

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

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

PROJECT NO 8.2572901		ID B-3690		COUNTY RANDOLPH		GEOLOGIST JAY K. STICKNEY								
SITE DESCRIPTION BRIDGE#163 OVER BRUSH CREEK ON SR 2641						GND WATER								
BORING NO B2-B		NORTHING 0.00		EASTING 0.00		0 HR 1.30ft								
ALIGNMENT L		BORING LOCATION 17+07.700		OFFSET 12.80ft RT		24 HR 2.10ft								
COLLAR ELEV 407.01ft		TOTAL DEPTH 32.60ft		START DATE 8/13/02		COMPLETION DATE 08/13/02								
DRILL MACHINE CME-550			DRILL METHOD NW CAS/NXWL			HAMMER TYPE AUTOMATIC								
SURFACE WATER DEPTH			DEPTH TO ROCK 3.20ft			Log B2-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				
407.01														Ground Surface
														0-1.2' ALLUVIUM
														1.2' - 3.2' RESIDUAL, WEATHERED ROCK.
														3.2' -32.6' ROCK
400.00														
390.00														
380.00														
374.41														
														TRICONE REFUSAL AT 32'. CORE TO END OF BORING AT 32.6'

PROJECT NO: 8.2572901 PROJECT ID: B-3690 COUNTY: Randolph GEOLOGIST: J.K. STICKNEY
 SITE DESCRIPTION: Bridge 163 over Brush Creek on SR 2641 DRILLER: R.S. HINSON
 BORING NO: B2-B BORING LOCATION (STA): 17+07.7 OFFSET: 12.8 RT.
 COLLAR ELEV: 407.01 PERSONNEL: DH RSH,JKS, CORE SIZE: NXWL
 TOTAL DEPTH: 32.6 DRILL MACHINE: CME-550 DATE STARTED: 08/13/02
 TOTAL RUN: 29.4 DRILL EQUIP: NXWL/NXCAS/ DATE COMPLETED: 08/13/02

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
403.81	3.2	2	1	50%	32%		3.2' to 10' Hard, very slightly weathered, close to very close spaced fractured, crystalline rock. Metamorphosed sediment, probably silicified. Relict bedding is at 60 degree dip, cleavage is dipping at 70 to 80 the other way.
403.16	3.85						
402.41	4.6	nm	2	58.3%	13.9%		Core Missing from 3.85 to 4.6'
397.41	9.6	1.72	3	100%	65.2%		10' to 18.5' Hard, to very hard, fresh close to moderately close fractured crystalline rock. Relict bedding is dipping at 60, cleavage is at 80 to 90, and much of the core breaks on horizontal fractures.
392.41	14.6	2.44	4	100%	73%		18.5' to 24.0' Very hard fresh close fractured crystalline rock with relict bedding at 60 to 45 degree dip, and cleavage at 70. Fractures are parallel to core axis.
387.91	19.1	nm	5	94.5%	12%		
382.41	24.6	nm	6	100%	66%		24' to 32.6' Very hard, fresh moderately close fractured crystalline rock. Bedding is faint, cleavage is at 60 degree dip, and joints are parallel to the core axis/
377.41	29.6	1.27	7	100%	45%		
374.31	32.7						
NOTES							