

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 EB2-B		NORTHING 0.00		EASTING 0.00		0 HR N/A							
ALIGNMENT -L-		BORING LOCATION 17+62.000		OFFSET 12.00ft RT		24 HR N/A							
COLLAR ELEV 2794.48ft		TOTAL DEPTH 22.10ft		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 15.00ft			Log EB2-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
2794.48													
2790.00	3.70	19	7	6	1.0								EMBANKMENT: BROWN, LOOSE, SILTY COARSE SAND WITH ROCK FRAGMENTS AND BOULDERS
	8.70	11	36	21	1.0								COLLUVIAL: BOULDERS IN BROWN, SILTY SAND AND GRAVEL
2780.00													HARD ROCK: SLIGHTLY TO MODERATELY WEATHERED GREENSTONE REC=81 RQD=34
2772.38													HARD ROCK: FRESH GREENSTONE REC=100 RQD=100
													TERMINATED BORING IN HARD ROCK AT ELEVATION 2772.38 FEET



EB2-B

CORE 1: 12.1 – 17.1
 CORE 2: 17.1 – 22.1

REC=52% RQD=26%
 REC=94% RQD=74%

LAYER 1: 12.1 – 15.0 Colluvial boulders

LAYER 2: 15.0 – 19.4 Moderately hard, slightly to moderately weathered chlorite greenstone; non-layered, poorly foliated at 60 degrees. Severely weathered seams at 16.0-16.4 and 19.1-19.3. Close jointed, 22 pieces, longest piece 0.5 feet. Numerous low- and high-angle joints, moderately rough, coated with Fe- and Mn-oxides. REC=81% RQD=34%

LAYER 3: 19.4 – 22.1 Moderately hard, fresh, chlorite greenstone; non-layered, poorly foliated at 60 degrees. Moderately close jointed, 2 pieces, longest piece 2.0 feet. 2 joints at 10-20 degrees, moderately rough, coated with Fe-oxide. REC=100% RQD=100%