



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

M&T Form 503

T.I.P. ID NO.: B-3877

REPORT ON SAMPLES OF: SOIL FOR QUALITY

PROJECT: 33321.1.1 COUNTY: Nash
DATE SAMPLED: 10/2004 RECEIVED: 11/1/2004
SAMPLED FROM: -L- REPORTED: 11/15/2004
SUBMITTED BY: E.C. Howey BY: R.H. Calder

TEST RESULTS

PROJ. SAMPLE NO.	EB1-A	EB1-A	EB1-B	B1-A	B1-B	B2-A	B2-B
LAB SAMPLE NO.	SS-6	SS-8	SS-4	SS-23	SS-26	SS-44	SS-38
Retained #4 Sieve %	1.4	1.5	0.0	14.3	0.0	0.6	0.0
Passing #10 Sieve %	91.4	97.9	99.6	65.2	100.0	94.4	100.0
Passing #40 Sieve %	79.3	96.1	98.9	30.8	99.6	81.5	98.9
Passing #200 Sieve %	56.8	75.8	48.9	8.3	86.3	65.5	56.1

MINUS #10 FRACTION

SOIL MORTAR - 100%							
Coarse Sand Ret - #60 %	19.4	4.2	3.8	64.0	0.9	18.3	6.5
Fine Sand Ret - #270 %	20.0	19.6	52.2	24.2	15.6	14.6	38.6
Silt 0.053 - 0.010 mm %	39.9	54.6	40.3	7.7	66.0	58.1	30.7
Clay < 0.010 mm %	20.7	21.6	3.7	4.1	17.5	9.0	24.2
L.L.	32	32	26	19	29	41	32
P.L.	16	19	24	NP	18	35	20
P.I.	16	13	2	NP	11	6	12
AASHTO Classification	A-6 (6)	A-6 (8)	A-4 (0)	A-1-b (0)	A-6 (8)	A-5 (4)	A-6 (4)
Station	24+90	24+90	24+92	25+56	25+56	26+24	26+21
Offset	15 ft LT	15 ft LT	15 ft RT	6 ft LT	6 ft LT	6 ft LT	5 ft RT
Depth (m)	0.0	8.5	13.5	10.0	5.0	9.8	0.0
to	1.5	10.0	15.0	11.5	6.5	10.8	1.5
Moisture Content (%)	14.5	27.6	23.8	N/A	24.2	19.1	40.5
Organic Content (%)							

NT = Not Tested
NP = Not Plastic
NA = Not Applicable

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



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TEST RESULTS

PROJ. SAMPLE NO.	EB2-A	EB2-A	EB2-B			
LAB SAMPLE NO.	SS-14	SS-15	SS-31			
Retained #4 Sieve %	0.0	0.0	0.0			
Passing #10 Sieve %	99.6	70.3	100.0			
Passing #40 Sieve %	95.2	47.4	99.5			
Passing #200 Sieve %	84.7	31.7	92.5			

MINUS #10 FRACTION

SOIL MORTAR - 100%						
Coarse Sand Ret - #60 %	5.9	38.1	1.0			
Fine Sand Ret - #270 %	10.0	20.2	7.0			
Silt 0.053 - 0.010 mm %	41.7	31.9	43.8			
Clay < 0.010 mm %	42.4	9.8	48.2			
L.L.	57	30	56			
P.L.	24	25	32			
P.I.	33	5	24			
AASHTO Classification	A-7-6 (30)	A-2-4 (0)	A-7-5 (27)			
Station	26+71	26+71	26+70			
Offset	12 ft LT	12 ft LT	13 ft RT			
Depth (ft)	13.5	18.5	8.5			
to	15.0	20.0	10.0			
Moisture Content (%)	31.3	16.2	33.0			
Organic Content (%)						

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