

STREAM AND OPEN WATER BUFFER ENCROACHMENT

Stream Buffers, as defined by O.C.G.A. 12-7-1, are not impacted by this project. The contractor is not authorized to enter into stream buffers.

TEMPORARY SEDIMENT BASIN DETAILS:

Sediment storage will not be utilized on this project in the form of sediment basins due to the highly urbanized nature of the project, total drainage area and ability of alternate devices to adequately capture sediment. Land disturbance activities associated with constructing and removing a sediment basin in this area would cause additional adverse impacts.

Outfalls 124+30 To 159+71 Lt, 138+14 To 159+71 Rt, 159+71 To 186+97 Lt, 159+71 To 186+97 Rt, 186+97 To 234+00 Lt, 186+00 To 234+00 Rt, 234+00 To 326+53 Lt, 234+00 To 326+53 Rt, 326+53 To 402+61 Lt, 326+53 To 402+61 Rt, 402+61 To 353+55 Lt, 402+61 To 353+18 Rt, 443+92 To 448+10 Rt, 359+46 To 361+74 Rt, 373+00 To 375+71 Rt. Type C silt fence were placed at these outfalls. The use of a sediment basin was looked into for providing the amount of sediment storage required. However, in addition to difficulties associated with property impacts, the environmental disturbances associated with the installation, maintenance and removal of sediment basins in this location would outweigh the benefits of using them. BMP's as shown on the plans will include type C silt fence. If installed and maintained these measures will prevent sediment runoff from the site.

SAMPLING GENERAL NOTES:

The total site size is 161.84 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 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					
Sampled Feature	Primary or Alternate Feature	Location (Sta. and offset)	Name of Receiving water	Applicable construction stage for sampling	Sampling Type (Outfall or Receiving Water)	Drainage Area for the receiving water (sq. mi)	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 (Similar Outfalls)
1	Primary	124+23.60 369.23' LT	PEACHTREE CREEK	ALL	Outfall	38.60	Warm	50		Inside an exist. Drop Inlet	2 foot wide trenching for ATMS Installation	0.07	0.0050	7.5	DI - D8
2	Primary	351+69.88 134.56' RT	NANCY CREEK	ALL	Outfall	21.90	Warm	50		Inside an exist. Drop Inlet	2 foot wide trenching for ATMS Installation	0.11	0.0050	7.5	D9 - D15
3	Primary	341+48.52 227.71' LT	NANCY CREEK	ALL	Outfall	21.90	Warm	50		Inside an exist. Drop Inlet	2 foot wide trenching for ATMS Installation	0.07	0.5000	7.5	D9 - D15
4	Primary	353+19.86 115.29' LT	NANCY CREEK	ALL	Outfall	21.90	Warm	50		Inside an exist. Drop Inlet	2 foot wide trenching for ATMS Installation	0.12	0.5000	7.5	D9 - D15
5	Primary	356+23.68 79.87' LT	NANCY CREEK	ALL	Outfall	21.90	Warm	50		Inside an exist. Drop Inlet	2 foot wide trenching for ATMS Installation	0.02	0.5000	7.5	D9 - D15

(Note that outfall sampling requires one sample per event while receiving-water sampling requires a pair of samples, one sample upstream and one sample downstream, per event for comparison. The italicized example information in the table represents the minimum number of sampled features for representative sampling and is to be replaced with site-specific information. Alternate sampled features are optional. According to the EPD, additional sampling sites may be required depending on significant changes during the project. Determine the representative sampling scheme by using the Representative Sampling Database for GDOT Internal use on the R.O.A.D.S. webpage under Design Policies and Guidelines in the ESPCP box Internal Representative Sampling Database. For consultants, use the external database External Representative Sampling Database. Alternatively, determine the scheme by hand.)

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.

 GSWCC LEVEL II Certification #0000007827	<h1>ATKINS</h1>	REVISION DATES <table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td><td> </td></tr> </table>				STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: PROGRAM DELIVERY ESPC GENERAL NOTES
DRAWING No. 51-003						