



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 (MACTEC Proj. No. 6468-04-0808)			GROUND WATER (ft)
BORING NO. MB-8	BORING LOCATION	OFFSET	ALIGNMENT -L-
COLLAR ELEV. 0.3 ft	NORTHING 830,482 US ft	EASTING 2,607,696 US ft	0 HR. Water 24 HR. Boring
TOTAL DEPTH 95.8 ft	DRILL MACHINE CME 45 Marsh Buggy	DRILL METHOD Mud Rotary	HAMMER TYPE 140-lb Manual
DATE STARTED 10/27/04	COMPLETED 10/28/04	SURFACE WATER DEPTH 0.7 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	
0.3					Mudline							0.3		
0.3	0.0	2	2	2								Sat	Alluvium: No Recovery-MUCK	0.0
-4.0	4.3	8	9	12								W	Alluvium: Tan-gray to white, silty, f. to cse. SAND (A-3) w/ trace organics	-2.5
-9.0	9.3	7	9	9								W		
-14.3	14.6	5	5	7								W	Alluvium: Gray-white, cse. SAND and GRAVEL (A-1-a)	-13.2
-19.0	19.3	1	2	3								M	Alluvium: Gray-brown, micaceous, f. sandy, clayey SILT (A-4) w/ trace organics	-17.2
-24.0	24.3	2	2	2								M	Alluvium: Gray-green, silty CLAY (A-7-6) w/ trace organics	-22.2
-29.0	29.3	2	2	2								M		
-34.0	34.3	2	4	4								M		
-39.0	39.3	3	3	3								W	CPU: Light gray-green, thinly interbedded, silty f. SAND (A-3) and f. sandy, silty CLAY (A-6)	-37.2
-44.0	44.3	6	6	9								W		
-49.0	49.3	5	6	22								W	CPU: Gray, f. to cse. SAND (A-3) w/ trace to little gravel	-46.7
-54.0	54.3	11	13	10								W		
-59.0	59.3	11	21	13								W		
-64.0	64.3	5	10	11								M	Yorktown Fm: Dark green, glauconitic, f. sandy, clayey SILT (A-4)	-62.2
-69.0	69.3	8	13	23								M	Yorktown Fm: Dark green and white, silty, clayey, f. to cse. SAND (A-2-6) w/ trace v. thinly bedded, friable, calcite cemented SANDSTONE layers and shell fragments	-67.2
-74.0	74.3													

NCDOT BORE SINGLE 0808.GPJ NC DOT.GDT 10/29/04



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SITE DESCRIPTION Dual Structures on US 17 (Windsor Bypass) over Cashie River (MACTEC Proj. No. 6468-04-0808)							GROUND WATER (ft)
BORING NO. MB-8		BORING LOCATION		OFFSET		ALIGNMENT -L-	0 HR. Water
COLLAR ELEV. 0.3 ft		NORTHING 830,482 US ft		EASTING 2,607,696 US ft			24 HR. Boring
TOTAL DEPTH 95.8 ft		DRILL MACHINE CME 45 Marsh Buggy		DRILL METHOD Mud Rotary		HAMMER TYPE 140-lb Manual	
DATE STARTED 10/27/04		COMPLETED 10/28/04		SURFACE WATER DEPTH 0.7 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			
-74.5					Continued from previous page							
-79.0	79.3	13	10	21							M	
-84.0	84.3	19	17	23							W	Yorktown Fm: Dark green and gray, clayey, silty, f. to cse. SAND (A-2-4) w/ trace shell fragments and thinly bedded, mod. indurated, calcite cemented SANDSTONE layer(s)
-89.0	89.3	17	17	18							W	
-94.0	94.3	23	32	23							W	Yorktown Fm: Dark green, glauconitic, f. to cse. sandy, SILT (A-4) w/ trace shell fragments
		16	14	17							W	Boring terminated at 95.8 ft (Elev. -95.5 ft) in Yorktown Fm: Hard, glauconitic, f. to cse. sandy, SILT (A-4) w/ trace shell fragments
												Bits Used: 0.3' Roller Cone Drilling Fluid Properties: 8.8 lbs/gal