

GEOTECHNICAL UNIT BORING LOG

PROJECT NO 8.1910203		ID R-977A		COUNTY CHEROKEE		GEOLOGIST T.P. SHELTON							
SITE DESCRIPTION BRIDGE ON US 64 OVER HIWASSEE RIVER AT PEACHTREE							GND WATER						
BORING NO EBL EB1-A		NORTHING 0.00		EASTING 0.00		0 HR N/A							
ALIGNMENT -L-REV		BORING LOCATION 67+52.000		OFFSET 0.00m		24 HR 2.50m							
COLLAR ELEV 476.74m		TOTAL DEPTH 13.83m		START DATE 11/12/97		COMPLETION DATE 11/13/97							
DRILL MACHINE CME 550			DRILL METHOD SPT CAS ADV NXWL			HAMMER TYPE AUTOMATIC							
SURFACE WATER DEPTH N/A			DEPTH TO ROCK 5.33m			Log EBL EB1-A, Page 1 of 1							
ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm				SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm		0	25	50	75				100
476.74													Ground Surface
476.00													ALLUVIUM: TAN AND BROWN, VERY LOOSE SILTY SAND
474.00	1.67	1	0	1	0.3							W	
472.00	3.19	3	3	6	0.3							W	ALLUVIUM: TAN AND BROWN, LOOSE SILTY SAND WITH ROUNDED GRAVEL
470.00	4.72	100	0	0	0.1				100				OLIVE BROWN, SILTY SOFT TO HARD WEATHERED ROCK
													COR 1
													COR 2
468.00													SLIGHTLY WEATHERED, MODERATELY FRACTURED PHYLLITE REC=64% RQD=32%
													COR 3
466.00													FRESH, SOUND METASILTSTONE WITH A FEW THIN WEATHERED ZONES IN UPPER HALF REC=88% RQD=72%
													COR 4
464.00													COR 5
462.91													BORING TERMINATED AT ELEVATION 462.914 METERS IN ROCK

PROJECT NO: 8.1910203 (R-977A)
 CHEROKEE COUNTY
 BRIDGE 4



EBL EB1-A

COR 1: 5.33-6.23	REC=98%	RQD=0%
COR 2: 6.23-8.93	REC=63%	RQD=32%
COR 3: 8.93-10.79	REC=73%	RQD=51%
COR 4: 10.79-12.31	REC=98%	RQD=62%
COR 5: 12.31-13.83	REC=98%	RQD=98%

LAYER 1: 5.33-6.49 Soft to hard weathered rock: olive brown, highly weathered, moderately to extremely fractured phyllite; yellow clay from 6.30 to 6.48. 40 pieces plus rubble, longest piece 8cm. Joints indeterminate. REC=98% RQD=0%

LAYER 2: 6.49-9.28 Moderately hard, slightly weathered, moderately fractured, gray to yellow-brown phyllite. 25 pieces, longest piece 19cm. Core broken and weathered 9.0-9.20m; core loss includes machine grinding. Bedding dips 35°. 6 joints on bedding, ADS=27cm, ADT=0.01cm, moderately rough, with Fe and Mn oxide coating. REC=64% RQD=32%