



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. EB2-A		BORING LOCATION 18+58		OFFSET 8.0 ft LT		ALIGNMENT -L-								
COLLAR ELEV. 156.5 ft		NORTHING 558,221.8		EASTING 2,108,300.9		0 HR. N/A								
TOTAL DEPTH 59.9 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 5/7/03		COMPLETED 5/7/03		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							ASPHALT	0.0	
155.5	1.0										M		ROADWAY EMBANKMENT FILL: MEDIUM STIFF GRAY FINE SANDY SILTY CLAY (A-6)	0.8
152.6	3.9	9	3	3							M		LOOSE BROWN AND GRAY FINE SAND (A-2-4)	2.0
149.8	6.7	6	4	4									WITH LITTLE CLAY AND TRACE OF SILT	6.0
147.6	8.9	1	1	2							Sat.	SS-12 45.8%	ALLUVIUM: SOFT DARK GRAY COARSE TO FINE SANDY SILTY CLAY (A-6)	8.5
142.6	13.9	3	2	2									WITH LITTLE ORGANIC MATTER	12.5
138.1	18.4	4	3	7							Sat.		LOOSE GRAY FINE TO COARSE SAND (A-2-4)	15.0
133.1	23.4	6	7	9							W		WITH LITTLE SILT AND CLAY	
128.1	28.4	7	11	14							W		LOOSE GRAY FINE TO COARSE SAND (A-1-b)	
123.1	33.4	8	11	16							W		WITH TRACE OF CLAY AND GRAVEL	
118.1	38.4	11	18	31							W		MIDDENDORF FORMATION: STIFF TO HARD GRAY, GRAY AND RED AND GRAY-GREEN SILTY CLAY (A-7-6)	
113.1	43.4	11	18	31							W		WITH TRACE OF TO LITTLE FINE SAND	
108.1	48.4	22	22	32							M			
103.1	53.4	15	24	28								SS-13 23.1%	HARD GRAY-GREEN FINE SANDY CLAY (A-6)	42.0
108.1	48.4	13	16	32							Sat.		WITH LITTLE SILT	47.0
103.1	53.4	14	20	20							Sat.		DENSE GRAY COARSE TO FINE SAND (A-2-4)	52.0
98.1	58.4	14	15	30							Sat.		WITH LITTLE SILT AND TRACE OF ORGANIC MATTER	
											Sat.		DENSE GRAY FINE TO COARSE SAND (A-1-b)	59.9
													WITH TRACE OF SILT AND CLAY	
BORING TERMINATED AT ELEV. 96.6 FEET IN DENSE FINE TO COARSE SAND.														

NCDOT BORE SINGLE 51-074.GPJ NCDOT.GDT 5/29/03

- 1) ADVANCED 3-1/4" HSA TO 13.9 FEET.
- 2) ADVANCED 2-15/16" DRAG BIT TO 58.4 FEET.
- 3) RIVER WATER USED AS DRILLING FLUID.
- 4) DRILLING FLUID DENSITY APPROXIMATELY 62.4 PCF.
- 5) NO LOSS OF DRILLING FLUID OBSERVED.