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. EB2-A	**STATION** 19+15	**OFFSET** 14 ft LT	**ALIGNMENT** -L-	**0 HR.** NM
COLLAR ELEV. 812.9 ft	**TOTAL DEPTH** 48.7 ft	**NORTHING** 863,176	**EASTING** 1,661,480	**24 HR.** 7.0
DRILL RIG/HAMMER EFF./DATE HFO0066 CME-550 82% 01/09/2013		**DRILL METHOD** NW Casing w/ Advancer & Tri-Cone	**HAMMER TYPE** Automatic
DRILLER Estep, J. E.	**START DATE** 10/08/13	**COMP. DATE** 10/08/13	**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
810	811.2	1.7	4	3	4	7		M		**ROADWAY EMBANKMENT** RED-BRN & RED-GRAY MED. STIFF MOIST SILTY SANDY CLAY (A-6) 809.4	3.5
805	806.2	6.7	0	0	0	0	SS-2	W		**ALLUVIAL** GRAY V. SOFT WET LOW (PI=13, 11) PLASTIC SILTY SANDY CLAY (A-6) 797.9	15.0
800	801.2	11.7	0	0	1	1	SS-3	W			
795	796.2	16.7	1	1	0	1	SS-4	W		**ALLUVIAL** GRAY V. SOFT WET CLAYEY SANDY SILT (A-4) 792.9	20.0
790	791.2	21.7	1	0	1	1	SS-5	W		**ALLUVIAL** GRAY V. LOOSE WET SAND (A-2-4) 787.5	25.4
785	786.2	26.7	5	6	9	15		W		**RESIDUAL** WHITE-GRAY-BLACK & OLIVE-GREEN MED. DENSE WET SILTY SAND (A-2-4) W/ TRACE TO HIGH MICA	
780	781.2	31.7	5	6	12	18	SS-7	W			
775	776.2	36.7	60	40/0.2		100/.7		W		776.2 **WEATHERED ROCK** WHITE & OLIVE TO GRAY & TAN SEV. WEATH. CRYSTALLINE ROCK W/ TRACE TO LITTLE MICA (CRYSTALLINE ROCK LAYER @ 44.0)	36.7
770	769.9	43.0	26	75	60/0.1	60/.1		W			
765	764.9	48.0	57	43/0.2		100/.2				764.2 Boring Terminated at Elevation 764.2 ft IN SEV. WEATH. CRYSTALLINE ROCK	48.7

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SITE DESCRIPTION BRIDGE 201 OVER KERNER'S MILL CREEK ON SR 2667 (HASTINGS HILL RD.)			**GROUND WTR (ft)**
BORING NO. EB2-B	**STATION** 19+12	**OFFSET** 14 ft RT	**ALIGNMENT** -L-	**0 HR.** 5.0
COLLAR ELEV. 813.3 ft	**TOTAL DEPTH** 48.1 ft	**NORTHING** 863,162	**EASTING** 1,661,455	**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 Smith, C. L.	**START DATE** 10/16/13	**COMP. DATE** 10/16/13	**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										813.3 GROUND SURFACE 0.0
810	811.1	2.2	4	3	4	7		M		**ROADWAY EMBANKMENT** RED & GRAY MED. STIFF TO SOFT MOIST SILTY SANDY CLAY (A-6)
805	806.1	7.2	2	2	1	3		M		805.3 8.0 **ALLUVIAL** GRAY V. SOFT SAT. SILTY SANDY CLAY (A-6)
800	801.1	12.2	1	0	0	0		Sat.		798.3 15.0 **ALLUVIAL** GRAY V. SOFT WET CLAYEY SANDY SILT (A-4)
795	796.1	17.2	1	0	1	1		W		793.3 20.0 **ALLUVIAL** GRAY LOOSE WET CSE. SAND (A-1-B) W/ TRACE MICA
790	791.1	22.2	1	2	2	4	SS-38	W		786.3 27.0 **RESIDUAL** GREEN MED. DENSE TO DENSE MOIST SILTY SAND (A-2) W/ HIGH MICA & QTZ. VEINS
785	786.1	27.2	2	8	22	30		M		
780	781.1	32.2	29	16	15	31		M		
775	776.1	37.2	45	55/0.2		100/.7		M		776.1 37.2 **WEATHERED ROCK** TAN & WHITE MOIST SEV. WEATH. CRYSTALLINE ROCK W/ GREEN V. DENSE MOIST SILTY SAND (A-2) LAYER @ 42.2
770	771.1	42.2	14	23	36	59		M		
	766.1	47.2	42	58/0.4		100/.9				765.2 48.1 Boring Terminated at Elevation 765.2 ft IN SEV. WEATH. CRYSTALLINE ROCK

NCDOT BORE DOUBLE B4511_GEO_BH_BRDG0201_FORSYTH.GPJ NC_DOT.GDT 11/15/13