NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 38688.1.2	**TIP** I-0914BA	**COUNTY** VANCE	**GEOLOGIST** Contract Geologist
SITE DESCRIPTION SITE #3: BRIDGE NO. 49 ON -Y5SBL- (US 1 BYPASS) OVER -NBL- (I-85)			**GROUND WTR (ft)**
BORING NO. EB1-A	**STATION** 19+89	**OFFSET** 22 ft LT	**ALIGNMENT** -Y5SBL- — **0 HR.** 36.2
COLLAR ELEV. 409.0 ft	**TOTAL DEPTH** 62.5 ft	**NORTHING** 954,256	**EASTING** 2,187,998 — **24 HR.** 24.0
DRILL RIG/HAMMER EFF./DATE F&R3495 CME-55 84% 12/14/2012	**DRILL METHOD** H.S. Augers	**HAMMER TYPE** Automatic	
DRILLER Contract Driller	**START DATE** 10/25/13	**COMP. DATE** 10/25/13	**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)
410											
	409.0	0.0	1	1	1	2		M		409.0 GROUND SURFACE	0.0
405	405.5	3.5	3	2	3	5		M		407.9 **ROADWAY EMBANKMENT** GRAY, SILTY FINE SAND WITH TRACE ORGANICS (ROOTS)	1.1
										TAN AND RED, SILTY CLAY WITH TRACE SAND	
400	400.5	8.5	6	6	8	14		M		402.0 TAN, PINK, AND GRAY, SILTY FINE SAND	7.0
395	395.5	13.5	5	5	5	10		M			
390	390.5	18.5	3	4	4	8		M		392.0 GRAY, TAN, AND RED, SILTY CLAY WITH TRACE FINE SAND AND ORGANICS (WOOD FRAGMENTS)	17.0
385	385.5	23.5	1	2	2	4		W			
380	380.5	28.5	1	2	2	4		W		379.0 **ALLUVIAL** GRAY AND ORANGE, SILTY FINE SAND WITH TRACE CLAY	30.0
375	375.5	33.5	6	5	5	10		Sat.			
370	370.5	38.5	8	11	9	20		Sat.			
365	365.5	43.5	12	22	24	46		W		367.0 **RESIDUAL** TAN, GRAY, PINK, AND WHITE, SILTY FINE SAND, SAPROLITIC	42.0
360	360.5	48.5	28	31	17	48		M			
355	355.5	53.5	18	82/0.3		100/0.8				357.0 **WEATHERED ROCK** (METAMORPHOSED GRANITC ROCK)	52.0
350	350.5	58.5	60/0.0			60/0.0				350.5 **CRYSTALLINE ROCK** (METAMORPHOSED GRANITC ROCK)	58.5
	346.5	62.5	60/0.0			60/0.0				346.5 Boring Terminated with Standard Penetration Test Refusal at Elevation 346.5 ft in CRYSTALLINE ROCK (METAMORPHOSED GRANITIC ROCK)	62.5

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SITE DESCRIPTION SITE #3: BRIDGE NO. 49 ON -Y5SBL- (US 1 BYPASS) OVER -NBL- (I-85)			**GROUND WTR (ft)**
BORING NO. EB1-B	**STATION** 20+44	**OFFSET** 23 ft RT	**ALIGNMENT** -Y5SBL- — **0 HR.** 38.3
COLLAR ELEV. 413.5 ft	**TOTAL DEPTH** 63.9 ft	**NORTHING** 954,212	**EASTING** 2,187,942 — **24 HR.** 27.0
DRILL RIG/HAMMER EFF./DATE F&R3495 CME-55 84% 12/14/2012	**DRILL METHOD** H.S. Augers	**HAMMER TYPE** Automatic	
DRILLER Contract Driller	**START DATE** 10/28/13	**COMP. DATE** 10/28/13	**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	DEPTH (ft)
415											
	413.5	0.0	1	2	2	4		M		413.5 GROUND SURFACE	0.0
410	410.0	3.5	3	3	3	6		M		412.3 **ROADWAY EMBANKMENT**	1.2
										411.5 GRAY AND TAN, SILTY FINE SAND WITH TRACE ORGANICS (ROOTS)	2.0
										TAN AND RED, SILTY CLAY WITH TRACE ORGANICS (ROOTS)	
										TAN AND PINK, SILTY FINE SAND	
405	405.0	8.5	39	11	11	22		M		404.0 TAN AND RED, SILTY CLAY	9.5
400	400.0	13.5	6	12	7	19		M		401.5 TAN, RED, AND GRAY, SILTY FINE SAND	12.0
395	395.0	18.5	20	29	14	43		M			
390	390.0	23.5	15	16	9	25		W			
385	385.0	28.5	13	19	11	30		W		386.7 GRAY, SILTY CLAY	26.8
380	380.0	33.5	6	11	8	19		Sat.		383.5 **ALLUVIAL** GRAY AND ORANGE, SILTY FINE SAND	30.0
375	375.0	38.5	8	11	10	21		Sat.			
370	370.0	43.5	16	16	20	36		Sat.			
365	365.0	48.5	17	28	35	63		M		366.3 **RESIDUAL** TAN, GRAY, AND PINK, SILTY FINE SAND, SAPROLITIC	47.2
360	360.0	53.5	30	42	58/0.4	100/0.9				359.5 **WEATHERED ROCK** (METAMORPHOSED GRANITIC ROCK)	54.0
355	355.0	58.5	53	47/0.3		100/0.8					
350	350.0	63.5	100/0.4			100/0.4				349.6 Boring Terminated at Elevation 349.6 ft in WEATHERED ROCK (METAMORPHOSED GRANITIC ROCK)	63.9

NCDOT BORE DOUBLE I-0914BA_GEO_BH_BRDG0049.GPJ NC_DOT.GDT 11/13/13