

DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES:

The method used to collect and analyze the water samples shall be in accordance with the following procedures:

- All samples shall be grab samples.
- Analysis of samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved), the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.
- Sample containers should be labeled prior to collecting the samples.
- Samples should be well mixed before transferring to a secondary container.
- Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.
- Manual or automatic sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. Samples are not required to be cooled. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter.
- Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in the permit must be reported to EPD as specified in Part IV.E of the permit.
- The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity but downstream of any other storm water discharges not associated with the permitted activity.
- The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity but upstream of any other storm water discharge not associated with the permitted activity.
- Samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).
- Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.
- The sampling container should be held so that the opening faces upstream.
- The samples should be kept free from floating debris.

Deviations from these methods and procedures shall be documented by the primary permittee.

Sampling must be done in such a way as to accurately reflect whether storm water runoff from the site is in compliance with the standard set forth in the permit.

Measurement of rainfall must be recorded daily (once each twenty-four hour period) at the site.

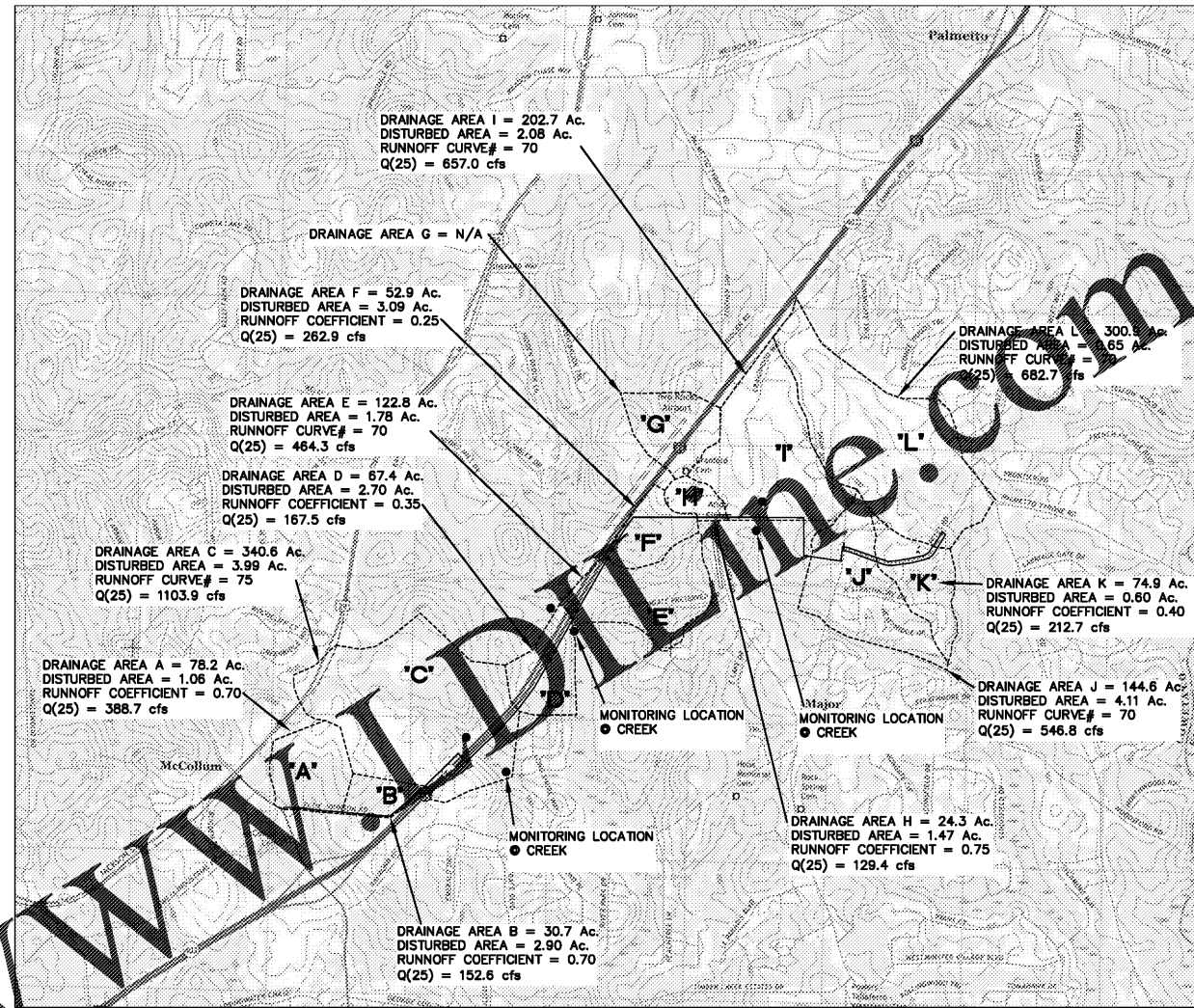
The primary permittee must sample all perennial and intermittent streams and other water bodies or all outfalls into such streams and other water bodies as indicated on the map referenced in the permit.

For infrastructure construction projects, monitoring obligations shall cease for any phase of the project that has been stabilized in accordance with Part IV.D.6.c.(1).(g).

NTU MATRIX VALUE

The proposed development has a surface water drainage area of 2.25 sq.m which is between 0-4.99 square miles and a site size (24.44 ac.) between 10.0-25.00 acres. See table below.

Surface Water Drainage Area, square miles	0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-199.99	200-499.99	500-999.99	1000-2499.99	2500-4999.99	5000-9999.99
0-4.99	150	150	150	150	150	150	150	150	150	150	150
5-9.99	150	150	150	150	150	150	150	150	150	150	150
10-24.99	150	150	150	150	150	150	150	150	150	150	150
25-49.99	150	150	150	150	150	150	150	150	150	150	150
50-99.99	150	150	150	150	150	150	150	150	150	150	150
100-199.99	150	150	150	150	150	150	150	150	150	150	150
200-499.99	150	150	150	150	150	150	150	150	150	150	150
500-999.99	150	150	150	150	150	150	150	150	150	150	150
1000-2499.99	150	150	150	150	150	150	150	150	150	150	150
2500-4999.99	150	150	150	150	150	150	150	150	150	150	150
5000-9999.99	150	150	150	150	150	150	150	150	150	150	150



WATERSHED, SITE MONITORING LOCATIONS AND DRAINAGE AREA MAP

SCALE: 1" = 2000'

SAMPLING POINTS

For this project a multiple representative outfalls will be sampled for the Linear Sanitary Sewer construction in accordance with current NPDES General Permit No. GAR 100002.

The project is located in the north west of the City of Newnan in Coweta County GA as indicated on the location map and plan sheets. There are (11) outfall areas for this project and together they have a combined total drainage area of 1,440.0 acres. The runoff from the project drains to Shoal Creek and several of its tributaries and Little Creek and several of its tributaries.

Drainage Basin (Ac)	Disturbed Area (Ac)	Monitoring Station location
"A" = 78.2 (0.12 SQ. MI.)	1.06	N/A
"B" = 30.7 (0.05 SQ. MI.)	2.90	N/A
"C" = 340.6 (0.53 SQ. MI.)	3.99	STA. 55+38 (NORTHGATE P.S. F.M.)
"D" = 67.4 (0.11 SQ. MI.)	2.70	STA. 94+00 (NORTHGATE P.S. F.M.)
"E" = 122.8 (0.19 SQ. MI.)	1.78	N/A
"F" = 52.9 (0.08 SQ. MI.)	3.09	N/A
"G" = N/A	N/A	N/A
"H" = 24.3 (0.04 SQ. MI.)	1.47	N/A
"I" = 202.7 (0.32 SQ. MI.)	2.08	STA. 55+42 (PETE RD. P.S F.M.)
"J" = 144.6 (0.23 SQ. MI.)	4.11	N/A
"K" = 74.9 (0.12 SQ. MI.)	0.61	N/A
"L" = 300.9 (0.47 SQ. MI.)	0.65	N/A
TOTAL	24.44	

The aforementioned tributaries are continuously flowing streams. The (3) THREE sampling locations are representative for the project.

The sampling location for the disturbed drainage basin above shall be monitored concurrent with land disturbance/clearing. Sampling is required during construction and until all disturbed areas are stabilized. Stabilization shall mean at least 70% of the disturbed soil surface is uniformly covered in permanent vegetation or equivalent permanent stabilization measures (such as the use of rip rap, gabions, permanent mulches or geotextiles) have been employed.

Note: Monitors shall be located 50 l.f. up and downstream of station called out on this plan or as directed by the engineer and/or Georgia EPD. A total of (6) SIX monitors shall be installed for this project. The NTU change allowed for this project is 50 between up and downstream sample points.



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ISSUE DATE	DATE
PRELIMINARY	08.15.2019
75% SUBMITTAL	10.01.2019
BID READY	10.18.2019
DRAWN BY:	DS
CHECKED BY:	CB

NORTHGATE HIGH SCHOOL
SANITARY SEWER
COWETA COUNTY WATER AND SEWERAGE AUTHORITY
CATL190025



WATERSHED MAP, DRAINAGE AREA & MONITORING LOCATIONS

C.35
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