



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-A LL		BORING LOCATION 41+33.5		OFFSET 21.6m LT		ALIGNMENT -L-							
COLLAR ELEV. 58.58 m		NORTHING 208,453.3		EASTING 652,971.6		0 HR. 0.05							
TOTAL DEPTH 14.31 m		DRILL MACHINE CME-45/buggy		DRILL METHOD Rotary Wash/NQ Core		HAMMER TYPE 63.5 kg manual							
DATE STARTED 8/14/01		COMPLETED 8/15/01		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
58.58	0.00	WOH	1	1								58.58	Alluvium: Gray CLAY (A-6) with roots
57.18	1.40		3	2									Residual: Brown, clayey, silty, SAND (A-2-4) with relict rock fabric
55.68	2.90		5	9									Residual: Brown, clayey, silty, SAND (A-2-4) with relict rock fabric
54.14	4.44		5	24									Residual: Brown, clayey, silty, SAND (A-2-4) with relict rock fabric
52.71	5.87		70	30/2cm									Soft Weathered Rock: Granite
51.19	7.39		50/2cm										Hard Rock: Green and white, fine to medium grained, moderately weathered, moderately fractured to sound, moderately hard Granite (1 joint at 70° with clay)
													Hard Rock: Green, white, and pink, fine to medium grained, moderately to slightly weathered, moderately fractured to sound, moderately hard to hard Granite (3 joints at 50° with clay and white mica; 1 joint at 90° with clay)
													Hard Rock: Gray, pink, and white, fine to medium grained, very slightly weathered to fresh, moderately fractured to sound, hard to very hard Granite with weak foliation (1 joint at 60° with biotite and white mica; 2 joints at 50° with clay and Fe-oxide stain; 2 joints at 35° with Fe-oxide stain; 7 joints at 20-30° with trace clay; 3 joints at 10-15°)
													Boring terminated at 14.31m (Elev: 44.27m) in Hard Rock: Granite

NCDOT BORE SINGLE BORELOG2.GPJ NC DOT.GDT 10/16/01



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TOTAL DEPTH 14.31 m		DRILL MACHINE CME-45/buggy		DRILL METHOD Rotary Wash/NQ Core		HAMMER TYPE 63.5 kg manual				
DATE STARTED 8/14/01		COMPLETED 8/15/01		SURFACE WATER DEPTH N/A						
ELEV. (m)	DEPTH (m)	RUN (m)	DRILL RATE (Min/0.3m)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 7.41 m
51.17	7.41	0.90	2:02	(0.58)	(0.24)		(0.41)	(0.21)		Hard Rock: Green and white, fine to medium grained, moderately weathered, moderately fractured to sound, moderately hard Granite (1 joint at 70° with clay)
50.27	8.31	1.50	1:24	64%	27%		100%	51%		No Recovery-Interpreted as Hard Weathered Rock: Granite
			1:54				(0.00)	(N/A)		
			2:46	(1.50)	(0.73)		0%	(0.48)		Hard Rock: Green, white, and pink, fine to medium grained, moderately to slightly weathered, moderately fractured to sound, moderately hard to hard Granite (3 joints at 50° with clay and white mica; 1 joint at 90° with clay)
			2:22	100%	49%		(1.44)	33%		No Recovery-Interpreted as Hard Weathered Rock: Granite
			2:44				100%			
			4:05							
48.77	9.81		4:59				(4.68)	(3.97)		Hard Rock: Gray, pink, and white, fine to medium grained, very slightly weathered to fresh, moderately fractured to sound, hard to very hard Granite with weak foliation (1 joint at 60° with biotite and white mica; 2 joints at 50° with clay and Fe-oxide stain; 2 joints at 35° with Fe-oxide stain; 7 joints at 20-30° with trace clay; 3 joints at 10-15°)
			10:48	(1.50)	(1.37)		99%	84%		
			7:57	100%	91%					
			7:46							
			7:03							
			6:46							
47.27	11.31		10:04	(0.50)	(0.18)					
			5:51/0.23	94%	34%					
			2:20/0.07	(0.95)	(0.49)					
			6:00	98%	51%					
			4:43							
			4:21	(0.84)	(0.84)					
			9:42	100%	100%					
			6:36							
44.93	13.65		3:51/0.24	(0.66)	(0.66)					
			1:01/0.06	100%	100%					
			2:55							
			5:21							
44.27	14.31									Coring terminated at 14.31m (Elev: 44.27m) in Hard Rock: Granite

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