



PROJECT NO. 8.T311002		ID. R-2552AB		COUNTY Johnston		GEOLOGIST M. Lear										
SITE DESCRIPTION Site 1: Dual Structures on Clayton bypass (-L-) over White Oak Creek (Austin pond)							GROUND WATER (m)									
BORING NO. B7-B RL		BORING LOCATION 41+76.4		OFFSET 20.3m RT		ALIGNMENT -L-										
COLLAR ELEV. 58.94 m		NORTHING 208,398.5		EASTING 652,996.0		0 HR. 0.2										
TOTAL DEPTH 19.19 m		DRILL MACHINE CME-45/buggy		DRILL METHOD Rotary Wash/Mud/Core		HAMMER TYPE 63.5 kg manual										
DATE STARTED 9/4/01		COMPLETED 9/5/01		SURFACE WATER DEPTH N/A												
ELEV. (m)	DEPTH (m)	BLOW COUNT			BLOWS PER 30 CM					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION				
		15cm	15cm	15cm	0	20	40	60	80				100			
58.94	0.00	1	2	2								58.94	0.00	W	Alluvium: Brown, slightly clayey SILT (A-4) with roots and wood fragments	
57.59	1.35	1	1	1								58.34	0.60	W	Alluvium: Gray, slightly sandy, silty, CLAY (A-6) with roots	
56.20	2.74	8	8	8								56.44	2.50	Sat.	Alluvium: Brown, slightly clayey, silty, sandy rounded quartz GRAVEL (A-1-b)	
54.59	4.35	3	4	5								55.54	3.40	Sat.	Residual: Tan, brown, and green, micaceous, slightly sandy, clayey SILT (A-4) with relict rock fabric	
53.08	5.86	5	11	14										Sat.		
51.52	7.42	8	12	15										W		
49.99	8.95	9	17	29										M		
48.55	10.39	50/0cm			50/0cm								48.94	10.00		Soft Weathered Rock: Granite (not sampled)
													48.55	10.39		No Recovery/Penetration-Interpreted as Hard Weathered Rock: Granite
													48.23	10.71		Hard Rock: Pink and gray, coarse grained, slightly weathered to fresh, extremely fractured to sound, hard to very hard pegmatitic Granite (5 joints at 80-90° with clay and mica, 3 joints at 45° with mica; extremely fractured zones with partial recovery from 10.71m to 11.60m, 11.98m to 12.48m, and 13.56m to 13.95m with vertical fractures)
													44.75	14.19		Hard Rock: Pink and gray, medium to coarse grained, slightly weathered to fresh, moderately fractured to sound, hard to very hard Granite (3 joints at 90° with clay; 1 joint at 50°; 1 joint at 70°)
													43.40	15.54		Hard Rock: Pink and gray, fine to medium grained, slightly weathered to fresh, extremely to moderately fractured, hard Granite (5 joints at 80-90° with clay; 7 joints at 50-60° with clay; 8 joints at 20-30° with clay)
													41.75	17.19		Hard Rock: Pink and gray, fine to medium grained, slightly weathered to fresh, moderately fractured to sound, hard to very hard Granite (13 joints at 50-60° with clay; 3 joints at 20-30°)

NCDOT BORE SINGLE BORELOG2.GPJ NC DOT.GDT 12/5/01



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		15cm	15cm	15cm	0	20	40	60	80				100			
39.94					Continued from previous page											
													39.75	19.19		Boring terminated at 19.19m (Elev. 39.75m) in Hard Rock: Granite
																Bit used: 7.6cm roller cone and NQ core bit
																Drilling Fluid: Water and 1.03g/cm ³
																Boring offset 1.5m LT (along bent) of proposed location

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