

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

M&T Form 503

T.I.P. ID NO.: R-2552B

REPORT ON SAMPLES OF: SOIL FOR QUALITY

PROJECT: 8.T311002  
DATE SAMPLED: July 2001  
SAMPLED FROM: -Y11-REV  
SUBMITTED BY: L.B. Gilchrist

COUNTY: Johnston  
RECEIVED: 16/07/2001  
REPORTED: 24/07/2001  
BY: R.H. Calder

PROJ. SAMPLE NO.	EB1-A	EB1-A	EB1-B	EB1-B	EB1-B		
LAB SAMPLE NO.	SS-1	SS-3	SS-2	ST-1	ST-2		
Retained #4 Sieve %	0.0	0.0	0.0	0.0	0.0		
Passing #10 Sieve %	100.0	99.0	99.8	99.1	99.6		
Passing #40 Sieve %	76.1	84.0	97.7	96.9	97.3		
Passing #200 Sieve %	23.4	40.1	56.6	59.1	75.4		

SOIL MORTAR - 100%							
Coarse Sand Ret - #60 %	50.4	24.4	7.1	7.1	5.7		
Fine Sand Ret - #270 %	26.4	41.7	42.6	38.2	21.3		
Silt 0.053 - 0.010 mm %	12.9	30.1	31.0	34.0	51.5		
Clay < 0.010 mm %	10.3	3.8	19.3	20.7	21.5		
L.L.	27	34	27	31	29		
P.L.	NP	NP	19	20	21		
P.I.	NP	NP	8	11	8		
AASHTO Classification	A-2-4(0)	A-4(0)	A-4(2)	A-6(4)	A-4(5)		
Station	14+54.23	14+54.23	14+51.77	14+52.30	14+57.70		
Hole No.							
Offset	4.60 m Lt.	4.60 m Lt.	4.60 m Rt.	4.00 m Rt.	4.00 m Rt.		
Depth (m)	0.00	2.89	1.07	1.07	1.07		
to	0.17	3.04	1.52	1.52	1.52		
Moisture Content (%)	16.9	14.0	25.5	30.9	25.9		

Not Plastic  
NCDOT not charged for moisture content: EB1-A, SS-1

E.C. Howey, L.G., P.E.  
Soils Engineer

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PROJ. SAMPLE NO.	B1-A	B1-A	B1-A	B1-B	B1-B	B2-B	
LAB SAMPLE NO.	SS-1	SS-2	SS-5	SS-3	SS-5	SS-3	
Retained #4 Sieve %	0.0	0.0	0.0	4.0	20.3	0.0	
Passing #10 Sieve %	100.0	100.0	99.7	95.9	78.1	100.0	
Passing #40 Sieve %	90.6	97.1	81.2	94.6	68.8	99.8	
Passing #200 Sieve %	26.0	57.0	36.8	37.9	39.4	52.0	

SOIL MORTAR - 100%							
Coarse Sand Ret - #60 %	33.4	10.1	28.7	7.9	18.7	2.2	
Fine Sand Ret - #270 %	42.3	36.8	40.8	59.9	36.4	51.3	
Silt 0.053 - 0.010 mm %	14.3	33.2	27.6	20.5	36.4	33.2	
Clay < 0.010 mm %	10.0	19.9	2.9	11.7	8.5	13.3	
L.L.	27	30	29	22	32	28	
P.L.	NP	20	NP	NP	28	23	
P.I.	NP	10	NP	NP	4	5	
AASHTO Classification	A-2-4(0)	A-4(3)	A-4(0)	A-4(0)	A-4(0)	A-4(1)	
Station	14+65.84	14+65.84	14+65.84	14+64.16	14+64.16	14+79.19	
Hole No.							
Offset	3.13 m Lt.	3.13 m Lt.	3.13 m Lt.	3.13 m Rt.	3.13 m Rt.	3.13 m Rt.	
Depth (m)	0.10	0.61	2.66	1.07	2.59	1.07	
to	0.45	1.06	3.04	1.52	3.04	1.52	
Moisture Content (%)	25.7	33.2	11.7	20.7	16.2	31.8	

NP=Not Plastic  
NCDOT not charged for moisture content: B1-A, SS-1

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Soils Engineer