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. EB1-B	STATION 54+13	OFFSET 3 ft RT	ALIGNMENT -L-	0 HR. N/A
COLLAR ELEV. 94.6 ft	TOTAL DEPTH 73.6 ft	NORTHING 849,694	EASTING 2,369,843	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 03/14/14	COMP. DATE 03/14/14	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 ELEV. (ft)	DEPTH (ft)
95										94.6 GROUND SURFACE	0.0
										93.1 (PAVEMENT)	1.5
	92.6	2.0	3	4	2	6		M-Sat.		**ROADWAY EMBANKMENT** TAN AND BROWN, SILTY SAND	
90										89.1	5.5
	87.6	7.0	2	2	2	4		W		**ALLUVIAL** GRAY, SILTY CLAY	
85										84.1	10.5
	82.6	12.0	3	5	4	9		Sat.		TAN AND GRAY SAND	
80										79.1	15.5
	77.6	17.0	1	2	2	4		W		**COASTAL PLAIN** GRAY, SILTY CLAY WITH SHELL FRAGMENTS (YORKTOWN FORMATION)	
75											
	72.6	22.0	2	3	4	7		W			
70											
	67.6	27.0	1	1	3	4		W			
65											
	62.6	32.0	1	2	2	4		W			
60											
	57.6	37.0	10	20	27	47		W			
55											
	52.5	42.1	7	13	15	28		W			
50											
	47.5	47.1	15	22	35	57		W			
45											
	42.5	52.1	8	16	20	36		W			
40											
	37.5	57.1	7	13	16	29		W			
35										34.1	60.5
	32.5	62.1	6	7	9	16		Sat.		TAN AND GRAY, SILTY SAND	
30											
	27.5	67.1	9	12	20	32		Sat.			
25											
	22.5	72.1	6	8	12	20		Sat.		21.0 Boring Terminated at Elevation 21.0 ft IN MED. DENSE SAND	73.6

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. B1-B	STATION 54+53	OFFSET 3 ft RT	ALIGNMENT -L-	0 HR. N/A
COLLAR ELEV. 89.9 ft	TOTAL DEPTH 73.5 ft	NORTHING 849,734	EASTING 2,369,844	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 03/13/14	COMP. DATE 03/13/14	SURFACE WATER DEPTH 0.8ft	

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 (03/13/14)	
	89.9	0.0	1	1	1	2		W		89.9 GROUND SURFACE	0.0
	87.4	2.5	1	2	3	5	SS-6	W		87.9 **ALLUVIAL** TAN AND GRAY, SILTY CLAY AND SANDY SILT	2.0
85										83.9	6.0
	82.4	7.5	1	2	2	4		Sat.		TAN AND GRAY, SILTY SAND	
80										78.9	11.0
	77.4	12.5	1	1	2	3		W		**COASTAL PLAIN** GRAY, SILTY CLAY AND SANDY CLAY WITH SHELL FRAGMENTS (YORKTOWN FORMATION)	
75											
	72.4	17.5	1	2	5	7		W			
70											
	67.4	22.5	1	1	2	3		W			
65											
	62.4	27.5	1	2	2	4		W			
60											
	57.4	32.5	11	18	25	43		W			
55											
	52.9	37.0	8	14	18	32		W			
50											
	47.9	42.0	7	13	14	27		W			
45											
	42.9	47.0	8	13	19	32		W			
40										39.4	50.5
	37.9	52.0	8	15	18	33		W			
35										34.4	55.5
	32.9	57.0	12	12	16	28		Sat.		GRAY, SILTY SAND	
30											
	27.9	62.0	9	15	14	29		Sat.			
25											
	22.9	67.0	12	16	17	33		Sat.			
20										17.9	72.0
	17.9	72.0	20	38	52	90		W		16.4 **RESIDUAL** BLACK, GRAY AND WHITE, SAPROLITIC, CLAYEY SILT	73.5
										Boring Terminated at Elevation 16.4 ft IN VERY DENSE SAND	

NCDOT BORE DOUBLE B5124_GEO_BRDG0151_SPT_BORINGS.GPJ NC_DOT.GDT 5/2/14