

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL UNIT BORING LOG

PROJECT NO 8.2751801	ID B-3709	COUNTY WATAUGA	GEOLOGIST L. L. ACKER
SITE DESCRIPTION BR. # 94 ON SR-1111 OVER LAUREL FORK CREEK			GND WATER
BORING NO EB2-A	NORTHING 0.00	EASTING 0.00	0 HR N/A
ALIGNMENT -L-	BORING LOCATION 17+76.000	OFFSET 12.00ft LT	24 HR N/A
COLLAR ELEV 2794.54ft	TOTAL DEPTH 27.10ft	START DATE 1/22/03	COMPLETION DATE 01/22/03
DRILL MACHINE CME-550	DRILL METHOD SPT CORE BORING	HAMMER TYPE AUTOMATIC	
SURFACE WATER DEPTH	DEPTH TO ROCK 16.40ft	Log EB2-A, Page 1 of 1	

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WATAUGA COUNTY

ELEV	DEPTH	BLOW CT			PEN (ft)	BLOWS PER FOOT					SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION	
		6in	6in	6in		0	25	50	75	100				
2794.54														
2790.00	4.00	3	37	21	1.0									FILL: BROWN, LOOSE, SILTY, COARSE SAND WITH ROCK FRAGMENTS AND BOULDERS
	9.00	11	25	27	1.0									COLLUVIAL: YELLOW-BROWN, SILTY SAND WITH WEATHERED GRAVEL COBBLES AND BOULDERS
2780.00	14.00	90	10		0.5									COLLUVIAL: COBBLES AND BOULDERS IN LOOSE SILTY SAND
														WEATHERED ROCK
														WEATHERED ROCK CORED: BROWN, SOFT, WEATHERED GREENSTONE WITH HARD ROCK SEAMS REC=40 RQD=0
2770.00														HARD ROCK: SLIGHTLY WEATHERED GREENSTONE REC=96 RQD=84
2767.44														HARD ROCK: FRESH GREENSTONE REC=100 RQD=100

TERMINATED BORING IN HARD ROCK AT ELEVATION 2767.44 FEET

Ground Surface

58

52

CORE 1

CORE 2

CORE 3



EB2-A

CORE 1: 14.9 – 17.4

CORE 2: 17.4 – 22.2

CORE 3: 22.2 – 27.1

REC=66% RQD=40%

REC=96% RQD=88%

REC=98% RQD=86%

LAYER 1: 14.9 – 16.4 Soft, very severely weathered, brown, chlorite greenstone. Very close jointed. All joints coated with Fe- and Mn-oxides. Mostly weathered rock. REC=40% RQD=0%

LAYER 2: 16.4 – 23.1 Moderately hard, slightly weathered, chlorite greenstone; non-layered, poorly foliated at 50 degrees. Close jointed, 14 pieces, longest piece 1.7 feet. 4 joints on foliation. 2 joints at 20 degrees. 1 joint at 10 degrees. All joints moderately rough, coated with Fe-oxide. REC=96% RQD=84%

LAYER 3: 23.1 – 27.1 Moderately hard, fresh chlorite greenstone; non-layered, poorly foliated at 60 degrees. Moderately close jointed, 2 pieces, longest piece 2.3 feet. 2 joints at 10 degrees, moderately rough, clean. REC=100% RQD=100%