

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

12/22  
SHEET 1 OF 1

PROJECT NO 8.2711301	ID B-2905	COUNTY ASHE	GEOLOGIST RIDDLE, R.E.
SITE DESCRIPTION BRIDGE NO. 113 ON SR-1179 OVER S. FORK NEW RIVER			GND WATER
BORING NO B3-C	NORTHING 0.00	EASTING 0.00	0 HR N/A
ALIGNMENT -L-	BORING LOCATION 19+50.000	OFFSET 0.00ft	24 HR N/A
COLLAR ELEV 2814.47ft	TOTAL DEPTH 40.70ft	START DATE 3/15/00	COMPLETION DATE 03/16/00
DRILL MACHINE CME-550	DRILL METHOD SPT CORE BORING	HAMMER TYPE AUTOMATIC	
SURFACE WATER DEPTH 4.50ft	DEPTH TO ROCK 19.20ft	Log B3-C, 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			
2818.97												Surface Water
												Ground Surface
2810.00	1.20	0	0	2	1.0							ALLUVIUM: BROWN, SLIGHTLY MICACEOUS, SILTY SAND.
	6.20	53	47	0	0.1					SS-3	M	ALLUVIUM: BROWN, SLI. MIC., SANDY SILT W/ GRAVEL. SOFT WEATHERED ROCK: BROWN, SLIGHTLY MICACEOUS, SILTY SAND.
2800.00	11.20	51	49	0	0.05							
	16.20	80	20	16	1.0					SS-4	M	SAPROLITE: BROWN, SLIGHTLY MICACEOUS, SILTY SAND.
										CORE 1		BRN-GREY, HARD MIC. GNEISS REC: 89% RQD: 50%
										CORE 2		MIC. GNEISS W/ WEATHERED RK ZONES. REC: 64% RQD: 28%
2790.00										CORE 3		GRAY, FRESH, HARD, MOD. FRAC.-SOUND, PHYLLITIC MIC. GNEISS. REC: 100% RQD: 76%
										CORE 4		GRAY, THINLY LAMINATED, PHYLLITIC MICACEOUS GNEISS. REC: 100% RQD: 92%
2780.00										CORE 5		VARIABLY FLOW-BANDED TO LAMINATED, PHYLLITIC MIC. GNEISS. REC: 100% RQD: 84%
2773.77												BORING TERMINATED IN ROCK (MICACEOUS GNEISS) AT ELEVATION 2773.77 FEET.

CORE BORING REPORT							DATE 04/12/2000
PROJECT:	8.2711301	I. D. NO:	B-2905	BORING NO:	B3-C	GEOLOGIST:	J.W. MANN
DESCRIPTION:	BRIDGE NO. 113 ON SR-1179 OVER SOUTH FORK NEW RIVER						
COUNTY:	ASHE	COLLAR ELEVATION:	2814.5 FT.	TOTAL DEPTH:	40.7 FT.		
ELEV. (FEET)	DEPTH (FEET)	DRILL RATE (MIN./FT.)	RUN (FEET)	REC. FEET %	RQD. FEET %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
2795.3	19.2		1.8	1.6	0.9		BRN-GREY, THINLY LAMINATED, HARD MIC. GNEISS-SLI. WEATHERED & EXTREMELY-MOD. FRAC. W/ RUBBLE. QZ. INTRUSION @ CORE'S BOTTOM. OBSERVABLE JOINTS: 1 @ 60-90° OTHER JOINTS: INDETERMINABLE DUE TO RUBBLE.
2793.5	21.0			89	50		STRATA REC = 89% STRATA RQD = 50% [21.0 ft.]
2793.5	21.0		5.0	3.2	1.4		BRN-GRAY MIC. GNEISS. FRAC. QZ. INTRUSION (21.0-21.7 ft.). FROM (21.0-24.5 ft.): ROCK IS MED.- MOD. HARD, MOD.-MOD. SEVERELY WEATHERED, & EXT.-MOD. FRAC. W/ NOTABLE WEATHERED ROCK ZONES. POOR REC. FROM (24.5-26.0 ft.): ROCK IS HARD, SLI. WEATHERED & SOUND.
2788.5	26.0			64	28		OBSERVED JOINTS: 4 @ 30-60° [26.0 ft.]
2788.5	26.0		4.9	4.9	3.7		GRAY, THINLY LAMINATED TO VARIABLY FLOW-BANDED, PHYLLITIC MICACEOUS GNEISS. ROCK IS HARD, FRESH, AND MODERATELY FRAC. TO SOUND.
2783.6	30.9			100	76		
2783.6	30.9		4.9	4.9	4.5		20 JOINTS @ 30-60° ADS = 0.73 ft. ADT = 0.02 ft.
2778.7	35.8			100	92	RS-4	STRATA REC = 100% STRATA RQD = 84%
2778.7	35.8		4.9	4.9	4.1		
2773.8	40.7			100	84		[40.7 ft.]
2773.8	40.7						
CORING TERMINATED AT ELEVATION 2773.8 FT.							
DRILLER:	D.O. CHEEK	CORE SIZE:	NXWL	EQUIPMENT:	CME-550		