

**Summary of Laboratory Results
Soil Classification and Gradation**

Borehole	Sample	Depth (ft)	AASHTO Classification	% Passing Sieve #			Soil Mortar Fraction				Plasticity Index	Moisture Content (%)	Organic Content (%)	
				10	40	60	200	Coarse Sand % Retained on No. 60	Fine Sand	Silt				Clay
EB1-A	SS-1	3.50 - 5.00	A-2-4 (0)	90	62	40	16	55	31	8	6	11		
EB1-A	SS-2	8.80 - 10.30	A-2-4 (0)	100	87	47	17	53	32	5	10	10		
B1-B	SS-3	0.00 - 1.50	A-2-4 (0)	77	63	54	31	30	37	18	15	18		
B1-B	SS-4	13.30 - 14.80	A-6 (8)	100	99	97	72	3	30	58	9	35	24.0	
B1-B	SS-5	38.30 - 39.80	A-7-5 (32)	100	99	98	88	1	17	27	55	67	33.5	
B1-B	SS-6	53.30 - 54.80	A-1-b (0)	99	47	22	6	78	17	3	2	9		
B2-A	SS-7	0.00 - 1.50	A-1-b (0)	86	40	11	3	88	10	0	2	18		
B2-A	SS-8	16.90 - 18.40	A-6 (1)	100	99	97	38	3	67	17	13	37	27.4	
B2-A	SS-9	31.90 - 33.40	A-7-6 (16)	100	97	95	68	5	33	19	43	49	24.5	
B2-A	SS-10	56.90 - 57.90	A-7-5 (35)	100	100	100	98	0	2	43	55	65	32.5	
B3-B	SS-11	0.00 - 1.50	A-3 (0)	100	53	15	2	85	13	0	2	17		
EB2-A	SS-12	6.70 - 8.20	A-6 (7)	99	94	86	65	12	29	38	21	36	45.8	9.9
EB2-A	SS-13	43.40 - 44.90	A-6 (6)	100	100	98	51	2	57	20	21	40	23.1	

PROJECT DESCRIPTION: Bridge 106 over Black River on S.R. 1780
 STATE PROJECT No.: 8.2451201
 TIP No.: B-4139
 FEDERAL I.D. No. BRSTP-1780(1)
 COUNTY: Harnett, NORTH CAROLINA
 S&ME JOB No.: 1051-03-074
 CHECKED BY: AFR/JSJ