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

PROJECT NO. 8.2312601		ID. B-3865		COUNTY Johnston		GEOLOGIST C. Baldwin								
SITE DESCRIPTION Bridge No. 212 over the Little River on SR 1002						GROUND WATER (ft)								
BORING NO. B1-A		BORING LOCATION 20+43		OFFSET 11' Lt.		ALIGNMENT -L-								
COLLAR ELEV. 103.6 ft		NORTHING 631,540		EASTING 2,254,670		0 HR. N/A**								
TOTAL DEPTH 27.6 ft		DRILL MACHINE CME 55 Track		DRILL METHOD 2.25" ID HSA/NQ3 Core		HAMMER TYPE Automatic								
DATE STARTED 6/24/03		COMPLETED 6/25/03		SURFACE WATER DEPTH N/A										
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100
103.6ft														Ground Surface
	0.0	1	1	1							SS-14	13.8%		103.6ft
	3.5													101.1ft
	WOH	1	2								SS-15	22.5%		2.5ft
	8.5													94.6ft
	12	60/0.3'												9.0ft
											RS-1			10.6ft
														93.0ft
														9.0ft
														76.0ft
														27.6ft

Coring terminated at elev. 76.0 feet in NON-CRYSTALLINE ROCK (FELSIC METAVOLCANIC).

Notes:  
 1) Geologist indicates strata break in split spoon at 9.0'.  
 2) Coring began at 9.6'.  
 \*\* 0 hr. water level not measured due to water introduced for coring.

CORE BORING REPORT							DATE: 06/24-25/2003
PROJECT: 8.2312601		I.D. NO.: B-3865		BORING NO.: B1-A		GEOLOGIST: Chris Baldwin	
DESCRIPTION: Bridge No. 212 over Little River on SR 1002						SENIOR DRILLER: J.W. Gilchrist, Jr.	
COUNTY: Johnston			COLLAR ELEVATION: 103.6 ft		TOTAL DEPTH: 27.6 ft		DRILLING ASSISTANT: M.W. Renza
Elev. (ft)	Depth (ft)	Drill Rate min./ft	Run Length (ft)	REC (%)	RQD (%)	Sample #	FIELD CLASSIFICATION AND REMARKS
94.0	9.6	5:40	3.0	2.4/3.0	N/A		WR-9.6-10.6 ft Gray, severely weathered, moderately hard Felsic Metavolcanic Rock Very close to close fracture spacing. STRATA REC.=40% STRATA BREAK STRATA RQD=N/A 2 joints at 40° 94.0 ft (9.6 ft)
		5:45		80%			
		5:50					
91.0	12.6	5:55	5.0	5.0/5.0	4.3/5.0		NCR-10.6-27.6 ft Gray, slightly weathered, hard Felsic Metavolcanic Rock Close to wide fracture spacing.
		5:59		100%	86%	RS-1	RS-1 15.0-15.3 ft qu=10,073 psi STRATA REC.=100% STRATA RQD=87%
		6:01					3 joints at 30° 5 joints at 40° 4 joints at 50° 1 joint at 60°
		5:59					
		6:00					
86.0	17.6	5:59	5.0	5.0/5.0	5.0/5.0		RS-2 19.7-20.0 ft qu=22,338 psi
		6:01		100%	100%	RS-2	
		5:57					
		5:58					
		5:57					
81.0	22.6	5:54	5.0	5.0/5.0	4.5/5.0		
		5:49		100%	90%		
		5:51					
		5:55					
		5:55					
76.0	27.6						Coring terminated at Elevation 76.0 ft

DRILLING EQUIPMENT:  
 CME - 55 Track Rig with automatic hammer.  
 HOLE ADVANCEMENT:  
 1. HSA from 0.0 - 9.3 feet using 2.25" hollow stem augers.  
 2. Casing w/ advancer set at 9.6 feet.  
 3. Cored using NQ3 w/SICB and a Series 6 diamond impregnated bit from 9.6 - 27.6 feet.  
 4. Drilling Fluid: Water

NOTES:

NCDOT\_BORE B-3. JFJ NCDOT.GDT 8/20/03