

PROJECT NO. 33410.1.1		ID. B-4044		FED. NO. BRZ-1515(2)		CO. Burke		FIELD SUPERV. D. Hardister							
SITE DESCRIPTION Bridge No. 4 over Smokey Creek on SR 1515								GROUND WATER (ft)							
BORING NO. B1-A		BORING LOCATION 16+64		OFFSET 12' LT		ALIGNMENT -L-		0 HR. N/M							
COLLAR ELEV. 1021.5 ft		TOTAL DEPTH 27.8 ft		NORTHING 755936.86		EASTING 1227607.77		24 HR. 11.3							
DRILL MACHINE CME 550x		DRILL METHOD Rotary/HQ		HAMMER TYPE Automatic		FINAL CASING DEPTH 12.8 ft									
DATE STARTED 2/11/05		COMPLETED 2/11/05		DRILLING FLUID DENSITY Creek Water		SURFACE WATER DEPTH N/A									
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		
1021.5	0.00				Ground Surface Elev. 1021.5 ft							1021.5	0.00		
1020	3.5	1	1	1							SS-2	W			Alluvial-Very Loose to Loose Brown-Orange to Tan Silty Coarse to Fine SAND (A-2-4)
1015	8.5	1	2	3							SAT				
1010	12.8	60/0									D				Residual-Dense Tan-Brown-Grey Silty Coarse to Fine SAND with Rock Fragments (A-2-4)
															Weathered Rock-Grey-Black Weathered Biotite Gneiss
															Crystalline Rock-Grey-Black-White Metamorphosed Granite
															Crystalline Rock-Grey-Black and Grey-Black-White Slightly to Very Slightly Weathered Hard and Very Hard Biotite Gneiss and Metamorphosed Granite with Moderately Close and Wide Fracture Spacing
1005															
1000															
995															
															Coring Terminated at Elev. 993.7ft in Crystalline Rock (Biotite Gneiss & Metamorphosed Granite)

NCDOT_BORE#11X17 GR050032.GPJ NCDOT2.GDT 2/25/05

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ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min./ft)	RUN		SAMP. NO.	STRATA		DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)	
1008.7									Begin Coring @ 1008.70 ft
1008.7	12.8	5.0	5.35	(4.9) 98%	(4.7) 94%		14.9 99%	14.6 97%	Crystalline Rock-Grey-Black and Grey-Black-White Slightly to Very Slightly Weathered Hard and Very Hard Biotite Gneiss and Metamorphosed Granite with Moderately Close and Wide Fracture Spacing
			3.50						6 Jts @ 0-10'
			3.47						2 Jts @ 10-20'
			3.38						3 Jts @ 20-30'
			3.40						
1003.7	17.8								
1003.7	17.8	5.0	3.54	(5.0) 100%	(4.9) 98%				
			2.38						
			3.07						
			3.46						
			2.50						
998.7	22.8								
998.7	22.8	5.0	3.49	(5.0) 100%	(5.0) 100%				
			2.57						
			3.18						
			2.52						
			2.05						
993.7	27.8								
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