

**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS**

SWCD: _____

Project Name: _____

Address: _____

City/County: _____

Date on Plans: _____

Plan Page # Included Y/N

TO BE SHOWN ON ES&PC PLAN

1. The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
2. Level II certification number issued by the Commission, signature and seal of the certified design professional.
(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
3. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
4. Provide the name, address and phone number of primary permittee.
5. Note total and disturbed acreage of the project or phase under construction.
6. Provide land lot and district numbers for site location. Describe critical areas and any additional measures that will be utilized for these areas.
7. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
8. Graphic scale and north arrow.
9. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10
10. Boundary line survey.
11. Delineation and acreage of contributing drainage basins on the project site.
12. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
13. Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
14. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.
15. Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
16. Soil series for the project site and their delineation.
17. Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
18. Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.
19. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 18 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.
20. Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.
21. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
22. The limits of disturbance for each phase of construction.
23. Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.
(A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)
24. Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written rationale explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls.
25. Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs

as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.

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|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | 26. Best Management Practices to minimize off-site vehicle tracking of sediments and the generation of dust. |
| <input type="checkbox"/> | <input type="checkbox"/> | 27. BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. |
| <input type="checkbox"/> | <input type="checkbox"/> | 28. Provide BMPs for the remediation of all petroleum spills and leaks. |
| <input type="checkbox"/> | <input type="checkbox"/> | 29. Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend. |
| <input type="checkbox"/> | <input type="checkbox"/> | 30. Description of the nature of construction activity. |
| <input type="checkbox"/> | <input type="checkbox"/> | 31. A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. |
| <input type="checkbox"/> | <input type="checkbox"/> | 32. Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization). |
| <input type="checkbox"/> | <input type="checkbox"/> | 33. Description of the practices that will be used to reduce the pollutants in storm water discharges. |
| <input type="checkbox"/> | <input type="checkbox"/> | 34. Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. |
| <input type="checkbox"/> | <input type="checkbox"/> | 35. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 14 of the permit. |
| <input type="checkbox"/> | <input type="checkbox"/> | 36. Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 14 of the permit. |
| <input type="checkbox"/> | <input type="checkbox"/> | 37. Certification statement and signature of the permittee or the duly authorized representative as stated in section V.G.2.d. of the state general permit. |
| <input type="checkbox"/> | <input type="checkbox"/> | 38. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. |
| <input type="checkbox"/> | <input type="checkbox"/> | 39. Indication that non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wretched vegetation without first acquiring the necessary variances and permits. |
| <input type="checkbox"/> | <input type="checkbox"/> | 40. Indication that the design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation. |
| <input type="checkbox"/> | <input type="checkbox"/> | 41. Indication that amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional. |
| <input type="checkbox"/> | <input type="checkbox"/> | 42. Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit. |
| <input type="checkbox"/> | <input type="checkbox"/> | 43. Documentation that the ES&PC Plan is in compliance with waste disposal, sanitary sewer, or septic tank regulations during and after construction activities have been completed. |
| <input type="checkbox"/> | <input type="checkbox"/> | 44. Provide complete requirements of inspections and record keeping by the primary permittee. |
| <input type="checkbox"/> | <input type="checkbox"/> | 45. Provide complete requirements of sampling frequency and reporting of sampling results. |
| <input type="checkbox"/> | <input type="checkbox"/> | 46. Provide complete details for retention of records as per Part IV.F. of the permit. |
| <input type="checkbox"/> | <input type="checkbox"/> | 47. Description of analytical methods to be used to collect and analyze the samples from each location. |
| <input type="checkbox"/> | <input type="checkbox"/> | 48. Appendix B rationale for outfall sampling points where applicable. |
| <input type="checkbox"/> | <input type="checkbox"/> | 49. Clearly note statement in bold letters- "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." |
| <input type="checkbox"/> | <input type="checkbox"/> | 50. Clearly note maintenance statement in bold letters - "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source." |
| <input type="checkbox"/> | <input type="checkbox"/> | 51. Clearly note the statement in bold letters - "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." |
| <input type="checkbox"/> | <input type="checkbox"/> | 52. Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia. |
| <input type="checkbox"/> | <input type="checkbox"/> | 53. Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia. |

APPENDIX 1

THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

Plan Page #	Included Y/N	
<input type="checkbox"/>	<input type="checkbox"/>	a. During construction activities, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
<input type="checkbox"/>	<input type="checkbox"/>	b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
<input type="checkbox"/>	<input type="checkbox"/>	c. Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
<input type="checkbox"/>	<input type="checkbox"/>	d. Place a large sign (minimum 4 feet x 8 feet) on the site visible from the roadway identifying the construction site, the permittee(s), and the contact person(s) and telephone number(s).
<input type="checkbox"/>	<input type="checkbox"/>	e. Use anionic polyacrylamide (PAM) and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III. D.1. of the NPDES Permit GAR 100003.
<input type="checkbox"/>	<input type="checkbox"/>	f. Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Part IV.D.6.d. of the NPDES Permit GAR 100003.
<input type="checkbox"/>	<input type="checkbox"/>	g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
<input type="checkbox"/>	<input type="checkbox"/>	h. Limit the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations).
<input type="checkbox"/>	<input type="checkbox"/>	i. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less.
<input type="checkbox"/>	<input type="checkbox"/>	j. Use "Dirt II" techniques to model and manage storm water runoff (e.g., seep berms, sand filters, anionic Pam), available on the EPD website, www.gaepd.org .
<input type="checkbox"/>	<input type="checkbox"/>	k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
<input type="checkbox"/>	<input type="checkbox"/>	l. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever storm water may be discharged.
<input type="checkbox"/>	<input type="checkbox"/>	m. Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1.
<input type="checkbox"/>	<input type="checkbox"/>	n. Use appropriate erosion control matting or blankets instead of concrete in construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event.
<input type="checkbox"/>	<input type="checkbox"/>	o. Use anionic PAM under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
<input type="checkbox"/>	<input type="checkbox"/>	p. Install sod for a minimum 20 foot width, in lieu of seeding, along the site perimeter wherever storm water may be discharged.
<input type="checkbox"/>	<input type="checkbox"/>	q. Use a surface draining skimmer designed to drain temporary sediment basins and retrofitted storm water management basins over a minimum three (3) day period.
<input type="checkbox"/>	<input type="checkbox"/>	r. Certified personnel shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(2). (a) - (c), Part IV.D.4.b.(3). (a) - (c) or Part IV.D.4.c.(2). (a) - (c) of the NPDES Permit GAR_100003, as applicable.
<input type="checkbox"/>	<input type="checkbox"/>	s. Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
<input type="checkbox"/>	<input type="checkbox"/>	t. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the State Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at www.gaswcc.org)

Effective January 1, 2009

GSWCC Guidance Document for Alternative BMPs

Permit Erosion and Sedimentation Controls:

Use of alternative BMPs whose performance has been documented to be equivalent or superior to conventional BMPs as certified by a Design Professional may be allowed (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission).

Required Documentation for Alternative BMPs:

1. One page summary detailing why the alternative BMP is equivalent or superior to the conventional BMPs found in the "Manual for Erosion and Sedimentation Control in Georgia" (Manual).
2. Documented side by side testing (alternative BMP vs. conventional BMP) using the appropriate design requirements and specifications contained in the Manual.
3. Proof that the alternative BMP was previously installed and worked under conditions comparable to the environmental conditions of the proposed site. This can be documented with photographs.
4. All specifications including the design requirements and the procedures for proper installation and maintenance.

All forms of documentation must be signed and certified by the Design Professional who is preparing the ES&PC Plan and must include the Design Professional's seal and GSWCC Design Professional certification.

ES&PC Plan

When an ES&PC Plan has been reviewed by the GSWCC, EPD or a Local Issuing Authority (LIA) with a Memorandum of Agreement (MOA) to review ES&PC Plans, the following statement must be on the plan review sheet:

The use of the alternative BMP for _____ (type of BMP, e.g., silt fence Sd1) has been reviewed and has been determined to be allowable only for this ES&PC Plan. This review was site-specific based on the documentation submitted and certified by the Design Professional and required by the Georgia Environmental Protection Division and the Georgia Soil and Water Conservation Commission.

FAQ: Frequently Asked Questions

Q: If replacing a conventional BMP with an alternative BMP on a previously approved set of ES&PC Plans, does the Design Professional have to resubmit the ES&PC Plans?

A: Yes, the Design Professional must resubmit the ES&PC Plans with the required alternative BMP documentation.

Q: What is meant by equivalent or superior to the conventional BMP found in the Manual?

A: Based on documentation that side by side testing has been conducted under comparable site conditions using the appropriate design requirements and specifications contained in the Manual: The alternative BMP is just as effective in its purpose and meets the same criteria as the conventional BMP in the Manual, OR its effectiveness exceeds those in the Manual for its purpose and meets or exceeds the criteria for the conventional BMP in the Manual for which it is designed to replace.

Q: What if a LIA with MOA wants to deny an alternative BMP?

A: The LIA with the MOA must forward the ES&PC Plan with the required alternative BMP documentation to the GSWCC (Urban Program).

NOTE: In jurisdictions where there is no LIA, the alternative BMP documentation must be submitted to EPD. In jurisdictions where there is a LIA, the alternative BMP documentation must be submitted to the GSWCC. Upon receiving the alternative BMP documentation, the GSWCC and EPD will work together to make the call of disapproval. This will improve communication and ensure coordination throughout the review process.