



PROJECT NO.	33253.1.1	ID No.	B-3714	COUNTY	Wilkes	GEOLOGIST	P. Alton	
SITE DESCRIPTION							GROUND WATER (ft)	
Bridge No. 83 over Mulberry Creek on NC 268							0 HR. NM	
BORING NO.	TB1-A	BORING LOCATION	16+62	OFFSET	14ft LT	ALIGNMENT	-L-	
COLLAR ELEV.	985.4 ft	NORTHING	895330.31	EASTING	1372377.94	24 HR. 0.0		
TOTAL DEPTH	76.6 ft	DRILL MACHINE	CME 850	DRILL METHOD	Wash Rotary/HQ & NQ Core	HAMMER TYPE	140lb Manual	
DATE STARTED	11/30/04	COMPLETED	12/13/04	SURFACE WATER DEPTH				NA
CORE SIZE	HQ & NQ	TOTAL RUN	47.8 ft	DRILLER				R. Toothman

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 14.8 ft
970.6	14.8	2.0	1:18	(0.5)	(0.4)		(0.5)	(0.4)		BOULDER: White and Orange Brown, Slightly Weathered, Very Hard Quartzite with Very Close to Close Fracture Spacing RESIDUAL: Dense, Tan Brown, Silty, Coarse to Fine SAND (Saprolite)
968.6	16.8	5.0	0:49	23%	18%		50%	40%		
			0:45	(0.0)	(NA)		(0.2)	(NA)		
			0:29	0%			2%			
			0:51							
963.6	21.8		1:09							
			1:26							
			N=37			SS-21				
962.1	23.3	3.5	0:52/0.5	(0.2)	(NA)					
			0:54	6%						
958.6	26.8		0:47							
			0:52							
957.3	28.1	3.7	N=100/0.8	(0.3)	(NA)		(0.3)	(NA)		WEATHERED ROCK: White, Gray and Brown; Severely Weathered; Medium to Moderately Hard; Biotite Gneiss with Very Close Fracture Spacing RESIDUAL: Very Dense, White and Brown, Micaceous, Silty, Coarse to Fine SAND (Saprolite)
			0:52/0.7	8%			18%	(NA)		
953.6	31.8		1:06				(0.0)	(NA)		
			1:26				0%			
			1:13							
952.1	33.3	3.5	N=81	(3.0)	(2.4)	RS-1	(4.6)	(3.1)		CRYSTALLINE ROCK: White with Gray and Brown, Slightly Weathered, Moderately Hard, Calc-Silicate Rock with Close to Moderately Close Fracture Spacing and with Isolated Garnet
			1:08/0.5	86%	69%		92%	62%		
948.6	36.8	5.0	4:01	(1.6)	(0.7)					
			3:58	32%	14%					
			6:21							
			3:35				(0.1)	(NA)		Very Close Fracture Spacing 37.5ft to 37.7ft and 38.6ft to 38.8ft Soft from 38.0ft to 38.2ft RESIDUAL: Medium Dense to Very Dense, Orange Brown to Tan Brown, Variably Micaceous, Silty, Coarse to Fine SAND (Saprolite)
943.6	41.8		3:06				0%			
			0:30							
			0:30							
942.1	43.3	3.5	N=29	(0.0)	(NA)					
			0:40/0.5	0%						
938.6	46.8		1:20							
			1:03							
			1:46							
937.1	48.3	2.7	N=69	(0.1)	(NA)					
			1:53	4%						
934.4	51.0		2:04							
			1:44/0.7							
932.9	52.5	3.5	N=68	(0.0)	(NA)					
			1:15/0.5	0%						
929.4	56.0		2:15			SS-22				
			3:03							
927.9	57.5	3.5	1:44	(0.0)	(NA)					
			N=40	0%						
924.4	61.0		0:39/0.5							
			1:17							
			0:55							
922.9	62.5	3.5	2:39	(0.0)	(NA)					
			N=30	0%						
919.4	66.0		1:00/0.5							
			3:50							
			3:02							
918.0	67.4	3.6	3:56	(2.8)	(NA)		(4.8)	(NA)		WEATHERED ROCK: Brown with Gray, Severely Weathered, Very Soft to Soft with Isolated Moderately Hard Pieces, Biotite Gneiss with Very Close Fracture Spacing
			N=100/0.9	78%						
914.4	71.0		4:26/0.6							
914.2	71.2	4.8	3:52	(2.0)	(NA)					
			6:08	42%						
			5:42							
			N=60/0.2							
909.4	76.0		9:00/0.8							Coring Terminated at Elevation 909.4ft in WEATHERED ROCK: Biotite Gneiss Boring Terminated at Elevation 908.8ft in WEATHERED ROCK NOTE: Bentonite and creek water used as drilling fluid Mud density = 63.5lbs/cu. ft. at 8.5ft
908.8	76.6		17:00							
			5:55							
			12:30							
			7:37							
			N=100/0.6							

NCDOT CORE SINGLE 07104040.GPJ NC_DOT_GDT 12/23/04