



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. B2-A		BORING LOCATION 17+30.0		OFFSET 10.0 ft LT		ALIGNMENT -L-							
COLLAR ELEV. 264.80 ft		NORTHING 798558.70		EASTING 2100746.49		0 HR. 2.00							
TOTAL DEPTH 36.00 ft		DRILL MACHINE Truck CME 55		DRILL METHOD Advanced Casing		HAMMER TYPE 140 lb. Manual							
DATE STARTED 6/25/03		COMPLETED 6/25/03		SURFACE WATER DEPTH NA									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
264.8	0.0	9	10	11									264.8 0.00
261.7	3.1	2	2	2							SS-6	M	261.8 3.0
256.7	8.1	25	43	14							SS-7		258.8 6.0
254.3	10.5	60	40/0								SS-8	W	254.8 10.0
248.8	16.0	100/4											249.5 15.3
245.4	19.4										RS-5		248.0 16.8
240.0	24.8										RS-6		239.3 25.5
													236.7 28.1
													228.8 36.0
Coring Terminated at 36.0 feet (Elev. 228.8) in Crystalline Rock (Gray, Biotite Schist)													
Drilling Fluid Properties: Water													

NCDOT BORE SINGLE 07103015.GPJ NC_DOT.GDT 10/15/03



SHEET 23 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. B2-A		BORING LOCATION 17+30.0		OFFSET 10.0 ft LT		ALIGNMENT -L-				
COLLAR ELEV. 264.80 ft		NORTHING 789558.70		EASTING 2100746.49		0 HR. 2.00				
TOTAL DEPTH 36.00 ft		DRILL MACHINE Truck CME 55		DRILL METHOD Advanced Casing		HAMMER TYPE 140 lb. Manual				
DATE STARTED 6/25/03		COMPLETED 6/25/03		SURFACE WATER DEPTH NA						
CORE SIZE HQ		TOTAL RUN 24.6 ft		DRILLER C. Heun						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 11.0 ft
253.8	11.0	5.0	2:02 1:36 1:36 1:29 1:02	(4.5) 90%	(4.3) 86%		(4.3) 100%	(4.3) 100%		253.8 Crystalline Rock: Slightly Weathered, Moderately Hard, Gray, Biotite Schist and Gneiss with No Joints 11.0
248.8	16.0						(0.2) 13%	(0.0) 0%		249.5 Weathered Rock: Severely Weathered, Soft, Gray, Biotite Schist and Gneiss with Very Close Fracture Spacing 15.3
248.4	16.4	4.6	N=100/4 1:40/0.6 1:27 1:22 1:20 1:05	(4.2) 91%	(4.0) 87%		(8.7) 100%	(8.1) 93%		248.0 Numerous joints at approximately 0° Core Loss at 15.5-16.0 feet; 16.4-16.8 feet SPT Core Loss at 16.0-16.4 feet 16.8
243.8	21.0					RS-5				243.8 Crystalline Rock: Slightly Weathered, Moderately Hard, Gray, Biotite Schist with Wide Fracture Spacing 11.0
238.8	26.0	5.0	1:26 1:26 1:35 1:55 1:58	(4.5) 90%	(4.1) 82%		(1.8) 69%	(0.0) 0%		239.3 Crystalline Rock: Slightly Weathered, Moderately Hard, Gray, Biotite Schist and Gneiss with Wide Fracture Spacing 25.5
233.8	31.0	5.0	2:14 2:09 1:53 2:20 2:13	(4.7) 94%	(3.0) 60%		(7.9) 100%	(7.3) 92%		236.7 1 joint at 5° Weathered Rock Zone at 18.1-18.3 feet Weathered Rock: Moderately Severely Weathered, Medium Hard, Gray, Biotite Schist and Gneiss with Very Close to Close Fracture Spacing 28.1
228.8	36.0	5.0	2:16 1:59 1:49 2:28 2:28	(5.0) 100%	(4.3) 86%					228.8 1 joint at 45° 17 or more joints at 0°-5° Note: Several incipient joints not completely open Core Loss at 25.5-26.0 feet; 26.0-26.3 feet Crystalline Rock: Slightly Weathered, Moderately Hard, Gray, Biotite Schist and Gneiss with Close to Moderately Close Fracture Spacing Weathered Rock Zone 32.5-32.7 feet (Highly Fractured) 1 Healed joint at 5° 6 joints at 10°-20° Coring Terminated at 36.0 feet (Elev. 228.8) in Crystalline Rock (Gray, Biotite Schist and Gneiss) 36.0
Drilling Fluid Properties: Water										

NCDOT BORE SINGLE CROPY015.GPJ NC_DOT.GDT 10/15/03