

MONITORING SAMPLING METHODS & PROCEDURES

See Special Provision 167 and other contract documents for Monitoring Sampling Methods and Procedures.

READY MIX CHUTE WASH-DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of portland cement concrete is prohibited on this site. In accordance with standard Specification 107 - Legal Regulations and Responsibility to the Public, only the discharge "chute" utilized in portland cement concrete delivery may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelway, including shoulders, for a wash/pit area. The pit shall be large enough to store all wash-down water without overtopping the pit. Immediately After the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above shall be graded to match the elevation of the surrounding areas smoothed out. Alternate wash down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down water pit location that includes the following: (1) the pit is located away from a storm drain, stream or river, (2) the pit is accessible to the vehicle being used for wash-down, (3) the pit has enough volume for wash-down water, and (4) make sure you have permission to use the area for wash-down. On some sites, you may not have permission or access to a location which allows for a wash-down pit. In those cases, the Contractor may have to wash-down into a wheelbarrow or other container and carry the container for transport to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide For Ready Mix Chute/Hopper Wash-down".

STREAM/POND BUFFER ENCROACHMENT

Stream/Pond Buffers are impacted by this project.

The Contractor is not authorized to enter into stream/pond buffers, except as described in the table below:

Name (name or number of feature)	Location of Buffered Streams and State Waters **			Stream Type (Warm/Cold Water) *	Buffer Impacted? (Yes/No)	Buffer Variance Required?
	Alignment	Begin Sta (Lt or Rt)	Ending Sta (Lt or Rt)			
Stream 33	SR 316	1238+50, Lt	1243+30, Rt	Warm	Yes	No
Extension of 7'x7' concrete box culvert.						
Stream 34	SR 316	1242+70, Lt	1248+80, Lt	Warm	Yes	Yes
Construction of proposed concrete flume and SR 316 pavement, and extension of 18" cross-drains.						
Stream 34A	SR 316	1246+80, Lt	1251+90, Rt	Warm	Yes	Yes
Construction of proposed 36 inch cross-drain, and construction of SR 316, collector-distributor and ramp pavement.						
Stream 36A	SR 316	1277+70, Lt	1278+20, Lt	Warm	Yes	Yes
Construction of proposed 42 inch cross-drain, and construction of proposed ramp pavement.						
Stream 36	SR 316	1279+00, Lt	1284+80, Rt	Warm	Yes	Yes
Construction of proposed 48 inch cross-drain, and construction of SR 316, collector-distributor, and ramp pavement. Construction of proposed Park Access Drive pavement, storm drains and pipe.						
Stream 38	SR 316	1281+70, Lt	1292+00, Rt	Warm	Yes	Yes
Construction of proposed 42 inch and 48 inch cross-drain, and construction of SR 316, collector-distributor, and ramp pavement. Construction of proposed Lightning Access Drive pavement.						
Stream 39	SR 316	1279+90, Lt	1297+00, Lt	Warm	Yes	Yes
Construction of concrete channel and proposed ramp pavement.						
Stream 40	SR 316	1295+50, Lt	1296+30, Lt	Warm	Yes	Yes
Temporary Impact due to construction of detour.						
Stream 42	SR 316	1315+20, Lt	1320+20, Lt	Warm	Yes	Yes
Construction of proposed 18 inch and 42 inch cross-drain, and construction of SR 316 and ramp pavement.						
Stream 43	SR 316	1334+20, Lt	1342+10, Rt	Warm	No	No
No proposed construction.						
Pond 36D	Lendon Conn.	23+00, Both	26+40, Both	Warm	Yes	Yes
Construction of 7'x7' concrete box culvert, concrete flumes, and Lendon Connector and ramp pavement.						

* Warm water streams have a 25-foot minimum buffer as measured from the wrested vegetation. Cold Water streams have a 50-foot buffer as measured from the wrested vegetation.

** Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets.

*** Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

INFRASTRUCTURE CONSTRUCTION PROJECTS

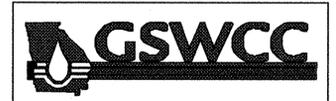
SWCD: Gwinnett County

Project Name: SR 316 From Collins Hill Rd To Hi-Hope Rd Address: _____

City/County: Gwinnett County Date on Plans: _____

TO BE SHOWN ON ES&PC PLAN

Plan Page*	Included Y/N	Description	Plan Page	Included Y/N	Description
5F02	Y	1. The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission of January 1 of the year in which the land-disturbing activity was permitted.	5F02	Y	29. 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.
5F01	Y	2. Level II certification number issued by the Commission, signature and seal of the certified design professional.	5F01	Y	30. 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 BMP's, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
5F03	N	3. The name and phone number of 24-hour local contact responsible for erosion, sedimentation and pollution controls. (To Be Filled Out By Contractor)	5F01	Y	31. Description of practices used to reduce the pollutants in storm water discharges.
5F03	Y	4. Provide name, address and phone number of primary permittee.	5F01	Y	32. 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.
53-XX	Y	5. Note total and disturbed acreage of the project or phase under construction.	5F01	Y	33. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated in page 15 of the permit.
5F01	Y	6. Provide land lot and district numbers for site location. Describe critical areas and any additional measures that will be utilized for these areas.	5F01	Y	34. Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMP's and sampling to meet permit requirements as stated on page 14 of permit.
5F01	Y	7. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.	5F01	Y	35. 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.
53-XX	Y	8. Graphic scale and north arrow.	5F01	Y	36. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
5F01	Y & N	9. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: - Existing Contours: USGS 1" = 2000' topographical sheets (YES) - Proposed Contours: 1" = 400' centerline profile (Cross-Sections Included Instead)	5F01	Y	37. Indication that non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits.
53-XX	Y	10. Delineation and acreage of contributing drainage basins on the project site.	53-XX	Y	38. Indication that the design professional who prepared the ES&PC Plan is to inspect the initial sediment storage requirements and perimeter control BMP's within 7 days after installation.
53-XX	Y	11. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.	5F01	Y	39. Indication that amendments/revisions to the ES&PC Plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional.
53-XX	Y	12. Delineation of 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.	5F01	Y	40. Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.
5F01	Y	13. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.	5F01	Y	41. 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.
53-XX	Y	14. Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/delineate all storm water discharge points.	5F01	Y	42. Provide complete requirements of inspections and record keeping by the primary permittee.
5F01	Y	15. Soil series for the project site and their delineation.	5F01	Y	43. Provide complete requirements of sampling frequency and reporting of sampling results.
53-XX	Y	16. Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.	5F01	Y	44. Provide complete details for retention of records per Part IV.F of the permit.
N/A	N/A	17. 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 I listing all the BMP's that will be used for those areas of the site which discharge to the Impaired Stream Segment.	5F01	Y	45. Description of analytical methods to be used to collect and analyze the samples from each location.
N/A	N/A	18. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 17 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.	5F02	Y	46. Appendix B rationale for outfall sampling points where applicable.
5F01	Y	19. Delineate on-site drainage and off-site watersheds using USGS 1" = 2000' topographical sheets.	5F01	Y	47. 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."
5F01	Y	20. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.	5F01	Y	48. 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."
5F-XX	Y	21. The limits of disturbance for each phase of construction.	5F01	Y	49. 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."
5F01	Y	22. 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 BMP's and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls.	5F01 to 5F07	Y	50. 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.
N/A	N/A	23. Use of alternate BMP's whose performance has been documented to be equivalent to or superior to conventional BMP's as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission).	5F01	Y	51. 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.
5F01	Y	24. Best Management Practices to minimize off-site vehicle tracking of sediments and the generation of dust.			
5F02	Y	25. BMP's 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.			
5F01	Y	26. Provide BMP's for the remediation of all petroleum spills and leaks.			
5F-XX	Y	27. 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.			
5F01	Y	28. Description of the nature of construction activity.			



Revised January 2011



REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY
ESPC GENERAL NOTES

SR 316

DRAWING No. 51-02