

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
GEOTECHNICAL UNIT BORING LOG**

PROJECT NO. 8.2751801  
B-3709  
WATAUGA COUNTY

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 EB1-B		NORTHING 0.00		EASTING 0.00		0 HR N/A	24 HR N/A							
ALIGNMENT -L-		BORING LOCATION 16+63.000		OFFSET 12.00ft RT										
COLLAR ELEV 2793.22ft		TOTAL DEPTH 22.80ft		START DATE 1/28/03		COMPLETION DATE 01/28/03								
DRILL MACHINE CME-550			DRILL METHOD SPT CORE BORING			HAMMER TYPE AUTOMATIC								
SURFACE WATER DEPTH			DEPTH TO ROCK 13.50ft			Log EB1-B, Page 1 of 1								
ELEV	DEPTH	BLOW CT			PEN (ft)	BLOWS PER FOOT					SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION	
		6in	6in	6in		0	25	50	75	100				
2793.22														
2790.00	4.30	4	3	5	1.0	8								EMBANKMENT: BROWN, LOOSE, SANDY SILT WITH ROCK FRAGMENTS AND BOULDERS
2780.00	9.30	24	100		0.5				100					WEATHERED ROCK
2770.42														HARD ROCK NOT CORED HARD ROCK: SLIGHTLY WEATHERED GREENSTONE REC=96 RQD=74
TERMINATED BORING IN HARD ROCK AT ELEVATION 2770.42 FEET														



EB1-B

CORE 1: 14.3 – 17.9  
CORE 2: 17.9 – 22.8

REC=92% RQD=53%  
REC=98% RQD=90%

LAYER 1: 14.3 – 22.8 Moderately hard, slightly weathered, chlorite greenstone; non-layered, poorly foliated at 60 degrees. Close to wide spaced fractures, 16 pieces, longest piece 3.0 feet. 6 joints on foliation, moderately rough. 4 joints at 20 degrees, rough. 3 joints at 10 degrees, rough. All joints coated with Fe-oxide.  
REC=96% RQD=74%