



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 24 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	
CORE SIZE NQ	TOTAL RUN 8.80 m	DRILLER D. White	

ELEV. (m)	DEPTH (m)	RUN (m)	DRILL RATE (m/0.3m)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (m) %	RQD (m) %		REC. (m) %	RQD (m) %		
										Begin Coring @ 10.39 m
48.55	10.39	0.80	4:41	(0.48)	(0.00)		(0.00)	(N/A)		No Recovery/Penetration-Interpreted as Hard Weathered Rock: Granite
47.75	11.19		4:17	60%	0%		0%	(1.08)		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)
		1.50	2:38/0.20	(0.91)	(0.56)		(2.89)	83%		
			2:45	61%	37%					
46.25	12.69		3:45							
		1.50	2:47							
			3:34							
44.75	14.19		4:03	(1.50)	(0.52)					
		1.50	5:21	100%	35%					
			5:53							
			5:21							
			6:15							
43.40	15.54		3:01	(1.35)	(0.41)		(1.35)	(0.41)		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°)
		1.35	5:02	100%	30%		100%	30%		
			6:01							
			6:20							
41.75	17.19		5:13/0.15	(1.65)	(0.00)		(1.65)	(0.00)		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)
		1.65	8:02	100%	0%		100%	0%		
			5:55							
			5:48							
			5:44							
			4:40							
40.25	18.69		3:16/0.15	(1.50)	(0.91)		(2.00)	(1.23)		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°)
		1.50	5:50	100%	61%		100%	62%		
			6:13							
			5:58							
			4:36							
			5:26							
39.75	19.19		8:20	(0.50)	(0.32)					
		0.50	4:40/0.20	100%	64%					
										Coring terminated at 19.19m (Elev: 39.75m) in Hard Rock: Granite

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