



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. B2-C		BORING LOCATION 32+59		OFFSET 0ft CL		ALIGNMENT -L-							
COLLAR ELEV. 122.0 ft		NORTHING 455,959		EASTING 2,006,437		0 HR. 5.7							
TOTAL DEPTH 37.0 ft		DRILL MACHINE CME45B ATV		DRILL METHOD HSA & 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
122.0	0.0												Ground Surface
		2	5	4								D	Tan to brown, f. to f./cse. SAND with silt and root frags. (topsoil)
117.3	4.7												Dark brown, well sorted SILT with clay. Organic odor.
		WOH	2	6									ALLUVIUM
111.5	10.5												
		9	14	16								Sat.	Gray, yellow tan, well sorted, f. to cse. SAND with lenses of well rounded to sub angular gravel from elevation 110.7 to 110.3 and 105.7 and 105.5.
106.5	15.5												Organic fragments w/sand
		7	13	17								Sat.	
101.5	20.5											SS-15	
		7	8	12								Sat.	Light tan to light white gray, CLAYEY, f. to f./cse. SAND with weathered relic LS. clasts. CAPE FEAR FORMATION
96.5	25.5											SS-16	
		10	14	15								W	
91.5	30.5											W	
		7	11	15								W	
86.5	35.5											W	
		10	10	16								W	
													Boring Terminated at Elevation 85.0 ft in light white gray, CLAYEY, f. to f./cse. SAND w/weathered relic clasts. Cape Fear Formation



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. B2-B		BORING LOCATION 32+75		OFFSET 55ft RT		ALIGNMENT -L-							
COLLAR ELEV. 121.7 ft		NORTHING 455,907		EASTING 2,006,416		0 HR. 6.0							
TOTAL DEPTH 51.5 ft		DRILL MACHINE CME45B ATV		DRILL METHOD HSA & Mud Rotary		HAMMER TYPE Manual							
DATE STARTED 6/20/01		COMPLETED 6/20/01		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
121.7	0.0												Ground Surface
		1	3	4								M	Tan, brown, gray, well sorted, SILTY, v.f. to f. SAND. ALLUVIUM
117.2	4.5												Black SILT. Little to mod. organic.
		WOH	WOH	WOH									LOST CIRCULATION
111.7	10.0											Sat.	Gray, brown, well sorted, f. to f./cse. SAND with gravels up to 4mm in size. Gravels are subangular to well rounded.
106.7	15.0											Sat.	
		5	5	10								Sat.	
101.7	20.0											Sat.	Light gray, SILTY, v.f. to f./cse. CLAYEY SAND with mica and interbedded sandy clay layers. (v.sev. weathered LS.) CAPE FEAR FORMATION
		5	5	6								Sat.	
96.7	25.0											Sat.	
		4	6	8								Sat.	
91.7	30.0											Sat.	
		5	6	8								Sat.	
86.7	35.0											M	
		6	7	8								M	
81.7	40.0											M	Dark gray to light gray, light green, SILTY CLAY with trace fine grain SAND. Grades into a v.f. to f./cse. SANDY CLAY.
		13	19	21								M	
76.7	45.0											M	
		23	25	29								M	
71.7	50.0											M	
		30	45	45								M	
													Boring Terminated at Elevation 70.2 ft in light green/light gray, SILTY, v.f. to f./cse. SANDY CLAY. Cape Fear Formation

NCDOT BORE DOUBLE 201-075 GEL NC DOT GDT 8/15/01