



PROJECT NO. 8.2001201 ID. B-3914 COUNTY Transylvania ENG/GEO Johnson
 SITE DESCRIPTION Bridge 116 Over Grady Fork Creek On S.R. 1105
 BORING NO. EB2-A BORING LOCATION (STA.) 14+85 OFFSET 15' Lt. ALIGNMENT -L-
 COLLAR ELEV. 2306.8 NORTHING 518,418.5 EASTING 874,756.5 GROUND WATER
 TOTAL DEPTH 31.4 DRILL MACHINE CME-45C DRILL METHOD HSA/SPT/NXWL 0 HR. 4.8
 DATE STARTED 5/6/03 DATE COMPLETED 5/6/03 HAMMER TYPE 140lb. Auto 24 HR. 4.2

ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	L O G	W _n / GW	SOIL AND ROCK DESCRIPTION
		0.5 ft	0.5 ft	0.5 ft	0	20	40	60	80				
2306.8													
2305	5.0	1	2	2									Alluvium-Loose, Brown Silty Sand.
2300	10.0	25	60/0.1										
2295	10.8												Black, Gray, White, Severely Weathered Rock (Gneiss)
2290	16.4												Auger Refusal @ 10.8' (Elev. 2296.0') on Hard Rock (Gneiss). Begin Core in Brown, Orange, Severely Weathered Gneiss, Very Soft.
2285	21.4												Black, White, Gray Severely Weathered Henderson Gneiss, Soft to Very Hard, Very Close to Close Fracture Spacing.
2280	26.4												Red/Orange Staining with Black & White Severely to Moderately Weathered Henderson Gneiss, Very Soft to Moderately Hard, Very Close to Close Fracture Spacing.
2275.4	31.4												Black, White, Gray, Slightly Weathered to Fresh Henderson Gneiss, Medium Hard to Very Hard, Very Close to Close Fracture Spacing.
													Black, White, & Gray, Slightly Fractured to Fresh Henderson Gneiss, Moderately Hard to Very Hard, Very Close to Close Fracture Spacing.
													Boring Terminated @ 31.4' (Elev. 2275.4') in Hard Rock (Gneiss). Water from Glady Fork Creek used as drilling fluid.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION							
DIVISION OF HIGHWAYS							
GEOTECHNICAL UNIT CORE BORING REPORT							
Project No.: 8.2001201		I.D. No.: B-3914		Boring No.: EB2-A			
Site: Bridge 116 over Glady Fork Creek on SR1105		County: Transylvania					
Collar Elev.: 2306.8'		Core Size: NX		Equipment: CME-45C			
Driller: R. GRADY		Geologist: Johnson		Personnel: M. BROWN			
Total Depth: 31.4 ft		Total Run: 20.6ft		Date: 06MAY03			
Elev. (ft.)	Depth (ft.)	Drill Rate (min/ft)	Run	REC %	RQD %	SAMP No.	FIELD CLASSIFICATION AND REMARKS
2296.0	10.8	0:42/0.5	0.6	(0.4') 67	(0.0') 0		Brown, org, severely weathered gneiss, very soft, fract. Spacing not measurable. 10.8' to 11.4' - joints not measurable
2295.4	11.4						
2295.4	11.4	0:58					
2295.4	11.4	0:52	5.0	(3.1') 62	(0.9') 18		Blk, wht, gry severely to v. su. Weathered Henderson Gneiss, soft to v. hard, v. close to close fract. Spacing, moderate to heavy iron staining w/ depth, augens, stained jt. faces. 11.4' to 16.4' - 2 joints @ 25°-30°, 1 joint @ 80°, 14 joints @ 0°-5°
2290.4	16.4	0:56					
2290.4	16.4	0:41					
2290.4	16.4	1:03	5.0	(2.3') 46	(0.0') 0		Red/org, staining w/ blk, wht, severely to moderately weathered Henderson gneiss, very soft to moderately hard, v. close to close fract. Spacing, augens, peg. Vein, stained jt. faces. 16.4' to 21.4' - 2+joints @ 0°-15°
2290.4	16.4	1:02					
2290.4	16.4	0:42					
2285.4	21.4	0:48	5.0	(4.2') 84	(1.6') 32		Blk, wht, gry slightly weathered to fresh Henderson gneiss, med. hard to very hard, v. close to close fract. Spacing, augens, stained jt faces. 21.4' to 26.4' - 15+joints @ 0°-10°, 2 joints @ 20°
2285.4	21.4	0:56					
2285.4	21.4	1:08					
2285.4	21.4	1:01	5.0	(4.5') 90	(0.0') 0		Blk, wht, gry, sli. Weathered to fresh Henderson gneiss, moderately hard to v. hsr, v. close to close fract. Spacing, augens, some mineral growth on jt. faces. Peg. Vein @ 28.3ft-28.7ft w/ some fe-staining. 26.4' to 31.4' - 7+joints @ 25°-40°, 13+joints @ 0°-5°. Coring terminated @ 31.4' (elev. 2275.4 ft) in hr (gneiss). SREC 68% (14.1) SRQD 12% (2.5)
2280.4	26.4	1:12					
2280.4	26.4	1:09					
2280.4	26.4	1:14	5.0	(4.5') 90	(0.0') 0		Blk, wht, gry, sli. Weathered to fresh Henderson gneiss, moderately hard to v. hsr, v. close to close fract. Spacing, augens, some mineral growth on jt. faces. Peg. Vein @ 28.3ft-28.7ft w/ some fe-staining. 26.4' to 31.4' - 7+joints @ 25°-40°, 13+joints @ 0°-5°. Coring terminated @ 31.4' (elev. 2275.4 ft) in hr (gneiss). SREC 68% (14.1) SRQD 12% (2.5)
2280.4	26.4	1:16					
2280.4	26.4	1:10					
2275.4	31.4	1:08					