trash rack or other debris-screening device included on all pond risers?</li> <li>➤ Is there a maximum slope of 3:1 on pond embankments to allow for ease of maintenance?</li> <li>➤ Are sediment forebays at each outfall into the detention/ sediment basin included?</li> </ul>	
				<p><b>11. AS-BUILTS</b></p> <ul style="list-style-type: none"> <li>• Are As-Builts provided for all previously approved detention ponds that will receive flows from new drainage areas?</li> <li>• Were these As-Builts prepared by a South Carolina Licensed Land Surveyor</li> <li>• Do the As-Builts include grades/ contours/ depths for the pond?</li> <li>• Are elevations and dimensions of all outlet structures included? Including:           <ul style="list-style-type: none"> <li>➤ Pipe and orifice inverts and diameters?</li> <li>➤ Weir elevations and dimensions?</li> <li>➤ Riser dimensions and elevations?</li> <li>➤ Emergency spillway dimensions and elevations?</li> <li>➤ Locations and inverts for all pipes discharging into the pond?</li> </ul> </li> <li>• If the elevations or dimensions of the structures listed above do not match those used in the approved plans, certification statement signed by the project's Registered Engineer indicating that the pond, as built, will function within all applicable standards provided [new analysis of the pond (routing) may be necessary] Is this certification provided?</li> <li>• Note: As-built survey and/or analysis must be submitted and accepted by the Department before Notice of Termination (NOT) is submitted.</li> </ul>	
				<p><b>12. PERMANENT STORMWATER MANAGEMENT STRUCTURE MAINTENANCE</b></p> <ul style="list-style-type: none"> <li>• Is there a signed agreement from the responsible party accepting ownership and maintenance of the structure?</li> <li>• Is there a description of maintenance plan to be used?</li> <li>• Is there a schedule of maintenance procedures (e.g., every 6 months)?</li> <li>• Are there detailed or manufacturer-specific maintenance items for proprietary control devices (oil-water separators, etc.), underground detention structures, infiltration systems and non-traditional stormwater controls (constructed wetlands, bioretention, etc.)</li> <li>• Are typical maintenance items addressed? Such as:           <ul style="list-style-type: none"> <li>➤ Grass to be mowed?</li> <li>➤ Trees to be removed from within the pond and on the embankment?</li> <li>➤ Trash and sediment to be removed from inside of and around the pond outlet structure?</li> <li>➤ Outlets pipe to be cleaned and unclogged?</li> <li>➤ Outlets pipe to be cleaned, inspected, and repaired?</li> </ul> </li> </ul>	

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				Sediment accumulation to be removed from pond?	
				► Pond bottom to be reggraded to provide proper drainage towards the outlet discharge point?	
				► Energy dissipator to be cleaned and repaired?	
				► Emergency spillway, if applicable, to be inspected and repaired?	
				► Erosion on side slopes, if present, to be addressed?	
				<b>13. DISCHARGE POINTS</b>	
				<ul style="list-style-type: none"> <li>Are storm drainage or pond outfalls carried to an existing drainage outfall such as a pipe, ditch, etc.?</li> </ul>	
				<ul style="list-style-type: none"> <li>Are there any new point discharges onto adjacent property where there was not a point discharge previously?</li> </ul>	
				If yes, is there written permission from the adjacent property owner?	
				<ul style="list-style-type: none"> <li>Are level spreaders, plunge pools, etc. provided when the proposed outlet is near the property line and not directed to an existing outfall, such as a creek or ditch?</li> </ul>	
				<ul style="list-style-type: none"> <li>Is there a twenty (20)-foot minimum buffer is provided between the property line and the discharge point?</li> </ul>	
				<ul style="list-style-type: none"> <li>Do outlets discharge on fill slopes? (Outlets should not discharge onto fill slopes)</li> </ul>	
				<b>14. DETENTION WAIVER</b>	
				<ul style="list-style-type: none"> <li>Note: If the 2- and 10-year, 24-hour post-developed flow rates exceed the pre-developed rates, waivers from detention may be granted in accordance with regulation 72-302(B) on a case-by-case basis</li> </ul>	
				<ul style="list-style-type: none"> <li>Justification and a written request, including the following statement: "the increased flows will not have a significant adverse impact on the downstream/adjacent properties."</li> </ul>	
				<ul style="list-style-type: none"> <li>A project may be eligible for a waiver or variance of stormwater management for water quantity control if the applicant can demonstrate that:           </li> </ul>	
				<ul style="list-style-type: none"> <li>The proposed project will have no significant adverse impact on the receiving natural waterway or downstream properties; or</li> </ul>	
				<ul style="list-style-type: none"> <li>The imposition of peak control requirements for rates of stormwater runoff would aggravate downstream flooding</li> </ul>	
				<ul style="list-style-type: none"> <li>Is the Waiver signed by the project's Professional Engineer?</li> </ul>	
				<ul style="list-style-type: none"> <li>Note: See note in checklist item 10 regarding the 10% rule.</li> </ul>	
				<b>9. PERMANENT WATER QUALITY REQUIREMENTS</b>	
				<ul style="list-style-type: none"> <li>Has permanent water quality been addressed? (all projects or LCP that disturb 5 or more acres)</li> </ul>	
				<ul style="list-style-type: none"> <li>► Wet ponds designed to catch the first 1/2" of runoff from the entire area draining to the pond and release it over at least a 24-hour period</li> </ul>	
				<ul style="list-style-type: none"> <li>► Dry ponds designed to catch the first 1" of runoff from the entire area draining to the pond and release it over at least a 24-hour period</li> </ul>	

## Fort Jackson Storm Water Pollution Prevention Plan (SWPPP) Review Checklist

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				➤ For areas not draining to a pond, show how permanent water quality requirements were addressed	
				<ul style="list-style-type: none"> <li>• Are Waters of the U.S./State used for permanent water quality control? (alternative means of treatment must be used if an existing pond is to be used for water quantity control).</li> </ul> <p>: Note: Other non-traditional stormwater controls such as Bioretention areas, constructed wetlands, etc. may be used. Consult the BMP Handbook for information on the design of these devices.</p>	
				<ul style="list-style-type: none"> <li>• Note: Pre-fabricated or proprietary treatment devices are approved on a case-by-case basis if adequate removal efficiency can be demonstrated. Provide pollutant removal efficiency data, preferably from a third-party testing company. Type of system selected should be based on the ability to remove the pollutants of concern in that area/situation (bacteria, hydrocarbons, etc.).</li> </ul>	
				<b>16. SEDIMENTOLOGY</b>	
				Do 10 or more acres drain to a common point? (stream, lake, etc?)	
				<ul style="list-style-type: none"> <li>• Do trapping efficiency calculations show that all sediment basins/ traps are capable of achieving a sediment trapping efficiency of at least 80% for the 10-year, 24-hour storm event, if more than 10 disturbed acres drain to a common point (stream, lake, etc.)</li> </ul>	
				<ul style="list-style-type: none"> <li>• Do sediment basins provide storage for the 10-year, 24-hour storm event for disturbed conditions or 3600 ft<sup>3</sup>/ acre draining to the basin, if more than 10 disturbed acres drain to a common point (stream, lake, property line, etc.)</li> <li>• Are sediment traps only used for drainage areas of less than 5 acres?</li> </ul>	
				<ul style="list-style-type: none"> <li>• Do sediment trap storage calculations show that 1800 ft<sup>3</sup>/ total acre draining to each trap is provided below the spillway?</li> <li>• If trapping efficiency calculations are required for sediment traps, are peak outflow, q<sub>100</sub>, calculations provided??</li> </ul>	
				Will the 10-year, 24-hour storm event for construction conditions overtop the trap's spillway? (it must not)	
				<ul style="list-style-type: none"> <li>• Are sediment basins and traps designed for total area draining to them?</li> <li>• Is a drainage area map included that outlines the area draining to each basin/ trap?</li> </ul>	
				<ul style="list-style-type: none"> <li>• Are copies of figures used to determine V<sub>15</sub> (SV-1) and trapping efficiency (ST-1, SB-1, SB-2) included, if Design Aids from BMP manual are used to determine trapping efficiencies?</li> <li>• Is silt fence only used in areas with drainage areas of less than 1/4 acre per 100 LF of fence?</li> </ul>	
				Is silt fence used in areas with concentrated flows?	
				<ul style="list-style-type: none"> <li>• Is a clean-out stake, marked at 1/2 the designed sediment storage depth, provided in all sediment basins/ sediment traps?</li> </ul>	
				: Note: Consult the BMP Handbook for information on the design of these and other devices.	

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				<ul style="list-style-type: none"> <li>: Note: The Design Aids in the BMP Handbook cannot be used to determine trapping efficiencies for structures in series. If the flow for the 10-year, 24-hour storm for construction conditions overtops the structure or the structure's spillway, then the Design Aids cannot be used. If multiple soil types are in the area draining to the structure, then the soil type with the smallest D15 for the appropriate depth should be used to determine the settling velocity, V15; an average D15 should not be used.</li> <li>: Note: SedCAD users please refer to the memo regarding the input of outlet structures.</li> </ul>	
				<b>17. STABLE CHANNEL CALCULATIONS</b>	
				<ul style="list-style-type: none"> <li>• Are all channels and diversion ditches able to handle the 10-year storm event with non-erodic velocities of less than 5 feet per second during construction and post-construction? (use appropriate CN for disturbed areas)</li> </ul> <p>Does the velocity in channels exceed 5 ft/s?</p> <ul style="list-style-type: none"> <li>If channel velocity exceeds 5 ft/s, are permanent measures to reduce the velocity to a non-erodic rate provided?</li> <li>Are rock check dams provided in temporary diversions</li> <li>Are installation details for erosion control blanket (ECB) or turf reinforcement matting (TRM) included if ECBs or TRMs to be used</li> </ul>	
				<b>18. INLET PROTECTION</b>	
				<ul style="list-style-type: none"> <li>• Provided at all inlets?</li> <li>• Are hay bales used for inlet protection? (should not be used)</li> <li>• Steel posts and buried fabric shown for filter fabric inlet protection?</li> <li>• Inlet protection details provided for pre-paving and after roadways have been paved?</li> <li>• How many acres drain to each inlet?</li> <li>• Note: The Department recommends that an inlet not have more than one (1) acre draining to it.</li> </ul>	
				<b>19. ENERGY DISSIPATORS/ OUTLET PROTECTION</b>	
				<ul style="list-style-type: none"> <li>• All outlets stabilized?</li> <li>• Riprap aprons sized appropriately?</li> <li>• Riprap detail shows apron dimensions and stone sizes for each pad or each pipe diameter?</li> <li>• Filter fabric installed beneath all riprap?</li> </ul>	
				<b>20. FILL SLOPES AND/ OR EMBANKMENTS</b>	
				<ul style="list-style-type: none"> <li>• All slopes stabilized</li> <li>: Slope drains designed in accordance with the BMP Handbook</li> <li>• Are slope drains provided where concentrated flows discharge onto a fill slope?</li> <li>• For all slopes steeper than 1.5:1, are stabilization practices identified? (e.g., ECB, TRM)</li> </ul>	

## Fort Jackson Storm Water Pollution Prevention Plan (SWPPP) Review Checklist

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				<ul style="list-style-type: none"> <li>• Note: Measures, in addition to grassing or hydroseeding, include synthetic or vegetative matting, diversion berms, temporary slope drains, etc.</li> <li>• Note: If retaining walls or fill slopes are to be constructed at the downstream property line, the Department recommends a 10' buffer to allow for construction and maintenance. If a 10' buffer is not provided, then provide permission from the adjacent property owner for possible land-disturbing activities on his property.</li> </ul>	
				<p><b>21. UTILITY LINES</b></p> <ul style="list-style-type: none"> <li>• Do all limits of disturbance include areas disturbed for water and sewer line installation?</li> <li>• Is inlet protection provided at all existing inlets that receive flows from the disturbed areas? (also add this as a note on the plans) <ul style="list-style-type: none"> <li>• For all utility lines crossing WoS, is a narrative and detail showing sediment and erosion control measures provided on plans?</li> </ul> </li> <li>• Are construction entrances provided at all locations where construction traffic accesses a paved roadway?</li> </ul>	
				<p><b>22. TMDL/ 303d IMPAIRED WATERBODIES</b></p> <p>Is there a TMDL on the receiving water body? (I.3.C.4)</p> <ul style="list-style-type: none"> <li>• List the nearest S.C. DHEC Water Quality Monitoring Station (WQMS) that the site's stormwater discharges drain to and the waterbody on which it is located.</li> </ul>	
				<p>Is there an approved TMDL for this WQMS?</p> <p>Will the site's stormwater construction discharges contain the pollutant of impairment?</p> <p>If so, are measures and controls on SWPPP to meet assumptions and requirements of TMDL (may need to contact Watershed Manager for assistance)</p> <p>• Qualitative and quantitative assessment (described in Section 3.4C of SCR10000), if nearest WQMS listed on the 2004 303(d) List of Impaired Waters and if site's stormwater construction discharges contain the pollutant of impairment and if site disturbs 25 or more acres</p> <p>• Evaluation of selected BMPs if nearest WQMS listed on the 2004 303(d) List of Impaired Waters and if site's stormwater construction discharges contain the pollutant of impairment and if site disturbs less than 25 acres</p> <p>• Note: Contact Department staff for guidance on selection of BMPs based on pollutant of impairment.</p>	
				<p><b>23. NAVIGABLE WATERS</b></p>	

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				<ul style="list-style-type: none"> <li>Extra plan sheet showing impacts to navigable water and description of activity included if S.C. Navigable Waters (SCNW) crossing and separate SCNW permit has not been obtained for all activities</li> <li>Note: For NOIs initially submitted to delegated entities, if project has SCNW crossing and if separate SCNW permit has not been obtained for this crossing, then this item will be reviewed by S.C. DHEC before NPDES coverage will be granted.</li> </ul>	
				<b>24. OCRM REQUIREMENTS - NOT APPLICABLE</b>	
				<b>25. SITE PLANS CHECKLIST:</b>	
				<ul style="list-style-type: none"> <li>Note: The Department may require phased sediment and erosion control plans for large or complicated projects.</li> </ul>	
				<ul style="list-style-type: none"> <li>Location map with site outlined on first plan sheet (map should have enough detail to identify Surface Waters of the State within 1 mile of the site)</li> <li>North arrow and scale</li> <li>Property lines and adjacent landowners' names</li> <li>Legend</li> <li>Registered engineer's signed and dated seal</li> <li>Engineering Firm's Certificate of Authorization seal</li> <li>Existing and proposed contours for entire disturbed area</li> <li>Limits of disturbed area</li> <li>Locations of off-site material, waste, borrow, or construction equipment storage areas, excluding roll-off containers (Note: Some off-site disturbed areas may require a separate application for NPDES coverage )</li> <li>Location and identification of any stormwater discharges associated with industrial activity (not construction)</li> <li>Delineation of WoS, including wetlands (see checklist item 8)</li> <li>Easements</li> <li>Road profiles with existing and proposed ground elevations (if no contours are shown on the plans)</li> <li>Grassing and stabilization specifications (temporary and permanent)</li> </ul>	
				<ul style="list-style-type: none"> <li>Construction sequence (implementation of all stormwater and sediment controls in the first phase of construction; ensure that basins, traps, ponds, etc. can be installed before the area draining to them is cleared and grubbed)</li> <li>Standard notes (see following page)</li> <li>Temporary and permanent control measures (provide details of all sediment and erosion control measures used; make sure the label or legend on the plans matches the name on the detail)</li> </ul>	
				<p><i>Note: Maintenance requirements for each BMP should be listed on the detail.</i></p> <p><i>Note: If details from the BMP Handbook are used, then the inspection frequency must be changed to be in accordance with the new CGP (see Standard note 3).</i></p>	

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				<i>Please indicate the location and page number(s) where each item below can be found in your SWPPP or supporting calculations. If an item is not applicable, put N/A. Fort Jackson reserves the right to modify this checklist at any time.</i>
				<b>26. Standard Notes</b>
				<p>1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.</p> <p>2. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.</p> <p>➤ Where stabilization by the 14<sup>th</sup> day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.</p> <p>➤ Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the Site.</p> <p>3. All sediment and erosion control devices shall be inspected every seven (7) days. If site inspections identify BMPs that are damaged or are not operating effectively, maintenance must be performed as soon as practical or as reasonably possible and before the next storm event whenever practicable.</p> <p><b>OR</b></p> <p>All sediment and erosion control devices shall be inspected at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater. If site inspections identify BMPs that are damaged or are not operating effectively, maintenance must be performed as soon as practical or as reasonably possible and before the next storm event whenever practicable.</p> <p>4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove any sediments before being pumped back into any waters of the State.</p>

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				5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.	
				6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.	
				7. Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with S.C Reg. 72-300 et seq. and SCR100000.	
				8. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.	
				9. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.	
				10. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.	
				<b>27. Storm Water Pollution Prevention Plan (SWPPP)</b>	
				Are BMPs identified in the SWPPP covering the discharges from the support activity areas? (e.g.) concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow pits) (1.3.A.3 page 2) If land disturbance is > 2 acres, was the SWPPP prepared by a professional engineer, landscape architect, Tier B land surveyor, or federal government employee. (3.1, page 8)	
				Are all potential sources of pollution identified? (3.1.B.1, page 9) Does the SWPPP indicate the name of the Operator with day-to-day operational control? (3.2, page 10)	
				Are practices described that will be used to reduce pollutants? (3.1.B.2, page 9)	

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				Is a preconstruction conference with co-permittees and contractor referenced in the SWPPP? (3.2.A.5, page 9)	
				Does the SWPPP identify parties responsible for implementing control measures? (3.2.B.1)	
				Does the SWPPP indicate the parties with operational control over project specifications? (3.2.B.2)	
				Does the SWPPP indicate parties with Operational Control? (3.2.B.3)	
				Does the SWPPP contain all operators and areas over which each operator has control? (3.3.A.)	
				Does the SWPPP describe the nature of the construction activity? (3.3.B.)	
				Does the SWPPP contain the function of the project (low density residential, shopping mall, highway, etc)? (3.3.B.1)	
				What is the function of the project (low density residential, shopping mall, highway, etc)?	
				Does the SWPPP contain the intended sequence and timing of planned major activities that disturb soil? i.e. a construction sequence? (3.3.B.2)	
				Does the SWPPP contain the total area disturbed including off-site borrow and fill areas? (3.3.B.3)	
				Are off-site borrow and fill areas included in acreage? (3.3.B.3)	
				Does the SWPPP contain the general location map that identifies the construction site and surface waters within 1 mile of the site? (3.3.B.4)	
				Does the SWPPP contain a map showing direction of stormwater flow and approximate slopes after grading? (3.3.C.1)	
				Does the SWPPP contain a map showing areas disturbed and not disturbed? (3.3.C.2)	
				Does the SWPPP contain locations of structural or non-structural BMPs? (3.3.C.3)	
				Does the SWPPP contain a map showing locations where stabilization practices will occur? (3.3.C.4)	
				Does the SWPPP contain a map showing locations of off-site material, waste, Borrow. Pit construction, equipment storage? (3.3.C.4)	
				Does the SWPPP contain a map showing locations of all surface waters and wetlands? (3.3.C.6)	
				Does the SWPPP contain a map showing locations where stormwater discharges to a surface water? (3.3.C.7)	
				Does the SWPPP describe and identify the location of dedicated asphalt plants? (3.3.D)	
				Does the SWPPP describe and identify the location of dedicated concrete plants? (3.3.D)	
				Does the SWPPP include a description of all BMPs? (3.4.A)	
				Does the SWPPP include a construction sequence? (3.4.A)	
				Does the SWPPP include a schedule of when stabilization practices will be implemented? (3.4.A)	
				Does the SWPPP include which Operator is responsible for the control measure's implementation? (3.4.A)	
				Does the SWPPP include a description of interim and permanent stabilization practices? (3.4.B)	
				If so, what TMDL and which waterbody. (3.4.C)	

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				Does the SWPPP include a description of structural practices to divert flows from exposed soils, to retain/detain flows, or to otherwise limit runoff and the discharge of pollutants from exposed areas of the Site. Placement of structural practices in floodplains must be in accordance with applicable regulations. (3.4.E)	
				Does the SWPPP include a description of all post-construction storm water management measures that will be installed during the construction process to control pollutants in storm water discharges after construction operations have been completed? (3.4.F)	
				Does the SWPPP describe measures to prevent the discharge of building or other similar materials to Surface Waters of the State, except as authorized by a permit issued under section 404 of the CWA? (3.4.H)	
				Does the SWPPP describe measures to minimize, to the extent practicable, off-site vehicle tracking of sediments onto paved surfaces and the generation of dust? (3.4.I)	
				Does the SWPPP include a description of construction and waste materials expected to be stored on-site with updates as appropriate? (3.4.J)	
				Does the SWPPP include a description of controls, including storage practices such as roll-off containers, to minimize exposure of the materials to storm water, and spill prevention and response practices? (3.4.J.)	
				Does the SWPPP include a description of pollutant sources from areas other than construction (including storm water discharges from dedicated asphalt plants and dedicated concrete plants), and a description of controls and measures that will be implemented at those Sites to minimize pollutant discharges? (reference 3.4.K 2006 GP) (3.4.K)	
				Does the SWPPP identify all allowable sources of non-storm water discharges listed in Subpart 1.3.B of this permit, except for flows from fire fighting activities? (3.5 page 16)	
				Are BMPs identified for these allowed non-stormwater discharges? (3.5)	
				Are copies of this permit, the signed and certified NOI form, the Copermittee certifications required by Subpart 3.2.D, and, if applicable, any local approval included in the SWPPP. (3.8)	
				Is the construction inspection schedule indicated in the SWPPP? (3.10)	
				Does the SWPPP indicate who will be doing the inspections and what their qualifications are? (3.10.D)	

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				Which of the following will the inspector be? (3.10.D)	
				1. Preparer of SWPPP 2. Under direct supervision of preparer of SWPPP 3. Individual certified through Construction Site Inspector Certification Course 4. Person with a registration equivalent to SWPPP preparer. 5. Person under direct supervision of person with a registration equivalent to SWPPP preparer 6. For projects 2 acres or less, preparer of SWPPP (or equivalent registration) can explain SWPPP to an inspector.	
				If 10 or more acres are disturbed: (3.13.E)	
				1. Has a sediment basin been incorporated? 2. Does the sediment basin provide storage for a minimal 10-year, 24 hour storm event? 3. If there are no calculations, does the sediment basin have a minimum of 3,600 cubic feet of storage/acre drained? 4. Do not have to include drainage area that is diverted around the basin. 5. If a sediment basin is not possible, is a series of smaller sediment basins or traps utilized?	
				Is the site less than 10 acres? : (3.13.E.3)	
				1. Smaller sediment basins or traps should be used. 2. Silt fences, or other BMPs are required on all downslope boundaries unless a sediment basin is provided. 3. If no sediment basin is provided, each structural BMP must be designed for the drainage area it serves.	
				The SWPPP should be in a 3 ring binder and include the following sections:	