NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 42270.1.1	**TIP** B-5124	**COUNTY** NASH	**GEOLOGIST** Oti, O. B.	
SITE DESCRIPTION BRIDGE NO. 151 ON US 301 (-L-) OVER SWIFT CREEK				**GROUND WTR (ft)**
BORING NO. B2-B	**STATION** 55+23	**OFFSET** 3 ft RT	**ALIGNMENT** -L-	**0 HR.** N/A
COLLAR ELEV. 86.3 ft	**TOTAL DEPTH** 65.3 ft	**NORTHING** 849,804	**EASTING** 2,369,847	**24 HR.** N/A
DRILL RIG/HAMMER EFF./DATE RFO0074 CME-55 92% 07/12/2011		**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Automatic	
DRILLER Conley, H. R.	**START DATE** 03/12/14	**COMP. DATE** 03/12/14	**SURFACE WATER DEPTH** 4.2ft	

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 25 50 75 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION — ELEV. (ft)	DEPTH (ft)
90								▼		WATER SURFACE (03/12/14)	
	86.3	0.0								86.3 GROUND SURFACE	0.0
85			1	1	1	2		Sat.		**ALLUVIAL** TAN AND BROWN, SAND AND SILTY SAND	
	82.7	3.6	1	2	2	4		Sat.		83.3	3.0
80										78.3	8.0
	77.7	8.6	1	1	1	2		W		**COASTAL PLAIN** GRAY, SILTY CLAY AND SANDY SILT WITH SHELL FRAGMENTS (YORKTOWN FORMATION)	
75											
	72.7	13.6	1	1	1	2		W			
70											
	67.7	18.6	1	1	2	3		W			
65											
	62.7	23.6	1	2	3	5		W			
60											
	57.7	28.6	12	20	25	45		W			
55										54.3	32.0
	52.5	33.8	6	12	17	29		W			
50										49.3	37.0
	47.5	38.8	14	20	29	49		W			
45										44.3	42.0
	42.5	43.8	6	10	15	25		W			
40										39.3	47.0
	37.5	48.8	4	8	11	19		Sat.		GREEN AND GRAY, SILTY SAND	
35											
	32.5	53.8	7	11	13	24		Sat.			
30											
	27.5	58.8	10	11	13	24		Sat.			
25											
	22.5	63.8	7	24	44	68		W		23.3	63.0
										RESIDUAL GRAY, WHITE AND BLACK, SAPROLITIC, CLAYEY SILT	
										21.0	65.3
										Boring Terminated at Elevation 21.0 ft IN HARD SILT	

WBS 42270.1.1	**TIP** B-5124	**COUNTY** NASH	**GEOLOGIST** Oti, O. B.	
SITE DESCRIPTION BRIDGE NO. 151 ON US 301 (-L-) OVER SWIFT CREEK				**GROUND WTR (ft)**
BORING NO. EB2-B	**STATION** 55+58	**OFFSET** 3 ft RT	**ALIGNMENT** -L-	**0 HR.** N/A
COLLAR ELEV. 94.7 ft	**TOTAL DEPTH** 78.5 ft	**NORTHING** 849,839	**EASTING** 2,369,848	**24 HR.** 4.2
DRILL RIG/HAMMER EFF./DATE RFO0074 CME-55 92% 07/12/2011		**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Automatic	
DRILLER Conley, H. R.	**START DATE** 03/11/14	**COMP. DATE** 03/11/14	**SURFACE WATER DEPTH** N/A	

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 25 50 75 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
95										94.7 GROUND SURFACE	0.0
	92.7	2.0	2	2	7	9		M		93.2 (PAVEMENT)	1.5
90										**ROADWAY EMBANKMENT** TAN AND BROWN, SILTY SAND	
	87.7	7.0	1	1	2	3		W		89.2	5.5
85										**ALLUVIAL** GRAY, SILTY CLAY	
	82.7	12.0	1	1	2	3		W/Sat.		82.2	12.5
80										GRAY SAND WITH GRAVEL	
	77.7	17.0	1	2	2	4	SS-1	W		79.2	15.5
75										**COASTAL PLAIN** GRAY, SILTY CLAY AND SANDY CLAY WITH SHELL FRAGMENTS (YORKTOWN FORMATION)	
	72.7	22.0	1	1	1	2		W			
70											
	67.7	27.0	1	1	3	4		W			
65											
	62.7	32.0	1	2	3	5		W			
60											
	57.7	37.0	10	18	26	44	SS-2	W			
55										54.2	40.5
	52.7	42.0	6	10	16	26	SS-3	W			
50										49.2	45.5
	47.7	47.0	10	20	22	42	SS-4	W			
45										44.2	50.5
	42.7	52.0	7	11	14	25		W			
40										39.2	55.5
	37.7	57.0	8	10	12	22		Sat.		GREEN AND GRAY, SILTY SAND	
35											
	32.7	62.0	6	6	6	12		Sat.			
30											
	27.7	67.0	9	10	16	26		Sat.			
25										24.2	70.5
	22.7	72.0	6	9	13	22	SS-5	W		**RESIDUAL** GREEN, GRAY AND WHITE, SAPROLITIC, CLAYEY SILT	
20											
	17.7	77.0	8	12	20	32		W		16.2	78.5
										Boring Terminated at Elevation 16.2 ft	