NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 38398.1.1	**TIP** B-4511	**COUNTY** FORSYTH	**GEOLOGIST** Murray, C. C.
SITE DESCRIPTION BRIDGE 201 OVER KERNER'S MILL CREEK ON SR 2667 (HASTINGS HILL RD.)			**GROUND WTR (ft)**
BORING NO. EB1-A	**STATION** 18+22	**OFFSET** 14 ft LT	**ALIGNMENT** -L- / **0 HR.** 7.0
COLLAR ELEV. 812.9 ft	**TOTAL DEPTH** 57.1 ft	**NORTHING** 863,252	**EASTING** 1,661,426 / **24 HR.** NM
DRILL RIG/HAMMER EFF./DATE HFO0066 CME-550 82% 01/09/2013		**DRILL METHOD** NW Casing w/ Advancer	**HAMMER TYPE** Automatic
DRILLER Estep, J. E.	**START DATE** 10/09/13	**COMP. DATE** 10/09/13	**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))
815										
										812.9 GROUND SURFACE 0.0
								M		**ROADWAY EMBANKMENT** RED-BRN & RED SOFT TO MED. STIFF MOIST TO WET LOW (PI=15) PLASTIC SILTY SANDY CLAY (A-6)
810	810.9	2.0	2	2	2	4	SS-11	W		809.4 3.5
										ALLUVIAL LT. GRAY V. LOOSE WET LOW (PI=13) PLASTIC SILTY CLAYEY SAND (A-2-6)
805	805.9	7.0	0	0	1	1	SS-12	W		
										801.9 11.0
										ALLUVIAL LT. GRAY V. LOOSE WET SILTY CLAYEY SAND (A-2-4)
800	800.9	12.0	0	0	1	1	SS-13	W		
795	795.9	17.0	0	0	0	0		W		794.4 18.5
										ALLUVIAL GRAY-WHITE V. LOOSE TO MED. DENSE WET CSE. SAND (A-1-B) W/ TRACE GRAVEL @ 27.0
790	790.9	22.0	3	0	1	1	SS-15	W		
785	785.9	27.0	6	12	11	23		W		784.6 28.3
										RESIDUAL TAN-BLACK MED. DENSE WET TO MOIST SILTY SAND (A-2-4)
780	780.9	32.0	6	8	10	18		W		
775	775.9	37.0	5	9	9	18		M		
770	770.9	42.0	8	12	15	27	SS-19	M		
										767.9 45.0
										WEATHERED ROCK TAN-BLACK-WHITE SEV. WEATH. CRYSTALLINE ROCK W/ TRACE MICA @ 52.0
765	765.9	47.0	18	22	78	100		M		
760	760.9	52.0	64	38/0.5		100		M		
	755.9	57.0	60/0.1			60/.1				755.9 57.0
										755.8 57.1 **CRYSTALLINE ROCK**
										Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 755.8 ft IN CRYSTALLINE ROCK

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SITE DESCRIPTION BRIDGE 201 OVER KERNER'S MILL CREEK ON SR 2667 (HASTINGS HILL RD.)			**GROUND WTR (ft)**
BORING NO. EB1-B	**STATION** 18+22	**OFFSET** 15 ft RT	**ALIGNMENT** -L- / **0 HR.** 7.0
COLLAR ELEV. 813.0 ft	**TOTAL DEPTH** 58.3 ft	**NORTHING** 863,235	**EASTING** 1,661,402 / **24 HR.** 7.0
DRILL RIG/HAMMER EFF./DATE HFO0066 CME-550 82% 01/09/2013		**DRILL METHOD** NW Casing w/ Advancer	**HAMMER TYPE** Automatic
DRILLER Smith, C. L.	**START DATE** 10/15/13	**COMP. DATE** 10/15/13	**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
815										
										813.0 GROUND SURFACE 0.0
										ROADWAY EMBANKMENT RED-BRN & RED MED. STIFF MOIST SILTY SANDY CLAY (A-6)
810	811.2	1.8	3	3	4	7		M		809.0 4.0
										ALLUVIAL GRAY V. LOOSE TO LOOSE WET SILTY CLAYEY SAND (A-2-6)
805	806.2	6.8	2	1	7	8		W		
800	801.2	11.8	0	1	2	3		W		799.0 14.0
										ALLUVIAL GRAY V. LOOSE TO MED. DENSE WET CLAYEY SILTY SAND (A-2) W/ LITTLE MICA
795	796.2	16.8	3	1	2	3		W		
790	791.2	21.8	3	5	6	11		W		788.0 25.0
										RESIDUAL TAN-BLACK MED. DENSE TO V. DENSE WET TO MOIST SILTY SAND (A-2) W/ LITTLE TO TRACE MICA & SEV. WEATH. CRYSTALLINE ROCK SEAM @ 46.8
785	786.2	26.8	15	15	17	32		W		
780	781.2	31.8	6	7	9	16		M		
775	776.2	36.8	1	16	17	33		M		
770	771.2	41.8	19	17	24	41		M		
765	766.2	46.8	40	60/0.4		100/.9		M		
760	761.2	51.8	41	34	44	78		M		
755	756.2	56.8	43	40	44	84		M		754.7 58.3
										Boring Terminated at Elevation 754.7 ft IN V. DENSE MOIST SILTY SAND (A-2)

NCDOT BORE DOUBLE B4511_GEO_BH_BRDG0201_FORSYTH.GPJ NC_DOT.GDT 11/14/13