

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL UNIT BORING LOG

SHEET 1 OF 1

SHEET 13 OF 19

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 GEOTECHNICAL UNIT CORE BORING REPORT

PROJECT NO. 8.2572401	ID. B-3506	COUNTY RANDOLPH	GEOLOGIST STICKNEY J.K.
SITE DESCRIPTION BRIDGE NO. 226 ON SR 2832 OVER RICHLAND CREEK			GROUND WATER
BORING NO. B2-B	BORING LOCATION 18+40.00	OFFSET 10.00	ALIGNMENT L
COLLAR ELEVATION 512.72	NORTHING 689927.5995	EASTING 1780153.4060	0 HR. CAVED 4.6
TOTAL DEPTH 38.65	DRILL MACHINE CME-550	DRILL METHOD NW CAS/NXWL	HAMMER TYPE AUTOMATIC
START DATE 5/13/03	COMPLETION DATE 5/13/03	SURFACE WATER DEPTH	DEPTH TO ROCK 10.50

PROJECT NO: 8.2572401 PROJECT ID: B-3506 COUNTY: RANDOLPH GEOLOGIST: J.K. STICKNEY
 SITE DESCRIPTION: BRIDGE NO. 226 ON SR 2832 OVER RICHLAND CREEK DRILLER: C.L. SMITH
 BORING NO: B2-B BORING LOCATION (STA): 18+40.00 -L- OFFSET: 10.00 RT.
 COLLAR ELEV: 512.72 PERSONNEL: C.E. BURRIS CORE SIZE: NXWL
 TOTAL DEPTH: 38.65 DRILL MACHINE: CME-550 DATE STARTED: 5/13/03
 TOTAL RUN: 28.15 DRILL EQUIP: NXWL DATE COMPLETED: 5/13/03

ELEV. (FT.)	DEPTH (FT.)	BLOW COUNT			PEN. (FT.)	BLOWS PER FOOT					SAMPLE NUMBER	LOG	SOIL AND ROCK DESCRIPTION	
		0.5'	0.5'	0.5'		0	25	50	75	100				
512.72														ROADWAY FILL - LOOSE RED-ORANGE SILTY CLAYEY SAND WITH ROCK FRAGMENTS AND BOULDER AT 3.2'
510.00	3.2	100			0.1									
505.00	8.2	6	5	3	1	X 8							SS-1 CORE1	WEATHERED ROCK (VERY DENSE SILTY SAND)
500.00	13.9													CORE2 (CRYSTALLINE ROCK) GRAY MOD. HARD TO HARD MOD. TO SLI WEATH. FELSIC METAVOLCANIC REC=50% RQD=0%
495.00	18.9													CORE3 RS-2 (AS ABOVE) REC=40% RQD=0%
490.00	23.6													CORE4 GRAY V. HARD SLI. WEATH. TO FRESH METAVOLCANIC REC=98% RQD=60%
485.00	28.9													CORE5 GRAY HARD TO V. HARD MOD. WEATH. TO FRESH METAVOLCANIC REC=88% RQD=30%
480.00	33.9													CORE6 GRAY HARD TO V. HARD SLI. WEATH. TO FRESH METAVOLCANIC REC=95% RQD=62%
475.00														GRAY V. HARD FRESH METAVOLCANIC REC=99% RQD=98%
470.00														
465.00														
460.00														
455.00														
450.00														
445.00														
440.00														
435.00														

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
502.22	10.50		1	50	0		GRAY MOD. HARD TO HARD MOD. WEATH. TO SLI. WEATH. FELSIC METAVOLCANIC W/ V. CLOSE FRACTURE SPACING
498.82	13.90		2	40	0		GRAY MOD. HARD TO HARD MOD. WEATH. TO SLI. WEATH. FELSIC METAVOLCANIC W/ V. CLOSE FRACTURE SPACING
493.82	18.90		3	98	60	RS-2 (22.8-23.3)	GRAY V. HARD SLI. WEATH. TO FRESH METAVOLCANIC W/ V. CLOSE TO MOD. CLOSE FRACTURE SPACING
489.12	23.60		4	88	30		GRAY HARD TO V. HARD MOD. WEATH. TO FRESH METAVOLCANIC W/ V. CLOSE TO CLOSE FRACTURE SPACING. PROMINENT VERTICAL FRACTURE FROM 25.40'-27.60'.
483.82	28.90		5	95	62		GRAY HARD TO V. HARD SLI. WEATH. TO FRESH METAVOLCANIC W/ V. CLOSE TO MOD. CLOSE FRACTURE SPACING.
478.82	33.90		6	99	98		GRAY V. HARD FRESH METAVOLCANIC (2 SOLID PIECES OF CORE)
474.07	38.65						

NOTES

CORING TERMINATED AT
 ELEVATION 474.07 FEET
 IN HARD ROCK (GRAY V.
 HARD FRESH (METAVOLCANIC))