

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY
 MATERIALS & TESTS UNIT
 SOILS LABORATORY

T. I. P. No. R-2562C

REPORT ON SAMPLES OF SOILS FOR QUALITY

Project 34467.1.6 County BLADEN Owner _____
 Date: Sampled 1/4/04 Received 1/20/04 Reported 1/22/2004
 Sampled from -L- REV By K. B. MILLER
 Submitted by N.W. WAINAINA 1995 Standard Specifications

710865 TO 710875
 5/19/04

TEST RESULTS

Proj. Sample No.	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
Lab. Sample No.	710865	710866	710867	710868	710869	710870
Retained 4.75 mm Sieve %	2	-	-	-	-	-
Passing 2.00 mm Sieve %	98	100	99	96	100	98
Passing 425 µm Sieve %	91	87	69	55	85	67
Passing 75 µm Sieve %	20	5	14	22	60	12

MINUS 2.00 mm FRACTION

SOIL MORTAR - 100%						
Coarse Sand Ret - 250 µm %	22.9	33.1	47.2	62.0	21.9	70.1
Fine Sand Ret - 53 µm %	57.8	64.6	41.0	15.4	24.9	19.0
Silt 0.05 - 0.005 mm %	9.2	0.2	1.6	4.4	39.0	1.7
Clay < 0.005 mm %	10.1	2.0	10.1	18.2	14.2	9.1
Passing 425 µm Sieve %	-	-	-	-	-	-
Passing 75 µm Sieve %	-	-	-	-	-	-

L. L.	27	22	20	47	45	24
P. I.	NP	NP	NP	33	24	NP
AASHTO Classification	A-2-4(0)	A-3(0)	A-2-4(0)	A-2-7(2)	A-7-6(12)	A-2-4(0)
Station	178+66	178+66	178+66	178+66	178+66	178+66
Offset	4.5m RT	4.5m RT	4.5m RT	4.5m RT	4.5m RT	4.5m RT
Hole No.	BX	BX	BX	BX	BX	BX
Depth (M)	1.22	3.98	5.51	7.03	8.56	11.60
to	1.68	4.44	5.97	7.47	9.02	12.06

cc: K.B. MILLER
 Soils File

NCDOT SOILS LAB
 Soils Engineer

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SHEET NO.	TOTAL SHEETS
40	46

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TEST RESULTS

Proj. Sample No.	SS-7	SS-8	SS-9	SS-10	SS-11	MS-1
Lab. Sample No.	710871	710872	710873	710874	710875	710854
Retained 4.75 mm Sieve %	-	-	-	5	-	-
Passing 2.00 mm Sieve %	100	99	100	91	97	
Passing 425 µm Sieve %	42	92	98	89	95	
Passing 75 µm Sieve %	7	9	22	46	64	

MINUS 2.00 mm FRACTION

SOIL MORTAR - 100%						
Coarse Sand Ret - 250 µm %	81.0	61.6	15.1	8.7	4.3	
Fine Sand Ret - 53 µm %	12.5	29.6	67.6	47.6	44.2	
Silt 0.05 - 0.005 mm %	0.5	1.7	6.2	23.4	29.3	
Clay < 0.005 mm %	6.1	7.1	11.1	20.3	22.3	
Passing 425 µm Sieve %	-	-	-	-	-	-
Passing 75 µm Sieve %	-	-	-	-	-	-

L. L.	20	20	24	36	43	
P. I.	NP	NP	NP	12	14	
AASHTO Classification	A-1-b(0)	A-3(0)	A-2-4(0)	A-6(3)	A-7-6(8)	
Station	178+66	178+66	178+66	178+66	178+66	178+66
Offset	4.5m RT	4.5m RT	4.5m RT	4.5m RT	4.5m RT	4.5m RT
Hole No.	BX	BX	BX	BX	BX	BX
Depth (M)	14.65	17.70	19.22	20.75	23.80	8.56
to	15.11	18.16	19.68	21.21	24.26	9.02
% Moisture						23.6

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