



PROJECT NO. 8.1442601		ID. U-0620		COUNTY CUMBERLAND		GEOLOGIST Charles Ray							
SITE DESCRIPTION Bridge on Hope Mills Bypass (-L-) over Beaver Creek							GROUND WATER (ft)						
BORING NO. EB2-A		BORING LOCATION 32+69		OFFSET 41ft LT		ALIGNMENT -L-		0 HR. 7.8					
COLLAR ELEV. 126.4 ft		NORTHING 455,985		EASTING 2,006,470				24 HR. 9.0					
TOTAL DEPTH 39.5 ft		DRILL MACHINE D-50		DRILL METHOD Mud Rotary		HAMMER TYPE Manual							
DATE STARTED 6/26/01		COMPLETED 6/26/01		SURFACE WATER DEPTH									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
126.4	0.0												Ground Surface
123.4	3.0	2	8	13								M	Brown, tan, orange, moderately sorted, SILTY, v.f. to cse. SAND with trace gravels. ROADWAY EMBANKMENT
118.4	8.0	5	4	6								SS-17	
113.4	13.0	25	50/2									LOST CIRCULATION	Gray, moderately sorted, f. to cse. SAND. Wood frags. in sample at elevation 118.4ft. ALLUVIUM
108.4	18.0	10	16	18								SS-18	
103.4	23.0	6	8	14								SS-19	
98.4	28.0	7	9	9								SS-20	Tan, dark to light gray, SILTY/CLAYEY, v.f. to cse. SAND with interbedded SANDY CLAY layers. Trace gravels at elevation 103.4ft. CAPE FEAR FORMATION
93.4	33.0	10	15	19								SS-21	
88.4	38.0	4	8	9								SS-22	
		7	12	15								SS-23	Dark gray, SILTY CLAY with f. to f./cse. qtz. sand grains. Boring Terminated at Elevation 86.9 ft in dark gray, SILTY CLAY with f. to f./cse. qtz. sand grains. Cape Fear Formation



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SITE DESCRIPTION Bridge on Hope Mills Bypass (-L-) over Beaver Creek							GROUND WATER (ft)						
BORING NO. EB2-C		BORING LOCATION 32+82		OFFSET 14ft LT		ALIGNMENT -L-		0 HR. 7.9					
COLLAR ELEV. 124.9 ft		NORTHING 455,956		EASTING 2,006,463				24 HR. FIAD					
TOTAL DEPTH 49.3 ft		DRILL MACHINE D-50		DRILL METHOD Mud Rotary		HAMMER TYPE Manual							
DATE STARTED 6/26/01		COMPLETED 6/26/01		SURFACE WATER DEPTH									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
124.9	0.0												Ground Surface
121.9	3.0	2	4	6								M	Brown, SILTY, v.f. to f./cse. SAND with trace gravels. ROADWAY EMBANKMENT
116.9	8.0	2	1	4								M	
111.9	13.0	WOH	3	7								Sat.	Gray, moderately sorted, v.f. to f./cse. SAND. Grades into a f. to v. cse. SAND with gravels up to 4mm. ALLUVIUM
106.9	18.0	5	10	9								Sat.	
101.9	23.0	5	13	12								Sat.	Light gray, SILTY/CLAYEY, v.f. to cse. SAND with gravels up to 3mm. Gravel decreases with depth. CAPE FEAR FORMATION
96.9	28.0	7	8	15								Sat.	
91.9	33.0	9	11	13								M	Light gray, SILTY/CLAYEY, v.f. to cse. SAND w/trace mica.
86.9	38.0	8	7	7								M	
81.9	43.0	5	8	11								M	Gray, SILTY, v.f. to f./cse. SANDY CLAY. No return from sample at elevation 86.9ft..
76.9	48.0	9	20	25								M	
		18	40	60/3								M	Boring Terminated at Elevation 75.6 ft in gray, SILTY, v.f. to f./cse. SANDY CLAY. Cape Fear Formation