

North Carolina Department of Transportation
Division of Highways
Materials and Test Unit
Soils Laboratory

T.I.P. ID NO.: B-3865
DESCRIPTION: Bridge No. 212 over Little River on SR 1002

REPORT ON SAMPLES OF: SOIL FOR QUALITY

PROJECT: 8.2312601
DATE SAMPLED: June 2003
SAMPLED FROM: -L-
SUBMITTED BY: E.C. Howey, L.G., P.E.

COUNTY: Johnston
RECEIVED: 6/30/03
REPORTED: 7/3/03
BY: R.H. Calder

TEST RESULTS

PROJ. SAMPLE NO.	EB1-A	EB1-B	EB1-B	B1-A	B1-A	B3-A	B3-B	EB2-A	EB2-A	EB2-B	EB2-B						
BORING NO.	SS-9	SS-7	SS-8	SS-14	SS-15	SS-17	SS-20	SS-4	SS-5	SS-1	SS-2						
Retained #4 Sieve %	0.0	0.0	0.0	0.3	0.0	0.8	0.3	0.0	0.0	2.6	0.0						
Passing #10 Sieve %	98.9	98.1	98.1	97.7	100.0	97.5	99.1	96.4	100.0	93.4	96.5						
Passing #40 Sieve %	88.9	73.8	87.0	66.3	97.8	79.3	89.7	72.0	89.1	64.1	78.2						
Passing #200 Sieve %	62.3	42.4	51.6	33.1	66.2	61.0	39.2	45.2	39.8	36.2	50.8						

SOIL MORTAR - 100%																	
Coarse Sand Ret - #60 %	14.4	32.7	16.6	42.6	7.4	25.3	29.6	36.6	22.6	41.8	28.9						
Fine Sand Ret - #270 %	28.0	29.0	36.4	27.4	30.8	13.7	34.9	18.8	40.3	22.5	24.4						
Silt 0.053 - 0.010 mm %	47.3	27.6	31.7	18.4	32.0	27.7	16.3	17.7	16.1	22.0	25.7						
Clay < 0.010 mm %	10.3	10.7	15.3	11.6	29.8	33.3	19.2	26.9	21.0	13.7	21.0						
L.L.	24	25	26	21	26	37	19	22	32	17	32						
P.L.	NP	NP	22	NP	19	23	17	14	23	NP	24						
P.I.	NP	NP	4	NP	7	14	2	8	9	NP	8						
AASHTO Classification	A-4(0)	A-4(0)	A-4(0)	A-2-4(0)	A-4(3)	A-6(7)	A-4(0)	A-4(1)	A-4(1)	A-4(0)	A-4(2)						
Station	19+83	19+83	19+83	20+43	20+43	22+33	22+33	23+13	23+13	23+13	23+13						
Offset	16' LT	16' RT	16' RT	11' LT	11' LT	11' LT	11' RT	16' LT	16' LT	16' RT	16' RT						
Depth (ft)	0.0	0.0	3.5	0.0	3.5	0.0	4.0	0.0	3.5	0.0	3.5						
to	1.5	1.5	5.0	1.5	5.0	1.5	5.0	1.5	5.0	1.5	5.0						
Moisture Content (%)	27.8	12.7	25.6	13.8	22.5	33.3	16.8	14.8	18.7	14.3	22.5						

NP=Not plastic

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