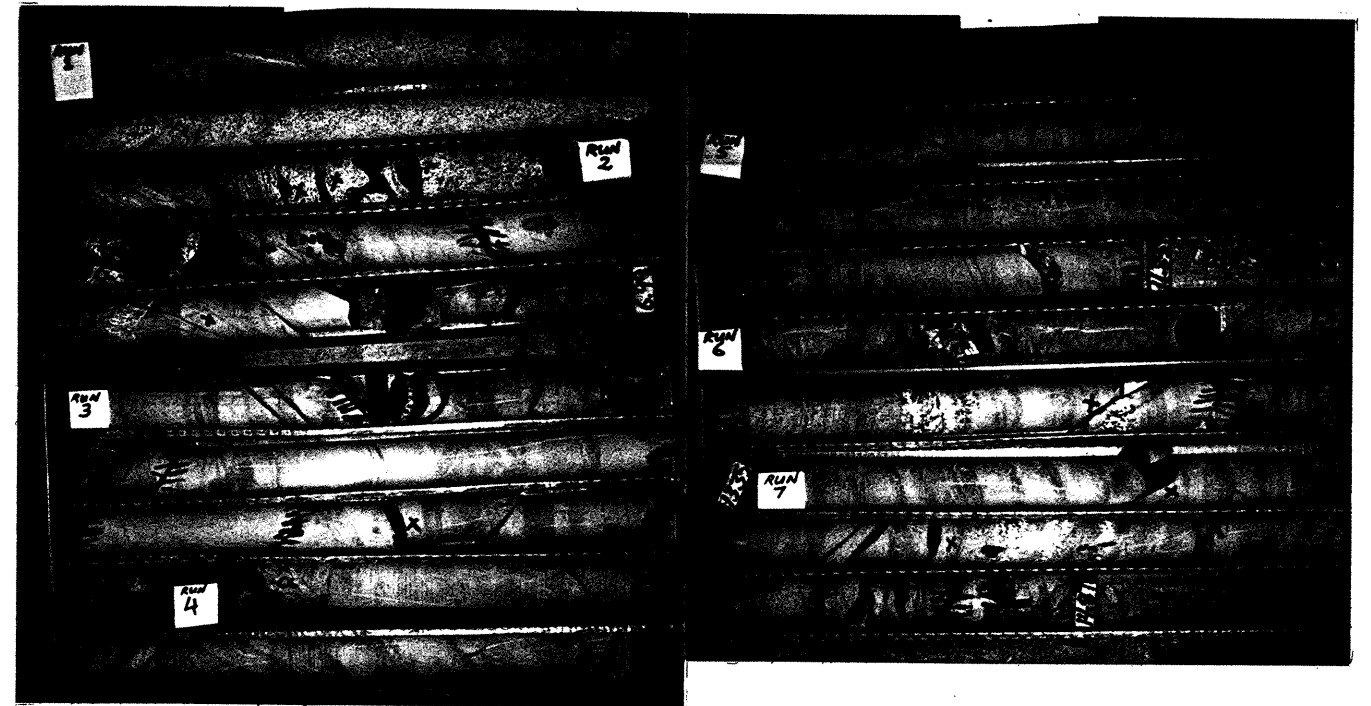


NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL UNIT BORING LOG

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-B	NORTHING 0.00	EASTING 0.00	0 HR N/A
ALIGNMENT -L-REV	BORING LOCATION 67+60.500	OFFSET 17.30m RT	24 HR 2.60m
COLLAR ELEV 476.85m	TOTAL DEPTH 14.87m	START DATE 11/11/97	COMPLETION DATE 11/11/97
DRILL MACHINE CME 550	DRILL METHOD SPT CAS ADV NXWL	HAMMER TYPE AUTOMATIC	
SURFACE WATER DEPTH N/A	DEPTH TO ROCK 3.74m	Log EBL EB1-B, Page 1 of 1	

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

ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm					SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm		0	25	50	75	100				
476.85														Ground Surface
476.00														
474.00	1.64	2	1	1	0.3									ALLUVIUM: BROWN, VERY LOOSE SILTY SAND WITH SMALL ROCK FRAGMENTS
472.00	3.16	56	100	0	0.1									SOFT WEATHERED ROCK
470.00														SLIGHTLY WEATHERED, SLIGHTLY FRACTURED, HARD GRANOFELS REC=85% RQD=65%
468.00														FRESH, SOUND METASILTSTONE WITH A FEW THIN WEATHERED ZONES REC=89% RQD=73%
466.00														
464.00														
462.98														
														BORING TERMINATED AT ELEVATION 461.984 METERS IN ROCK



EBL EB1-B

COR 1: 3.74-5.75	REC=84%	RQD=73%
COR 2: 5.75-6.99	REC=91%	RQD=49%
COR 3: 6.99-8.79	REC=94%	RQD=66%
COR 4: 8.79-10.31	REC=90%	RQD=69%
COR 5: 10.31-11.83	REC=98%	RQD=93%
COR 6: 11.83-13.35	REC=72%	RQD=72%
COR 7: 13.35-14.87	REC=95%	RQD=67%

LAYER 1: 3.47-5.96 Hard, fresh to slightly weathered, sound to moderately fractured, light gray pseudodiorite, slightly calcareous, highly pyritic. 16 pieces, longest piece 58cm. Weak foliation dips 45°. 4 joints on foliation, ADS=56cm, ADT=0.01cm, rough to moderately rough, with Fe and Mn oxide coatings on some. 4 joints at 15°, below 5.0 meter depth, ADS=12cm, ADT=0.01cm, moderately rough, with Fe and Mn oxide stain. 2 joints at 65°, t=0.01cm, moderately rough with Fe and Mn oxide stain. REC=85% RQD=65%