

SOIL CLASSIFICATION AND GRADATION SHEET

BRIDGE #503 ON SR-1674 OVER BUFFALO CREEK  
 NCDOT Project No: 8.2711901 T.I.P. No: B-3607.

ASHE COUNTY

TIERRA, INC. PROJECT NO: 6211-03-016

BORING #		SAMPLE #	TOTAL SAMPLE			MINUS 2.00 mm FRACTION				Atterberg Limits		MC
AASHTO Classification			PERCENT PASSING			PERCENT RETAINED				LL	PI	%
STATION #	OFFSET (FEET)	DEPTH (FEET)	#10	#40	#200	Coarse Sand	Fine Sand	SILT	CLAY			
EB1B		SS-1	95	80	33	30	43	9	18	36	NP	
A-2-4 (0)												
10+22	12' RT	3.5 - 5.0										
EB2A		SS-2	77	65	34	26	36	11	27	34	9	
A-2-4 (0)												
11+30	20' LT	3.5 - 5.0										
EB2A		SS-3	99	72	22	42	44	9	5	25	NP	
A-2-4 (0)												
11+30	20' LT	13.5 - 15.0										
EB2B		SS-4	81	70	31	25	45	12	18	27	NP	
A-2-4 (0)												
11+33	8' RT	8.5 - 10.0										
EB2B		SS-5	100	80	22	39	48	8	5	34	NP	
A-2-4 (0)												
11+33	8' RT	13.5 - 15.0										
EB2B		S-1	92	83	40	20	45	12	23	29	6	1.5
A-4 (0)												
11+33	8' RT	11.0 - 13.0										

LABORATORY SUMMARY SHEET FOR ROCK CORE SAMPLES

PROJECT NO.: 8.2711901 (B-3607)  
 F.A. NO.: BRZ - 1674(3)  
 COUNTY: ASHE  
 BRIDGE 503 ON SR 1674 OVER BUFFALO CREEK

Sample #	Boring #	Depth (ft)	Rock Type	Geologic Map Unit	Run RQD	Length (in)	Diameter (in)	Unit Weight (pcf)	Unconfined Compressive Strength (psi)	Young's Modulus (psi)	Splitting Tensile Strength (psi)	Remarks
RS - 1	EB1-A	14.2 - 14.7	amphibolite gneiss	Zata	26.0%	3.96	2.50	166.40	7,927.80	1,022,460	N/A	
RS - 2	EB1-B	9.1 - 9.7	amphibolite gneiss	Zata	64.6%	4.90	2.50	172.60	12,849.70	1,052,710	N/A	