

SAMPLING GENERAL NOTES

33 Representative sampling may be utilized on this project as explained here. The individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the average slope about the outfall, and the soil erosion index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the table below.

34

Note: The Total site area is 43.60 acres.

SAMPLING INFORMATION										Representative Sampling Scheme					
Primary Sampled Feature	Location (Station and Offset)	Name of Receiving Water	Applicable Construction Stage for Sampling	Sampling Type (Outfall or Receiving water)	Drainage Area for Receiving Water (mi ²)	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (Outfall Sampling only)	Allowable NTU Increase (Receiving water sampling only)	Location Description	OUTFALL CHARACTERISTICS				
											Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Represented Outfall Drainage Basins
1	301+50, LT	Long Cane Creek	All	Outfall	0.1405	N/A	Warm	50	N/A	187 LT	Culvert	20.04	0.003	0.32	1
2	15+15, RT	Long Cane Creek	All	Outfall	0.0111	N/A	Warm	50	N/A	105 RT	Roadabout Construction	1.70	0.006	0.32	2
3	15+55, LT	Long Cane Creek	All	Outfall	0.0300	N/A	Warm	50	N/A	200 LT	Roadabout Construction	2.45	0.017	0.32	3

The primary sampled features specified should be used as the initial sampling locations. An alternate sampled feature may be used if additional sampling is required or to replace a primary sampled feature that is no longer located within the active phase of construction.

SOIL SERIES INFORMATION

47 THE FOLLOWING IS A SUMMARY OF THE SOILS THAT ARE EXPECTED TO BE FOUND ON THE PROJECT SITE.

Map Unit Symbol	Map Unit Name	Rating	Component Name (Percent)	Acer in AOI	Percent of AOI
Akb	Altavista fine sandy loam, 2 to 6 percent slopes	Not Rated	Altavista (100%)	0.9	1.7%
CFD2	Cecil sandy clay loam, 10 to 15 percent slopes, moderately eroded	Not Rated	Cecil (100%)	14.3	26.9%
GwC2	Gwinnett sandy clay loam, 6 to 10 percent slopes, eroded	Not Rated	Gwinnett (100%)	18.5	34.6%
RK	Riverview-Chewacla association	Not Rated	Riverview (55%) Chewacla (40%) Roanoke (5%)	19.6	36.8%
Totals for Area of Interest				53.3	100.0%

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>.

24 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 the delivery of Portland cement concrete 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 travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overflowing. 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 it shall be graded to match the elevation of the surrounding areas. 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 pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container 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".

31 WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

See Special Provision 167 and other contract documents for the inspecting and sampling procedures.

STATE-WATER BUFFER IMPACTS

- 16 State-water buffers, as defined by O.C.G.A. 12-7-1, are impacted by this project.
- 15 Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point wested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

The Contractor is not authorized to enter state-water buffers, except as described in the table below:

Name or Number of Stream or Other Water Body Type	Location of Buffered Stream and State Water**			Stream Type (Warm/Cold Water)**	Buffer Variance Required? (Yes/No)
	Roadway Alignment	Begin Station and Offset	End Station and Offset		
LONG CANE CREEK-STREAM PS 1	SR 18	STA 10+19, LT	STA 13+10, LT	Warm	No
LONG CANE CREEK-STREAM PS 1	SB ENTRANCE RAMP	STA 402+25, LT	STA 403+35, LT	Warm	No
LONG CANE CREEK-STREAM PS 1	SB ENTRANCE RAMP	STA 301+17, LT	STA 301+77, LT	Warm	No

The contractor is allowed to extend the culvert on left side of SB Entrance Ramp

Unless noted otherwise, utility companies will be submitting the required permits/variances in conjunction with the impacts caused by their activities. If utility impacts are covered by the Department's state-water buffer variance, this shall be noted in the buffer-variance-required column.

*Locations are approximate, detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets.
**Warm water fisheries have a 25-foot minimum buffer as measured from the wested vegetation. Trout (cold water) streams have a 50-foot buffer as measured from the wested vegetation.

CHANNEL PROTECTION

All channels may be stabilized exclusively with permanent grassing except as noted otherwise in the table below.

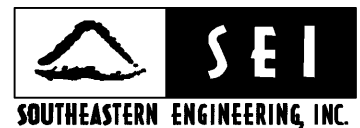
Begin Station and Offset	End Station and Offset	Q ₂₅ (ft ³ /s)	V ₂₅ (ft/s)	Type of Channel Lining	Channel Bottom Width (ft)	Depth of Protection Dp (ft)	Quantity (yd ²)
49+64	46+20	3.5	3.03	TRM-1	4.0	0.34	396.06
205+50	203+68	11.1	3.33	TRM-1	4.0	0.83	209.50
200+00	203+68	2.3	1.96	TRM-1	4.0	0.42	423.20
200+00	203+68	1.1	1.71	TRM-1	4.0	0.26	423.20
203+68	40+00	9.8	3.49	TRM-1	4.0	0.71	690.00
49+64	45+00	7.8	4.15	TRM-1	4.0	0.48	533.60
45+00	41+50	2.7	2.20	TRM-1	4.0	0.42	402.50
41+00	36+00	5.8	2.76	TRM-1	4.0	0.61	575.00
35+50	36+00	1.8	2.09	TRM-1	4.0	0.31	57.50
34+50	30+50	3.2	2.42	TRM-1	4.0	0.43	460.00
35+50	23+25	10.9	3.86	TRM-1	4.0	0.68	1408.75
603+00	601+25	1.8	1.28	TRM-1	4.0	0.55	96.60
512+50	508+00	11.4	5.07	TRM-1	4.0	0.52	147.78
20+82	21+44	0.1	0.65	TRM-1	4.0	0.13	89.36
17+75	18+16	1.0	2.26	TRM-1	4.0	0.15	54.05
18+52	18+16	0.1	0.52	TRM-1	4.0	0.18	42.90
17+80	17+16	4.0	3.89	TRM-1	4.0	0.28	96.03

REVISION DATES

ESPCP GENERAL NOTES

1-85 @ SR 18 & SR 18 @ SR 103

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	51-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



NTS