



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

SHEET 1 OF 2

PROJECT NO. 34424.1.1		ID. R-2404A		COUNTY BERTIE		GEOLOGIST B. Deobald							
SITE DESCRIPTION Dual Structures on US 17 (Windsor Bypass) over Cashie River						GROUND WATER (ft)							
BORING NO. MB-4		BORING LOCATION		OFFSET		ALIGNMENT -L-							
COLLAR ELEV. 0.6 ft		NORTHING 830,685 US ft		EASTING 2,608,198 US ft		0 HR. Water							
TOTAL DEPTH 101.5 ft		DRILL MACHINE CME 45 on Buggy		DRILL METHOD Mud Rotary		HAMMER TYPE 140-lb Manual							
DATE STARTED 10/3/04		COMPLETED 10/4/05		SURFACE WATER DEPTH 0.2'									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100			
0.6													0.6
0.5	0.0	woh	woh	1	1						1	Sat.	-0.4 Alluvium: Muck
													1.0
-4.4	5.0										2	Sat.	-2.4 Alluvium: Gray, sandy CLAY (A-6) with trace organics
		9	8	6									3.0
-9.4	10.0										3	Sat.	
		5	6	7									
-14.4	15.0										4	W	
		7	11	16									
-19.4	20.0										5	W	
		6	13	17									
-24.4	25.0										6	W	
		7	10	5									
-29.4	30.0										7	W	-27.4 CPU: Gray, f. to cse. SAND (A-2-4)
		11	16	17									28.0
-34.4	35.0										8	W	
		8	16	21									
-39.4	40.0										9	W	-36.4 CPU: Gray, silty, CLAY (A-7-6) with very thinly bedded sand and trace organics
		2	3	4									37.0
-44.4	45.0										10	M	
		6	9	16									45.5
-49.4	50.0										11	W	
		13	15	19									
-54.4	55.0										12	W	
		9	13	20									
-59.4	60.0										13	Sat.	-57.9 Yorktown Fm: White, green and blue, f. sandy, clayey SILT (A-4) with little to trace shell fragments
		2	4	4									58.5
-64.4	65.0										14	W	
		5	5	11									
-69.4	70.0										15	M	
		90	10/0.1										
-74.4	75.0												

NCDOT BORE SINGLE 6008 GPI NC DOT GDT 10/8/04



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

SHEET 2 OF 2

PROJECT NO. 34424.1.1		ID. R-2404A		COUNTY BERTIE		GEOLOGIST B. Deobald			
SITE DESCRIPTION Dual Structures on US 17 (Windsor Bypass) over Cashie River						GROUND WATER (ft)			
BORING NO. MB-4		BORING LOCATION		OFFSET		ALIGNMENT -L-			
COLLAR ELEV. 0.6 ft		NORTHING 830,685 US ft		EASTING 2,608,198 US ft		0 HR. Water			
TOTAL DEPTH 101.5 ft		DRILL MACHINE CME 45 on Buggy		DRILL METHOD Mud Rotary		24 HR. Boring			
DATE STARTED 10/3/04		COMPLETED 10/4/05		SURFACE WATER DEPTH 0.2'		HAMMER TYPE 140-lb Manual			
ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft 0.5ft 0.5ft			BLOWS PER FOOT 0 20 40 60 80 100		SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION
-74.2					Continued from previous page				
		23	45	55/0.4			16	M	Yorktown Fm: White, green and blue, f. sandy, clayey Silt T (A-4) with little to trace shell fragments (continued)
-79.4	80.0								
		23	26	42			17	M/W	
-84.4	85.0								
		34	55	45/0.3			18	W	Yorktown Fm: Blue-green to gray-green, silty, f. to cse. SAND (A-2-4) with trace shell fragments
-89.4	90.0								
		12	16	20			19	W	
-94.4	95.0								
		13	20	20			20	M/W	
-99.4	100.0								
		7	13	19			21	W	Yorktown Fm: Gray-green, f. sandy CLAY (A-6)
									Boring terminated at Elevation - ft in Yorktown Fm: Gray-green, f. sandy CLAY (A-6)
									Bits Used: 0.25' side-discharge Finger Bit
									Drilling Fluid: Water



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

SHEET 1 OF 2

PROJECT NO. 34424.1.1		ID. R-2404A		COUNTY BERTIE		GEOLOGIST B. Parks									
SITE DESCRIPTION Dual Structures on US 17 (Windsor Bypass) over Cashie River						GROUND WATER (ft)									
BORING NO. MB-26		BORING LOCATION		OFFSET		ALIGNMENT -L-									
COLLAR ELEV. 1.1 ft		NORTHING 830,576		EASTING 2,608,195		0 HR.									
TOTAL DEPTH 99.4 ft		DRILL MACHINE CME 550		DRILL METHOD Mud Rotary		HAMMER TYPE 140-lb Manual									
DATE STARTED 10/5/04		COMPLETED 10/6/04		SURFACE WATER DEPTH NA											
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT				SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100					
1.1															
1.1	0.0	1	0	1	1						1	W	1.1	0.0	Alluvium: Tan brown to gray black, silty, f. SAND (A-2-4) with trace to some organics and trace mica
-2.5	3.6	2	1	1	2						2	W			
-7.5	8.6	woh	woh	woh	3						3	M	-5.9	7.0	CPU: Gray blue, silty, CLAY (A-6)
-12.5	13.6	2	4	8	4						4	M	-10.9	12.0	CPU: Gray blue to brown, silty, f. sandy CLAY (A-7-6) with trace mica and trace organics
-17.5	18.6	13	17	24	5						5	W	-15.9	17.0	CPU: Blue gray to gray, silty, f. to cse SAND (A-3) with trace mica and trace organics
-22.5	23.6	9	8	8	6						6	W			
-26.8	27.9	7	10	14	7						7	W			
-31.8	32.9	10	13	15	8						8	W			
-36.8	37.9	20	13	15	9						9	W			
-41.8	42.9	2	2	3	10						10	M	-39.9	41.0	CPU: Gray blue, f. sandy, silty CLAY (A-7-6) with trace organics
-46.8	47.9	6	10	15	11						11	W	-44.9	46.0	CPU: Gray, silty, f. to cse. SAND (A-3) with trace mica
-51.8	52.9	8	20	20	12						12	W			
-56.8	57.9	10	14	22	13						13	W			
-61.8	62.9	7	8	9	14						14	M			
-66.8	67.9	6	8	15	15						15	M	-64.4	65.5	Yorktown Fm: Dark green and white, glauconitic, f. sandy, clayey, SILT (A-4) with shell fragments
-71.8	72.9	17	30	34	16						16	M			

NC DOT BORE SINGL. J8 GP1 NC DOT GDT 10/8/04



SHEET 2 OF 2

NCDOT BORE SINGL -08.GPJ NC DOT.GDT 10/8/04



SHEET 1 OF 2

NC DOT 309E SINGL. J8.GPJ NC DOT.GDT 10/8/04



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

SHEET 2 OF 2

PROJECT NO. 34424.1.1		ID. R-2404A		COUNTY BERTIE		GEOLOGIST M. Lear							
SITE DESCRIPTION Dual Structures on US 17 (Windsor Bypass) over Cashie River							GROUND WATER (ft)						
BORING NO. MB-33		BORING LOCATION		OFFSET		ALIGNMENT -L-							
COLLAR ELEV. -4.7 ft		NORTHING 830,137 US ft		EASTING 2,607,242 US ft		0 HR. Water							
TOTAL DEPTH 103.1 ft		DRILL MACHINE CME 55 Barge		DRILL METHOD Mud Rotary		HAMMER TYPE 140-lb Manual							
DATE STARTED 10/6/04		COMPLETED 10/6/04		SURFACE WATER DEPTH 4.9'									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
		0.5ft	0.5ft	0.5ft	0	20	40	60	80	100			
-79.5		Continued from previous page											
-81.3	76.6	33	47	33						17	W		Yorktown Fm: Dark green and gray, glauconitic, silty, f. to cse. SAND (A-2-4) with thinly to very thinly bedded, indurated, calcite cemented sandstone and trace shell fragments (continued) 80.0
-86.3	81.6	10	12	17						18	W		Yorktown Fm: Dark green and gray, silty, f. to cse. SAND (A-3) with trace shell fragments 85.0
-91.3	86.6	12	9	9						19	W		Yorktown Fm: Dark green, glauconitic, clayey, silty, f. to cse. SAND (A-2-4) with trace shell fragments 90.0
-96.3	91.6	15	8	8						20	W		Yorktown Fm: Dark-gray brown, f. to cse. sandy, clayey, SILT (A-4)
-101.3	96.6	4	7	12						21	W		
-106.3	101.6	4	3	5						22	W		
													Boring terminated at Elevation -112.5 ft in Yorktown Fm: Dark-gray brown, f. to cse. sandy, clayey, SILT (A-4) Bits Used: 0.25' side-discharge Finger Bit Drilling Fluid: Water