CATLIN ENGINEERS AND SCIENTISTS

Description: **Bridge on Hope Mills Bypass (-L-) over Beaver Creek**

T.I.P No: U-0620
Project: 8.1442601

County: Cumberland
Date Sampled:
Submitted by: Charles Ray

Received: 6/28/01

Reported: 7/10/01
AASHTO Standard Specifications (As modified by NCDOT, Material and Tests Unit, 2000.)

TEST RESULTS

Field Sample No.		SS-18	SS-19	SS-20	SS-21	SS-22	SS-23	SS-24	SS-25	SS-26	SS-27	SS-28	SS-29	SS-30	GS-01	GS-02	GS-03
Lab Sample No.		SS-18	SS-19	SS-20	SS-21	SS-22	SS-23	SS-24	SS-25	SS-26	SS-27	SS-28	SS-29	SS-30	GS-01	GS-02	GS-03
Retained #4 Sieve	%	0.1	0.4	0.8	0.2	1.1	0.5	0.5	0.6	3.0	0.6	1.6	0.1	0.9	1.8	3.2	6.6
Passing #10 Sieve	%	98.8	93.6	97.0	88.6	89.6	87.0	94.4	96.6	84.3	83.0	74.0	90.5	88.7	95.3	93.8	82.8
Passing #40 Sieve	%	42.2	63.1	53.5	69.2	25.9	75.9	90.6	58.0	61.5	75.2	65.8	74.2	65.3	94.2	68.2	59.7
Passing #200 Sieve	%	1.7	23.7	22.7	25.9	10.6	47.7	6.6	25.0	19.4	50.3	40.7	41.1	16.8	11.2	12.9	3.8

MINUS NO. 10 FRACTION

SOIL MORTAR- 100%																	
Coarse Sand Ret-#60	%	83.7	54.7	67.4	50.7	84.1	30.0	22.4	62.7	56.3	29.9	38.9	37.0	52.9	23.3	51.8	60.2
Fine Sand Ret-#270	%	15.1	22.7	10.6	25.0	6.1	28.3	74.7	13.3	25.7	24.9	31.8	26.5	33.6	67.0	38.3	38.8
Silt 0.05 - 0.005mm	%	0.3	2.9	2.2	1.3	1.8	23.3	1.5	1.0	13.9	31.0	17.4	14.7	1.7	7.7	1.9	0.4
Clay <0.005mm	%	0.9	19.7	19.8	23.0	8.0	18.4	1.4	23.0	4.1	14.2	11.9	21.8	11.8	2.0	8.0	0.6

L.L.	20	32	37	31	48	32	21	35	34	34	34	31	24	20	17	17
P.I.	NP	18	17	17	35	20	NP	18	18	19	12	12	NP	NP	NP	NP
AASHTO Class. /Group Index	A-1-b/0	A-2-6/1	A-2-6/1	A-2-6/1	A-2-7/0	A-6/0	A-3/0	A-2-6/1	A-2-6/0	A-6/6	A-6/1	A-6/1	A-2-4/0	A-2-4/0	A-2-4/0	A-3/0
Station	32+68.7	32+68.7	32+68.7	32+68.7	32+68.7	32+68.7	33+12.9	33+12.9	33+12.9	33+12.9	33+12.9	33+12.9	33+12.9	32+44.0	31+83.0	32+48.4
Offset	40.7 Lt.	40.7 Lt.	40.7 Lt.	40.7 Lt.	40.7 Lt.	40.7 Lt.	54.5 Rt.	54.5 Rt.	54.5 Rt.	54.5 Rt.	54.5 Rt.	54.5 Rt.	54.5 Rt.	0.0	35.2 Lt.	42.0 Lt.
Boring	EB2-A	EB2-A	EB2-A	EB2-A	EB2-A	EB2-A	EB2-B	EB2-B	EB2-B	EB2-B	EB2-B	EB2-B	EB2-B	Creek Bed	Bank-1	Bank-2
Depth (ft)	13.0	18.0	23.0	28.0	33.0	38.0	4.5	12.5	22.5	32.5	37.5	42.5	47.5	0.0	1.0	1.0
to	14.5	19.5	24.5	29.5	34.5	39.5	6.0	14.0	24.0	34.0	39.0	44.0	49.0	0.5	3.0	3.0
Moisture Content	24.0	18.0	19.0	15.0	20.0	16.0	28.0	16.0	16.0	20.0	20.0	17.0	19.0	29.0	12.0	13.0

NP = Non-Plastic

Laboratory Manager

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