

**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:

Received: 6/28/01

Submitted by:

Charles Ray

Reported: 7/10/01

AASHTO Standard Specifications  
(As modified by NCDOT, Material  
and Tests Unit, 2000.)

**TEST RESULTS**

Field Sample No.	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	SS-12	SS-13	SS-15	SS-16	SS-17
Lab Sample No.	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	SS-12	SS-13	SS-15	SS-16	SS-17
Retained #4 Sieve %	2.9	0.5	1.3	0	0	0	0	0	6.3	0.7	0.4	0.3	0.9	0.4	0.3	7.0
Passing #10 Sieve %	87.2	97.6	93.3	99.2	99.2	95.4	100.0	99.9	82.5	93.8	91.7	84.2	85.2	94.8	96.3	77.4
Passing #40 Sieve %	16.8	79.5	42.2	85.7	66.6	34.3	95.3	88.9	29.2	73.1	33.9	69.5	69.7	77.8	55.5	50.6
Passing #200 Sieve %	4.8	3.8	12.0	60.6	21.3	12.9	86.2	62.3	1.9	29.6	14.7	42.9	28.5	27.9	19.5	4.1

**MINUS NO. 10 FRACTION**

SOIL MORTAR- 100%																
Coarse Sand Ret-#60 %	91.4	61.4	73.9	22.7	50.7	72.4	6.6	18.8	87.8	50.6	77.5	38.8	45.2	41.8	66.3	66.3
Fine Sand Ret-#270 %	4.1	35.3	15.0	19.9	30.2	16.0	9.9	24.7	11.0	21.0	8.6	22.1	30.9	32.1	15.2	31.0
Silt 0.05 - 0.005mm %	4.5	1.4	3.1	19.0	15.1	7.6	34.2	36.4	0.1	3.0	2.0	19.4	10.1	5.2	4.6	0.7
Clay <0.005mm %	0.0	1.9	8.0	38.4	4.0	4.0	49.3	20.0	1.1	25.4	11.9	19.7	13.8	20.9	13.9	2.0

L.L.	18	13	38	38	39	42	56	30	32	31	38	44	42	23	34	22
P.I.	NP	NP	21	28	NP	NP	44	18	19	14	21	28	18	8	10	5
AASHTO Class. /Group Index	A-1-b/0	A-3/0	A-2-6/0	A-6/13	A-2-4/0	A-1-b/0	A-7-6/39	A-6/8	A-2-6/0	A-2-6/1	A-2-6/3	A-7-6/7	A-2-7/1	A-2-4/0	A-2-4/0	A-2-4/0
Station	31+72.9	31+71.9	31+72.9	31+72.9	31+72.9	31+72.9	31+72.9	31+72.9	31+71.9	31+71.9	31+71.9	31+71.9	31+71.9	32+59.0	32+59.0	32+68.7
Offset	54.5 Rt.	29.9 Lt.	54.5 Rt.	54.5 Rt.	54.5 Rt.	54.5 Rt.	54.5 Rt.	54.5 Rt.	29.9 Lt.	29.9 Lt.	29.9 Lt.	29.9 Lt.	29.9 Lt.	0.0	0.0	40.7 Lt.
Boring	EB1-B	B1-A	EB1-B	EB1-B	EB1-B	EB1-B	EB1-B	EB1-B	B1-A	B1-A	B1-A	B1-A	B1-A	B2-C	B2-C	EB2-A
Depth (ft)	6.0	9.0	18.5	23.5	28.5	33.5	38.5	43.5	19.0	24.0	29.0	44.0	49.0	20.5	25.5	3.0
to	7.5	10.5	20.0	25.0	30.0	35.0	40.0	45.0	20.5	25.5	30.5	45.5	50.5	22.0	27.0	4.5
Moisture Content	18.0	25.0	24.0	17.0	22.0	18.0	29.0	18.0	17.0	18.0	23.0	20.0	21.0	17.0	20.0	23.0

NP = Non-Plastic

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