NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 38688.1.2	**TIP** I-0914BA	**COUNTY** VANCE	**GEOLOGIST** Contract Geologist
SITE DESCRIPTION SITE #1: BRIDGE NO. 27 ON -Y1- (NC 39) OVER -NBL-&-SBL- (I-85)			**GROUND WTR (ft)**
BORING NO. B1-A	**STATION** 21+50	**OFFSET** 35 ft LT	**ALIGNMENT** -Y1-	**0 HR.** N/A
COLLAR ELEV. 428.5 ft	**TOTAL DEPTH** 21.1 ft	**NORTHING** 943,297	**EASTING** 2,173,625	**24 HR.** FIAD
DRILL RIG/HAMMER EFF./DATE SME1524 CME-45B 87% 10/07/2011		**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** 11/04/13	**COMP. DATE** 11/04/13	**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)
430											
										428.5 GROUND SURFACE	0.0
	427.1	1.4								427.1 **ROADWAY EMBANKMENT** ASPHALT	1.4
425	425.0	3.5	7	7	7	14		M		425.5 **ROADWAY EMBANKMENT** ORANGE, BROWN, AND GRAY, SANDY CLAY	3.0
	422.5	6.0	6	10	11	21		M		**RESIDUAL** BROWN, ORANGE, AND GRAY, SANDY SILT WITH MICA	
420	420.0	8.5	9	12	14	26		M			
			6	8	7	15		M			
415	415.0	13.5	23	42	28	70		M			
	412.6	15.9	60/0.1			60/0.1				413.0	15.5
410	411.0	17.5	100/0.5			100/0.5				412.6 **WEATHERED ROCK** (MICA-GNEISS)	15.9
	409.3	19.2								412.0 **CRYSTALLINE ROCK** (MICA-GNEISS)	16.5
	408.5	20.0	100/0.3			100/0.3					
	407.6	20.9	100/0.3			100/0.3				407.4 **WEATHERED ROCK** (MICA-GNEISS)	21.1
			60/0.2			60/0.2				Boring Terminated at Elevation 407.4 ft IN WEATHERED ROCK (MICA-GNEISS)	

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SITE DESCRIPTION SITE #1: BRIDGE NO. 27 ON -Y1- (NC 39) OVER -NBL-&-SBL- (I-85)			**GROUND WTR (ft)**
BORING NO. B1-B	**STATION** 21+84	**OFFSET** 23 ft RT	**ALIGNMENT** -Y1-	**0 HR.** N/A
COLLAR ELEV. 427.5 ft	**TOTAL DEPTH** 38.0 ft	**NORTHING** 943,250	**EASTING** 2,173,576	**24 HR.** 8.5 Caved
DRILL RIG/HAMMER EFF./DATE SME1524 CME-45B 87% 10/07/2011		**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** 11/01/13	**COMP. DATE** 11/01/13	**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
430										
	427.5	0.0								427.5 GROUND SURFACE 0.0
	425.9	1.6	2	1	2	3		M		425.4 **ROADWAY EMBANKMENT** TAN, SILTY SAND 2.1
425	423.4	4.1	4	8	8	16		M		**RESIDUAL** TAN-ORANGE, SANDY SILT WITH TRACE MICA
	420.9	6.6	3	4	5	9		M		
420			32	28	24	52		W		417.9 9.6
415	415.9	11.6	41	59/0.4		100/0.9				**WEATHERED ROCK** (MICA-GNEISS)
410	410.9	16.6	29	59	41/0.3	100/0.8				
405	405.9	21.6	100/0.2			100/0.2				
400	400.9	26.6	21	76	24/0.1	100/0.6				
395	395.9	31.6	100/0.7			100/0.7				
390	390.9	36.6	100/0.2			100/0.2				
	389.5	38.0	60/0.0			60/0.0				389.5 38.0
										Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 389.5 ft ON CRYSTALLINE ROCK (MICA-GNEISS)