



PROJECT NO. 8.2451201		ID. B-4139		COUNTY Harnett		GEOLOGIST S. JOHNSON/P.BYRD							
SITE DESCRIPTION BRIDGE 106 OVER BLACK RIVER ON S.R. 1780						GROUND WATER (ft)							
BORING NO. EB1-A		BORING LOCATION 16+80		OFFSET 8.0 ft LT		ALIGNMENT -L-							
COLLAR ELEV. 156.5 ft		NORTHING 558,259.7		EASTING 2,108,127.0		0 HR. N/A							
TOTAL DEPTH 59.8 ft		DRILL MACHINE MOBILE B-57		DRILL METHOD 3-1/4" HSA/ROTARY WASH W/2-15/16" DRAG BIT		HAMMER TYPE MANUAL							
DATE STARTED 5/6/03		COMPLETED 5/6/03		SURFACE WATER DEPTH N/A									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
156.5													ASPHALT PAVEMENT SURFACE
155.5	1.0	3	6	7									ASPHALT
153.0	3.5	2	3	3									ROADWAY EMBANKMENT FILL: MEDIUM DENSE TO LOOSE BROWN TO TAN FINE TO COARSE SAND (A-2-4)
150.5	6.0	2	1	2									WITH TRACE OF SILT AND CLAY
147.7	8.8	3	6	8									ALLUVIUM: VERY LOOSE TO MEDIUM DENSE GRAY FINE TO COARSE SAND (A-2-4)
143.2	13.3	4	6	8									WITH TRACE OF SILT, CLAY AND ORGANIC MATTER
138.2	18.3	6	6	8									MIDDENDORF FORMATION: STIFF TO VERY STIFF GRAY SILTY CLAY (A-7-6)
133.2	23.3	8	9	15									WITH TRACE OF FINE SAND
128.2	28.3	11	16	20									HARD GRAY AND GRAY-GREEN SILTY CLAY (A-7-5)
123.2	33.3	10	13	21									WITH TRACE OF FINE SAND
118.2	38.3	14	18	25									HARD GRAY SILTY CLAY (A-7-5)
113.2	43.3	18	26	34									WITH INTERBEDDED FINE SAND LAYERS
108.2	48.3	17	17	47									HARD GRAY SILTY CLAY (A-7-5)
103.2	53.3	10	13	16									MEDIUM DENSE TO DENSE GRAY FINE TO COARSE SAND (A-2-4)
98.2	58.3	12	20	22									WITH LITTLE TO TRACE OF SILT AND CLAY
													BORING TERMINATED AT ELEV. 96.7 FEET IN DENSE FINE TO COARSE SAND.
													1) ADVANCED 3-1/4" HSA TO 8.8 FEET. 2) ADVANCED 2-15/16" DRAG BIT TO 58.3 FEET. 3) RIVER WATER WITH SUPER MUD ADDED USED AS DRILLING FLUID. 4) DRILLING FLUID DENSITY APPROXIMATELY 62.4 PCF. 5) NO LOSS OF DRILLING FLUID OBSERVED.



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SITE DESCRIPTION BRIDGE 106 OVER BLACK RIVER ON S.R. 1780						GROUND WATER (ft)							
BORING NO. B1-B		BORING LOCATION 17+28		OFFSET 9.0 ft RT		ALIGNMENT -L-							
COLLAR ELEV. 146.4 ft		NORTHING 558,232.9		EASTING 2,108,170.2		0 HR. N/A							
TOTAL DEPTH 59.0 ft		DRILL MACHINE MOBILE B-57		DRILL METHOD ROTARY WASH W/2-7/8" TRICONE		HAMMER TYPE MANUAL							
DATE STARTED 5/5/03		COMPLETED 5/5/03		SURFACE WATER DEPTH 2.4 ft									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
148.8													RIVER LEVEL
146.4	0.0	1	1	3									RIVER BOTTOM
143.1	3.3	3	4	6									ALLUVIUM: LOOSE GRAY COARSE TO FINE SAND (A-2-4)
138.1	8.3	3	4	6									WITH LITTLE SILT AND CLAY AND TRACE OF GRAVEL
133.1	13.3	5	7	9									MIDDENDORF FORMATION: STIFF GRAY SILTY CLAY (A-7-6)
128.1	18.3	8	10	15									WITH TRACE OF FINE SAND
123.1	23.3	19	23	25									VERY STIFF TO HARD GRAY AND RED SILTY CLAY (A-7-5)
118.1	28.3	16	24	45									WITH TRACE OF FINE SAND
113.1	33.3	34	39	46									HARD GRAY FINE SANDY SILTY CLAY (A-6)
108.1	38.3	13	19	27									HARD GRAY SILTY CLAY (A-7-5)
103.1	43.3	17	18	19									WITH LITTLE FINE SAND
98.1	48.3	13	13	19									DENSE GRAY FINE TO COARSE SAND (A-2-4)
93.1	53.3	14	16	16									WITH LITTLE TO TRACE OF SILT AND CLAY
88.1	58.3	54	46/0.2										DENSE GRAY FINE TO COARSE SAND (A-1-b)
													WITH TRACE OF SILT AND CLAY
													HARD GRAY-GREEN SILTY CLAY (A-7-5)
													WITH TRACE OF FINE SAND
													1) ADVANCED 2-7/8" TRICONE ROLLER TO 58.3 FEET. 2) SET 3.6 FEET NW CASING (10.1 FEET TEMPORARY CASING). 3) RIVER WATER USED AS DRILLING FLUID. 4) DRILLING FLUID DENSITY APPROXIMATELY 62.4 PCF. 5) NO LOSS OF DRILLING FLUID OBSERVED.

NCDOT BORE SIN 1-074.GPJ NCDOT.GDT 5/28/03

NCDOT BORE SINGLE 51-074.GPJ NCDOT.GDT 5/28/03