S&ME
ENGINEERING • TESTING
ENVIRONMENTAL SERVICES

N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

PROJECT NO. 8.1040601	ID. B-3445	COUNTY CURRITUCK	GEOLOGIST S. JOHNSON
SITE DESCRIPTION Replacement of Bridge No. 7 on N.C. 615 Over Corey's Ditch			GROUND WATER (ft)
BORING NO. EB2-B	BORING LOCATION 25+14.7	OFFSET 17.7 ft RT	ALIGNMENT -L-	0 HR. N/A
COLLAR ELEV. 4.1 ft	NORTHING 1,029,188.3	EASTING 2,889,348.5	24 HR. 3.5 8/7/01
TOTAL DEPTH 85.7 ft	DRILL MACHINE Diedrich D-50	DRILL METHOD 3¼" H.S.A. & ROTARY WASH W/ 3-1/8" TRI-CONE ROLLER BIT	HAMMER TYPE MANUAL
DATE STARTED 8/6/01	COMPLETED 8/6/01	SURFACE WATER DEPTH N/A	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
4.1					GROUND SURFACE				4.1 / 0.0
4.1	0.0	1	1	1	2		M		ROADWAY EMBANKMENT FILL: VERY LOOSE BROWN SILTY FINE SAND (A-2-4) — 1.6 / 2.5
0.1	4.0	1	1	1	2	SS-2	32.1%		ALLUVIUM: VERY SOFT GRAY SLIGHTLY FINE SANDY SILTY CLAY WITH LITTLE ORGANIC MATTER (A-6)
-4.9	9.0	2	7	5	12		W		-5.9 / 10.0
									UNDIFFERENTIATED COASTAL PLAIN DEPOSITS: MEDIUM DENSE GRAY SILTY FINE SAND (A-2-4) — -7.4 / 11.5
-9.9	14.0	1	1	1	2		W		VERY SOFT TO SOFT DARK GRAY CLAYEY SILT WITH FINE SAND (A-4)
-14.9	19.0	1	2	1	3		W		-17.4 / 21.5
-19.9	24.0	4	10	12	22		Sat.		MEDIUM DENSE TO LOOSE GRAY SILTY FINE SAND WITH TRACE SHELL MATERIAL (A-2-4)
-25.1	29.2	8	7	3	10		Sat.		-27.6 / 31.7
-30.1	34.2	5	4	3	7		W		MEDIUM STIFF TO SOFT GRAY FINE SANDY SILT WITH TRACE SHELL MATERIAL (A-4)
-35.1	39.2	2	1	2	3		W		
-40.1	44.2	2	3	3	6		W		-42.6 / 46.7
-45.1	49.2	3	3	3	6		W		MEDIUM STIFF TO STIFF DARK GRAY SILTY CLAY WITH TRACE SHELL MATERIAL (A-7-5)
-50.1	54.2	4	4	3	7		W		
-55.1	59.2	3	3	3	6		W		
-60.1	64.2	3	3	4	7		W		
-65.1	69.2	4	5	5	10		W		
-70.1	74.2								

NCDOT BORE SINGLE 51-118.GPJ NCDOT.GDT 8/28/01

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-70.7					Continued from previous page				
		3	4	5	9		W		MEDIUM STIFF TO STIFF DARK GRAY SILTY CLAY WITH TRACE SHELL MATERIAL (A-7-5) *(continued)*
-75.1	79.2	3	4	5	9		W		
-80.1	84.2	4	4	4	8		W		-81.6 / 85.7
					BORING TERMINATED AT ELEV. -81.6' IN STIFF SILTY CLAY				1) ADVANCED 3-1/4" H.S.A. TO 24.0'. 2) ADVANCED 3-1/8" TRI-CONE ROLLER BIT TO 84.2'. 3) WATER FROM SOUND USED AS DRILLING FLUID. 4) TYPICAL DRILLING FLUID DENSITY 62.4pcf. 5) NO DRILLING FLUID LOSS OBSERVED.

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