

JJL  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT  
SOILS TEST REPORT-SOILS LABORATORY

M&T 503E

T.I.P. ID #: \_\_\_\_\_

REPORT ON SAMPLES OF:		Soil for Classification						
PROJECT:	8.2951901	COUNTY:	Henderson	Owner:	--			
DATE SAMPLED:	1-8-03	DATE RECEIVED:	1-21-03	DATE REPORTED:	1-30-03			
SAMPLED FROM:	Rdwy -L- Rdw Evaluation	SAMPLED BY:	L L Acker					
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION					
LABORATORY:	Asheville							

TEST RESULTS

Project Sample No.	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8
Lab Sample No. A-	140376	140377	140378	140379	140380	140381	140382	140383
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	66	98	100	100	92	91	100	100
Passing #40 Sieve %	58	87	97	88	79	88	99	99
Passing #200 Sieve %	30	51	54	18	36	48	40	21

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	24	16	10	36	25	8	8	7
Fine Sand - Ret. #270	39	40	43	52	53	26	64	80
Silt 0.05-0.005 mm %	25	24	11	2	16	24	14	7
Clay < 0.005 mm %	12	20	36	10	6	42	14	6
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	--	--	--	--

Liquid Limit	30	27	32	22	30	43	26	30
Plastic Index	NP	7	12	NP	NP	19	NP	NP
AASHTO Classification	A-2-4 (0)	A-4 (3)	A-6 (5)	A-2-4 (0)	A-4 (0)	A-7-6 (7)	A-4 (1)	A-2-4 (0)
Quantity								
Texture								
Station	23+00 Rt	23+00 Rt	23+00 Rt	23+00 Rt	23+00 Rt	22+00 Rt	21+62 Rt	21+62 Rt
Hole No.								
Depth (ft) From:	0.0	3.3	7.8	12.8	17.8	5.6	2.5	7.5
To:	2.0	4.3	9.3	14.3	19.4	7.1	4.0	9.0

Remarks:  
A-140376 through A-140393

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER: \_\_\_\_\_

JJL  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT  
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #: \_\_\_\_\_

REPORT ON SAMPLES OF:		Soil for Classification						
PROJECT:	8.2951901	COUNTY:	Henderson	Owner:	--			
DATE SAMPLED:	1-9-03	DATE RECEIVED:	1-21-03	DATE REPORTED:	1-30-03			
SAMPLED FROM:	Rdwy -L- Rdw Evaluation	SAMPLED BY:	L L Acker & D P Murphy					
SUBMITTED BY:	W D Frye	2002	STANDARD SPECIFICATION					
LABORATORY:	Asheville							

TEST RESULTS

Project Sample No.	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16
Lab Sample No. A-	140384	140385	140386	140387	140388	140389	140390	140391
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	46	87	99	100	99	93		100
Passing #40 Sieve %	26	74	98	98	73	84	100	90
Passing #200 Sieve %	6	32	58	10	8	40	60	18

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	61	27	2	19	70	21	1	20
Fine Sand - Ret. #270	30	50	46	74	25	52	51	69
Silt 0.05-0.005 mm %	3	17	26	3	1	19	24	5
Clay < 0.005 mm %	6	6	26	4	4	8	24	6
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	--	--	--	--

Liquid Limit	20	35	32	21	15	25	30	30
Plastic Index	NP	NP	7	NP	NP	NP	3	NP
AASHTO Classification	A-1-a (0)	A-2-4 (0)	A-4 (5)	A-2-4 (0)	A-2-4 (0)	A-4 (1)	A-4 (5)	A-2-4 (0)
Quantity								
Texture								
Station	21+62 Rt	21+62 Rt	20+00 Rt	20+00 Rt	20+00 Rt	20+00 Rt	19+00 Rt	19+00 Rt
Hole No.								
Depth (ft) From:	12.5	17.5	3.1	8.1	13.1	18.1	2.9	7.9
To:	13.5	19.0	4.6	9.6	14.6	19.6	4.4	9.4

Remarks:  
A-140376 through A-140393

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER: \_\_\_\_\_