



PROJECT NO. 8.1442601		ID. U-0620		COUNTY CUMBERLAND		GEOLOGIST Steve Hudson									
SITE DESCRIPTION Bridge on Hope Mills Bypass (-L-) over Beaver Creek							GROUND WATER (ft)								
BORING NO. EB2-B		BORING LOCATION 33+13		OFFSET 55ft RT		ALIGNMENT -L-									
COLLAR ELEV. 121.3 ft		NORTHING 455,883		EASTING 2,006,446		0 HR. 3.4									
TOTAL DEPTH 49.0 ft		DRILL MACHINE CME45B ATV		DRILL METHOD HSA & Mud Rotary		HAMMER TYPE Manual									
DATE STARTED 6/21/01		COMPLETED 6/25/01		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		
121.3	0.0				Ground Surface								121.3	0.00	
116.8	4.5	2	1	1								M			
112.8	8.5	1	5	11								W		Tan to brown, moderately sorted, SILTY, v.f. to f. SAND. Grades into a well sorted, f. to f./cse. SAND. Wood frags. from elevation 112.8 to 111.8ft.. ALLUVIUM	
108.8	12.5	6	5	6								Sat.		111.8	9.5
103.8	17.5	5	9	10								LOST CIRCULATION		110.3	11.0
98.8	22.5	5	7	11								M		Gray to light gray, CLAYEY, f. to f./cse. SAND with trace cse. grained well rounded qtz. pebbles and micas. (cohesive) Grades to subangular to angular grains with less cohesive material. CAPE FEAR FORMATION	
93.8	27.5	4	8	10								M			
88.8	32.5	7	10	8								W			
83.8	37.5	6	8	9								D		Brown, well sorted SILTY CLAY with trace v.f. to f. sand and low plasticity.	
78.8	42.5	12	24	43								M		Gray to light gray, red and yellow brown mottling, moderate to well sorted, v.f. to f. grained, SANDY CLAY with trace silt and slight lamination.	
73.8	47.5	18	23	45								M			
		23	43	56								M		Light gray, moderate to well sorted, SILTY v.f. to f. SAND w/trace to minor silts.	
														Boring Terminated at Elevation 72.3 ft in light gray, moderate to well sorted, SILTY v.f. to f. SAND w/trace to minor silts. Cape Fear Formation	