



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

SHEET 1 OF 1

PROJECT NO. 8.2407901		ID. B-3704		COUNTY Wake		GEOLOGIST D. Goodnight								
SITE DESCRIPTION Br. 108 over Lower Barton's Cr. on SR 1834 (Norwood Rd.)							GROUND WATER (ft)							
BORING NO. B1-B (Revised)		BORING LOCATION 16+70.0		OFFSET 8.0 ft RT	ALIGNMENT -L-		0 HR. 3.00							
COLLAR ELEV. 269.50 ft		NORTHING 798591.12		EASTING 2100692.81			24 HR. 6.80							
TOTAL DEPTH 25.60 ft		DRILL MACHINE Truck CME 55		DRILL METHOD Advanced Casing		HAMMER TYPE 140 lb. Manual								
DATE STARTED 10/8/03		COMPLETED 10/8/03		SURFACE WATER DEPTH NA										
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
269.5	0.0	1	1	2										269.5 0.00
266.0	3.5										SS-1	M		Alluvial: Very Loose, Brown, Silty, Coarse to Fine SAND (A-2-4)
263.5	6.0	2	3	8							SS-2	M		Residual: Stiff, Brown, Micaceous, Saprolitic, Coarse to Fine Sandy SILT (A-4)
		100/3												265.0 4.5 264.0 5.5 263.2 6.3 261.2 8.3 259.6 9.9 255.2 14.3 251.9 17.6 247.4 22.1 246.2 23.3 243.9 25.6
														Weathered Rock: Gray, Biotite Schist Crystalline Rock: Moderately to Slightly Weathered, Moderately Hard, Gray, Biotite Schist with Moderately Close Fracture Spacing Crystalline Rock: Moderate to Moderately Severely Weathered, Medium Hard, Gray and Brown, Biotite Schist with Close Fracture Spacing Crystalline Rock: Medium to Slightly Weathered, Moderately Hard, Gray, Biotite Schist with Close to Moderately Close Fracture Spacing Weathered Rock: Moderately Severely to Severely Weathered, Soft to Medium Hard, Gray and Brown, Biotite Schist with Close Fracture Spacing Crystalline Rock: Moderately to Slightly Weathered, Moderately Hard to Hard, Gray, Biotite Schist with No Fractures Coring Terminated at 25.6 feet (Elev. 243.9) in Crystalline Rock (Biotite Schist)
Drilling Fluid Properties: Water														



SHEET 17 OF 35
N.C.D.O.T. GEOTECHNICAL UNIT
CORE BORING REPORT

SHEET 1 OF 1

PROJECT NO. 8.2407901		ID. B-3704		COUNTY Wake		GEOLOGIST D. Goodnight				
SITE DESCRIPTION Br. 108 over Lower Barton's Cr. on SR 1834 (Norwood Rd.)							GROUND WATER (ft)			
BORING NO. B1-B (Revised)		BORING LOCATION 16+70.0		OFFSET 8.0 ft RT	ALIGNMENT -L-		0 HR. 3.00			
COLLAR ELEV. 269.50 ft		NORTHING 798591.12		EASTING 2100692.81			24 HR. 6.80			
TOTAL DEPTH 25.60 ft		DRILL MACHINE Truck CME 55		DRILL METHOD Advanced Casing		HAMMER TYPE 140 lb. Manual				
DATE STARTED 10/8/03		COMPLETED 10/8/03		SURFACE WATER DEPTH NA						
CORE SIZE HQ		TOTAL RUN 19.3 ft		DRILLER B. Shull						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 6.3 ft
263.2	6.3	4.3	4:15 4:19 3:29 3:10	(4.3) 100%	(2.6) 60%		(2.0) 100%	(1.5) 75%		263.2 Crystalline Rock: Moderately to Slightly Weathered, Moderately Hard, Gray, Biotite Schist with Moderately Close Fracture Spacing 6.3 261.2 8.3
258.9	10.6	5.0	1:54/0.3 3:39 3:10 3:11	(5.0) 100%	(4.2) 84%		(1.6) 100%	(0.4) 25%		259.6 All Breaks are Mechanical 9.9 Crystalline Rock: Moderately to Moderately Severely Weathered, Medium Hard, Gray and Brown, Biotite Schist with Close Fracture Spacing
253.9	15.6	5.0	2:45 3:52 2:25 2:18 3:29	(3.8) 76%	(2.8) 56%		(4.4) 100%	(4.1) 93%		255.2 2 joints at 0-5° 1 joint at 20° Several Mechanical Breaks 14.3 Crystalline Rock: Medium to Slightly Weathered, Moderately Hard, Gray, Biotite Schist with Close to Moderately Close Fracture Spacing
248.9	20.6	5.0	2:57 3:29 4:04 4:11 4:02 4:34 4:37	(4.2) 84%	(3.8) 76%		(2.1) 64%	(0.8) 24%		251.9 2 joints at 0-5° 1 joint at 10° with Iron Staining on joint Surfaces 17.6 Crystalline Rock: Moderately to Slightly Weathered, Moderately Hard, Gray, Biotite Schist with Close to Moderately Close Fracture Spacing
243.9	25.6						(4.5) 100%	(4.3) 96%		247.4 2 joints at 0-5° 1 joint at 10° with Iron Staining on joint Surfaces 22.1 246.2 Weathered Rock: Moderately Severe to Severely Weathered, Soft to Medium Hard, Gray and Brown, Biotite Schist with Close Fracture Spacing 23.3 243.9 Crystalline Rock Zone at 14.8-15.6 feet 25.6 1 joint at 45° Several Mechanical Breaks Core Loss at 15.6-16.8 feet Crystalline Rock: Moderately to Slightly Weathered, Moderately Hard to Hard, Gray, Biotite Schist with Moderately Close Fracture Spacing Weathered Rock Zone at 19.1-19.5 feet Weathered Rock: Severely Weathered, Soft, Brown, Biotite Schist with Very Close Fracture Spacing Numerous joints at 0-5° Core Loss at 22.2-23.0 feet Crystalline Rock: Moderately to Slightly Weathered, Moderately Hard to Hard, Gray, Biotite Schist with No Fractures Coring Terminated at 25.6 feet (Elev. 243.9) in Crystalline Rock (Biotite Schist)
Drilling Fluid Properties: Water										

NCDOT BORE SINGLE 07103015.GPJ NC DOT.GDT 10/16/03

NCDOT BORE SINGLE CRCPY015.GPJ NC DOT.GDT 10/16/03