

TIP # : B-2963
 STATE PROJECT # : 8.2352201
 FED PROJECT # : BRSTP-1107(4)
 COUNTY : DURHAM BORING # : B2-A
 DATE STARTED : 6/3/98 COLLAR ELEVATION : 222.8 ft.
 DATE COMPLETED : 6/3/98 TOTAL DEPTH : 48.0 ft.
 DRILL MACHINE : CME 550X BORING LOCATION : STA. 25+31, -L-
 DRILL METHOD : HSA OFFSET : 15.0 ft. Lt.
 GEOLOGIST/ENG : K. MORROW GROUND WATER : 2.6 ft. I.A.D. 2.4 ft. @ 24 HR.
 SITE DESCRIPTION : BRIDGE NO. III ON SR 1107 OVER NEW HOPE CREEK



North Carolina Department of Transportation
 Division of Highway
 Geotechnical Unit Core Boring Reports

Project: 8.2352201 Tip #: B - 2963 County: Durham Boring No.: B2 - A
 Site Description: Bridge No. 111 on SR 1107 over New Hope Creek
 Collar Elev.: 222.8 ft. Core Size: NQ2 Equipment: CME-550X
 Driller: T. Finkenbinder Engineer: D. Dewey Personnel: K. Morrow
 Total Depth: 48.0 ft. Total Run: 5.0 ft. Date: 6-8-98

ELEV.	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					Wn / GW	S / M	N / O	LOG		
		6"	6"	6"	0	20	40	60	80					100	
235.0					AUTOMATIC HAMMER										
230.0															
225.0															
222.8					GROUND SURFACE								222.8		
220.0	3.6	NOR	NOR	NOR									22	55-23	RIP RAP CHANNEL PROTECTION TO 1.8 ft. ALLUVIAL - GRAY-ORANGE-TAN, VERY SOFT TO STIFF, FINE SANDY-CLAYEY-SILT
215.0	8.6	2	3	6											
210.0	13.6	3	4	6											
205.0	18.6	17	30	40											RESIDUAL - GRAY AND REDDISH-BROWN, HARD, CLAYEY-SILT
201.1															201.1
200.0	23.6	50/2													GRAY AND REDDISH-BROWN, SOFT WEATHERED ROCK (TRIASSIC SANDSTONE AND MUDSTONE)
195.0	28.6	50	50												100+
190.0	33.6	100/5													100+
185.0	38.6	50/3													100+
180.0	43.0	50/0													100+
179.8															179.8
174.8															174.8
170.0															
165.0															

Elev (ft)	Depth (ft)	Drill Rate min/ft	Run (ft)	RQD %	Rec. %	Field Classification and Remarks
176.8	43.0	3:50	5.0	5.00	5.00	43.0-43.8 - Gray and reddish-brown, moderately weathered extremely to moderately weathered fractured, sandstone
		4:10				
		4:13				
		2:03				
174.8	48.0	2:05		36%	93%	43.8-45.4 - Reddish brown, moderately weathered, slightly fractured, mudstone 1 Joint at 0° ADS = 0.8 ft. ADT = 0.005 ft
						45.4-48.0 - Reddish-brown, moderately severely weathered, extremely fractured mudstone