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

PROJECT NO. 33253.1.1	**ID No.** B-3714	**COUNTY** Wilkes	**GEOLOGIST** P. Alton	
SITE DESCRIPTION Bridge No. 83 over Mulberry Creek on NC 268				**GROUND WATER (ft)**
BORING NO. TB1-A	**BORING LOCATION** 16+62	**OFFSET** 14ft LT	**ALIGNMENT** -L-	**0 HR.** NM
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		

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
985.4									
984.4	1.0								985.4 0.00
981.9	3.5	1	2	2	4	SS-20	W		ALLUVIAL: Very Loose to Loose, Tan Brown, Micaceous, Silty, Coarse to Fine SAND
979.4	6.0	2	2	3	5		W		
976.9	8.5	2	1	4	5		W		
971.9	13.5	10	26	17	43		W		976.4 9.0 ALLUVIAL: Dense, Gray and Brown, Silty, Coarse to Fine Sand and Gravel NOTE: Blow count influenced by gravel
963.6	21.8	23	44	54/0.3	100/0.3				971.4 14.0 970.6 WEATHERED BOULDER: White Quartzite 14.8 969.6 BOULDER: White and Orange Brown, Slightly Weathered, Very Hard Quartzite with Very Close to Close Fracture Spacing (Estimate Width Between 2ft and 3ft) 15.8 RESIDUAL: Dense, Tan Brown, Silty, Coarse to Fine SAND (Saprolite)
958.6	26.8	12	17	20	37	SS-21	M		
953.6	31.8	17	28	72/0.3	100/0.8				
943.6	41.8	19	29	52	81		M		
938.6	46.8	5	10	19	29	RS-1	M		
934.4	51.0	35	27	42	69		M		
929.4	56.0	22	37	31	68		M		
924.4	61.0	10	16	24	40	SS-22	M		
919.4	66.0	8	13	17	30		M		
914.4	71.0	37	40	60/0.4	100/0.9				958.1 27.3 956.4 WEATHERED ROCK: White, Gray and Brown; Severely Weathered; Medium to Moderately Hard; Biotite Gneiss with Very Close Fracture Spacing 29.0 951.6 RESIDUAL: Very Dense, White and Brown, Micaceous, Silty, Coarse to Fine SAND (Saprolite) 33.8 946.6 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 38.8 RESIDUAL: Medium Dense to Very Dense, Orange Brown to Tan Brown, Variably Micaceous, Silty, Coarse to Fine SAND (Saprolite) 918.9 66.5 WEATHERED ROCK: Brown with Gray, Severely Weathered, Very Soft to Soft with Isolated Moderately Hard Pieces, Biotite Gneiss with Very Close Fracture Spacing
		60/0.2			60/0.2				

NCDOT BORE SINGLE 07104040.GPJ NC_DOT.GDT 12/23/04

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ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
910.6					Continued from previous page				
909.4	76.0	82	18/0.1		100/0.6				908.8 76.6 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

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