NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG

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 B4-A	NORTHING 0.00	EASTING 0.00	0 HR 7.70ft
ALIGNMENT L	BORING LOCATION 18+18.230	OFFSET 10.80ft LT	24 HR 7.50ft
COLLAR ELEV 410.54ft	TOTAL DEPTH 34.00ft	START DATE 8/28/02	COMPLETION DATE 08/28/02
DRILL MACHINE CME-550	DRILL METHOD NW CAS/NXWL		HAMMER TYPE AUTOMATIC
SURFACE WATER DEPTH	DEPTH TO ROCK 5.35ft		Log B4-A, Page 1 of 1

ELEV	DEPTH	BLOW CT 6in	6in	6in	PEN (ft)	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO	MOI	LOG	SOIL AND ROCK DESCRIPTION
410.54						Ground Surface				
	4.25	14	37	63	0.8	100				0-3.4' ALLUVIUM
										3.4' -5.35' WEATHERED ROCK
										5.35 -5.5' ROCK, TRICONE REFUSAL AT BASE
400.00										5.5' -34.0 CRYSTALLINE ROCK
380.00										
376.54						TRICONE REFUSAL AT 5.5', CORE TO END OF HOLE AT 34.0				

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

PROJECT NO: 8.2572901 **PROJECT ID:** B-3690 **COUNTY:** Randolph **GEOLOGIST:** J.K. STICKNEY
SITE DESCRPTION: Bridge 163 over Brush Creek on SR 2641 **DRILLER:** R.S. HINSON
BORING NO: B4-A **BORING LOCATION (STA):** 18+18.23 **OFFSET:** 10.8 LT
COLLAR ELEV: 410.54 **PERSONNEL:** DH RSH,JKS, **CORE SIZE:** NXWL
TOTAL DEPTH: 34.0 **DRILL MACHINE:** CME-550 **DATE STARTED:** 08/28/02
TOTAL RUN: 28.5 **DRILL EQUIP:** NXWL/NXCAS/ **DATE COMPLETED:** 08/28/02

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
405.04	5.5	4	1	85.7%	54%		5.5' to 12.0' Very hard, very slightly weathered, close fractured crystalline rock. Core missing from 7.3' to 8.0' Fractures have dips of 60 and 80 degrees. Massive rock fine grained, probably metamorphosed volcanic.
401.54	9.0	3.5	2	95.7%	57.4%		12.0' to 18' Hard, slightly weathered with close spaced, open, iron stained fractures. Joints have dips of 60 70 and 90 degrees, which hurts RQD returns.
396.84	13.7	3.0	3	91.8%	55.0%		
391.94	18.6	3.5	4	79.6%	35%		18' to 31' Hard, slight to moderately weathered, with iron stained very close spaced fractures, having dips of 70, 90 and 45 degrees. Metamorphosed crystalline rock, possibly air fall volcanic.
386.54	24.0	3	5	91%	7.7%		
382.04 376.54	28.5 34.0	4	6	100%	56%		31' to 34' Hard, fresh, close spaced fractured crystalline rock with relict bedding features.

NOTES