N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

SHEET 1 OF 1

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. B1-A RL	**BORING LOCATION** 40+18.7	**OFFSET** 8.7m RT	**ALIGNMENT** -L-
COLLAR ELEV. 58.89 m	**NORTHING** 208,463.9	**EASTING** 652,853.1	
TOTAL DEPTH 15.03 m	**DRILL MACHINE** CME-45/buggy	**DRILL METHOD** Rotary Wash/Mud	**HAMMER TYPE** 63.5 kg manual
DATE STARTED 8/24/01	**COMPLETED** 8/24/01	**SURFACE WATER DEPTH** N/A	

GROUND WATER (m)	
0 HR.	0.15
24 HR.	0.22

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	BLOWS PER 30 CM (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
58.89									
58.89	0.00	WOH	1	1	2		Sat.		Alluvium: Brown and gray CLAY (A-6) with roots (58.89 / 0.00)
58.09	0.80								Alluvium: Gray, slightly silty, fine SAND (A-3)
57.59	1.30	1	2	2	4				
56.19	2.70								Alluvium: Black, rounded diabase rock fragment GRAVEL (A-1-a)
56.12	2.77	27	17	16	33		Sat.		
55.59	3.30								Residual: Tan, orange, white, and green, slightly clayey, silty, fine to coarse SAND (A-2-4) with relict rock fabric
54.54	4.35	9	22	32	54		W		
53.00	5.89	19	35	50	85		W		
51.48	7.41	23	45	42	87		W		
49.99	8.90	19	29	28	57		W		
48.89	10.00								Soft Weathered Rock: Granite
48.47	10.42	45	55/13cm		100/28cm				
46.95	11.94	43	57/12cm		100/27cm				
45.43	13.46	100/8cm			100/8cm				
44.29	14.60								No Recovery-Interpreted as Hard Weathered Rock: Granite
43.91	14.98	100/5cm			100/5cm				
43.86	15.03								Boring terminated at SPT refusal at 15.03m (Elev: 43.86m) in Hard Weathered Rock: Granite

Bit used: 7.6cm roller cone

Drilling Fluid: Water and 1.04g/cm^3

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

N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

SHEET NO.	TOTAL SHEETS
74	107

SHEET 1 OF 1

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. B1-B RL	**BORING LOCATION** 40+25.9	**OFFSET** 21.9m RT	**ALIGNMENT** -L-
COLLAR ELEV. 60.59 m	**NORTHING** 208,449.1	**EASTING** 652,855.6	
TOTAL DEPTH 14.06 m	**DRILL MACHINE** CME-45/buggy	**DRILL METHOD** Rotary Wash/Mud	**HAMMER TYPE** 63.5 kg manual
DATE STARTED 8/9/01	**COMPLETED** 8/10/01	**SURFACE WATER DEPTH** N/A	

GROUND WATER (m)	
0 HR.	0.25
24 HR.	0.47

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	BLOWS PER 30 CM (0 20 40 60 80 100)	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
60.59									
60.59	0.00	WOH	WOH	WOH	WOH		Sat.		Alluvium: Gray, slightly sandy CLAY (A-6) with roots (60.59 / 0.00)
60.09	0.50								Alluvium: Gray, clayey, fine sandy SILT (A-4) with gravel-sized rock fragments (diabase)
59.36	1.23	4	9	5	14	SS-10	Sat.		
58.09	2.50								Alluvium: Black, sandy, rounded, diabase rock fragment GRAVEL (A-1-a)
57.85	2.74	17	16	7	23		Sat.		
57.39	3.20								Residual: Brown, slightly sandy, clayey SILT (A-4) with relict rock fabric and gravel-sized rock fragments (diabase)
56.31	4.28	10	27	12	39		W		
54.79	5.80	20	14	28	42		W		
54.09	6.50								Residual: Brown, slightly clayey, silty, fine to coarse SAND (A-2-4) with relict rock fabric
53.12	7.47	12	15	16	31		W		
52.09	8.50								Soft Weathered Rock: Granite
51.75	8.84	14	51	49/9cm	100/24cm				
50.22	10.37	35	65/8cm		100/23cm				
48.70	11.89	85	15/2cm		100/17cm				
47.20	13.39	92	8/1cm		100/16cm				
46.60	13.99	100/7cm			100/7cm				
46.53	14.06								Boring terminated at 14.06m (Elev: 46.53m) in Soft Weathered Rock: Granite

Bit used: 7.6cm roller cone

Drilling Fluid: Water and 1.02 g/cm^3

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