

**SAMPLING GENERAL NOTES:**

The Total Site Size is 109.20 acres. 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 disturbed acreage, 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 below 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.

SAMPLING INFORMATION											OUTFALL CHARACTERISTICS				
Primary Monitored Feature	Location (Sta. and offset)	Name of Receiving water.	Applicable Construction Stage for Monitoring	Sampling Type (outfall or receiving water)	Drainage Area for the receiving water (sq. mi)	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (outfall monitoring only)	Allowable NTU Increase (for receiving water)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (rise/run)	Soil Erosion Index	Alternate Outfall Drainage Basins
4' FBD 142+60 RT RIVERWATCH PARKWAY	142+60 96.35' RT	STREAM 2B - REED CREEK TRIBUTARY	1,1A	OUTFALL	0.01	N/A	WARM	50	N/A	4' FBD	NEW LOCATION FILL	<1	<3%	>5	E9 24" PIPE RIVERWATCH PARKWAY STA 151+30 140.60' LT 18" PIPE UNDER CONNOR DR STA 5+90 62' CONNECT TO EXISTING LYWOOD DRIVE STA 150+40 18' RT
A53 18" PIPE CONNECT TO EXISTING WASHINGTON RD	13+80 41.80' LT	STREAM 4 - REED CREEK TRIBUTARY	1	OUTFALL	0.02	N/A	WARM	50	N/A	STRUCTURE A49	WIDENING	<1	<3%	>5	A45A 24" CONNECT TO EXISTING WASHINGTON ROAD STA 24+85 81.58' LT A9 42" PIPE WASHINGTON ROAD STA 31+30 102.38' RT
2' FBD 102+40 LT RIVERWATCH PARKWAY	102+40 110.63' LT	STREAM 4 - REED CREEK TRIBUTARY	1	OUTFALL	0.02	N/A	WARM	50	N/A	2' FBD	NEW LOCATION FILL	<1	>3%	>5	N/A
A42 18" PIPE WASHINGTON ROAD	24+39.18 108.63' RT	STREAM 4 - REED CREEK TRIBUTARY	1	OUTFALL	0.02	N/A	WARM	50	N/A	STRUCTURE A42	WIDENING	<1	>3%	>5	4' FBD WASHINGTON ROAD STA 13+33 46.08' RT A44A 18" CONNECT TO EXISTING WASHINGTON ROAD STA 24+15 67.71' LT EXISTING DITCH END BLUE RIDGE DRIVE STA 69+70 27.80' RT
2' FBD 120+20 LT RIVERWATCH PARKWAY	120+20 109' LT	STREAM 3 - REED CREEK TRIBUTARY	1	OUTFALL	0.09	N/A	WARM	50	N/A	2' FBD	NEW LOCATION FILL	1-2	<3%	>5	N/A
A44 30" PIPE OLD EVANS ROAD	53+40 70.41' LT	REED CREEK	2A	OUTFALL	6.51	N/A	WARM	50	N/A	STRUCTURE A44	NEW LOCATION FILL	1-2	>3%	>5	A59 MANHOLE CONNECT TO PROPOSED CULVERT RIVERWATCH PARKWAY STA 102+00 53' RT
C46 36" PIPE RIVERWATCH PARKWAY	149+29.57 78.52' LT	STREAM 2A - REED CREEK TRIBUTARY	1,2,2A	OUTFALL	0.04	N/A	WARM	50	N/A	STRUCTURE C46	NEW LOCATION FILL	>2	<3%	>5	A70 JB CONNECT TO EXISTING JAMAICA COURT STA 32+00 17.20' LT A15A 30" PIPE RIVERWATCH PARKWAY STA 141+30 76.11' RT B27A 48" PIPE RIVERWATCH PARKWAY STA 26+90 92' LT EXISTING DITCH END COLUMBIA INDUSTRIAL BLVD STA 49+50 31.68' RT
B27A 48" PIPE RIVERWATCH PARKWAY	206+88 92' LT	STREAM 1 - REED CREEK TRIBUTARY	2P	OUTFALL	0.91	N/A	WARM	50	N/A	END OF 48" PIPE	NEW LOCATION FILL	>2	<3%	>5	N/A
A120 24" PIPE RIVERWATCH PARKWAY	142+42.75 88.84' LT	REED CREEK	1,1A,2A	OUTFALL	6.51	N/A	WARM	50	N/A	STRUCTURE A120	NEW LOCATION FILL	>2	>3%	>5	4' FBD RIVERWATCH PARKWAY STA 121+50 148.40' RT 4' FBD RIVERWATCH PARKWAY STA 133+70 100' LT D9 MH CONNECT TO EXISTING RIVERWATCH PARKWAY STA 167+50 66.28' LT 8" SWALE RIVERWATCH PARKWAY STA 206+30 173.60' LT 42" PIPE WASHINGTON ROAD 30+35 162.78' RT

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.

**INSPECTING AND SAMPLING PROCEDURES**

See Special Provision 167 and other contract documents for the Inspecting and Sampling Procedures.

**STREAM AND OPEN-WATER BUFFER ENCROACHMENTS**

Stream Buffers, as defined by O.C.G.A. 12-7-1, are impacted by this project.

The contractor is not authorized to enter into stream 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)	End Sta (Lt or Rt)			
STREAM 1	RIVERWATCH PKWY	205+75 RT	207+09 LT	WARM	YES	NO
Describe the Allowable activities and/or restrictions within the buffer and approximate location of Impacts. CULVERT REMOVAL, CULVERT CONSTRUCTION, EROSION CONTROL MEASURES, GUARDRAIL INSTALLATION, ROADWAY FILL EMBANKMENT						
STREAM 1A	RIVERWATCH PKWY	205+17 RT	205+75 RT	WARM	YES	NO
Describe the Allowable activities and/or restrictions within the buffer and approximate location of Impacts. DRIVEWAY RECONSTRUCTION, DRIVEWAY PIPE INSTALLATION, EROSION CONTROL MEASURES						
STREAM 2	RIVERWATCH PKWY	141+40 LT	142+40 LT	WARM	YES	NO
Describe the Allowable activities and/or restrictions within the buffer and approximate location of Impacts. CULVERT REMOVAL, BRIDGE CONSTRUCTION, ROAD EMBANKMENT REMOVAL, BRIDGE CONSTRUCTION, RIP RAP FOR OUTLET STABILIZATION						
STREAM 2A	RIVERWATCH PKWY	151+05 LT	151+50 LT	WARM	YES	NO
Describe the Allowable activities and/or restrictions within the buffer and approximate location of Impacts. PIPE CONSTRUCTION, RIP RAP FOR OUTLET STABILIZATION						
STREAM 2B	RIVERWATCH PKWY	142+16 RT	142+84 RT	WARM	YES	NO
Describe the Allowable activities and/or restrictions within the buffer and approximate location of Impacts. BRIDGE CONSTRUCTION, BRIDGE ENDROLL CONSTRUCTION, DITCH CONSTRUCTION						
STREAM 3	RIVERWATCH PKWY	120+20 LT	121+65 RT	WARM	YES	NO
Describe the Allowable activities and/or restrictions within the buffer and approximate location of Impacts. BRIDGE CONSTRUCTION, DITCH INSTALLATION WITH RIP RAP LINING						
STREAM 4	WASHINGTON RD	30+15 RT	30+50 RT	WARM	YES	NO
Describe the Allowable activities and/or restrictions within the buffer and approximate location of Impacts. PIPE INSTALLATION, EROSION CONTROL MEASURES						
STREAM 4	RIVERWATCH PKWY	101+60 LT	102+51 LT	WARM	YES	NO
Describe the Allowable activities and/or restrictions within the buffer and approximate location of Impacts. CULVERT CONSTRUCTION, ROAD/FILL EMBANKMENT, EROSION CONTROL MEASURES						
OPEN WATER 3A	RIVERWATCH PKWY	118+40 RT	119+20 RT	WARM	YES	YES
Describe the Allowable activities and/or restrictions within the buffer and approximate location of Impacts. DRIVEWAY RECONSTRUCTION, EROSION CONTROL MEASURES						

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



REVISION DATES 10-23-13 12-3-13	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: ROADWAY DESIGN <b>ESPC GENERAL NOTES</b>  P. I. No. 250470 COLUMBIA COUNTY
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USE ON CONSTRUCTION