Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 9/03

ROUTE IL 125 DESCRIPTION Culvert at 76+61 .5 mile East of Bluff Springs LOGGED BY M. Metcalf

SECTION LOCATION NE 14, SEC. 28, TWP. 18 N, RNG. 11 W, 3 PM

COUNTY Cass DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 009-7000
Station 76+61

BORING NO. 1 NE WW
Station 76+71 +/-
Offset 13.0ft Lt
Ground Surface Elev. 523 ft

Surface Water Elev. 508 ft
Stream Bed Elev. No Data ft

Groundwater Elev.:
First Encounter 502.0 ft
Upon Completion Water Added ft
After Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown Moist SILT (Fill)			1		
Poor Recovery			1 3	1.5 P	25
			1		
Poor Recovery			2 1	0.5 P	25
Brown Moist SILT	518.00	-5	1		
			2 3	0.7 B	23
			1		
Light Brown and Light Grey w/ Reddish Brown Oxidation Spots			2 3	0.8 B	25
Light Brown V. Moist V. Fine Grained Sandy SILT w/Black Oxidation Spots Classification Sample 1-1	513.00	-10	0		
			2 2	0.4 B	26
			0		
			1 2	0.0 Slump	27
SILT	508.00	-15	0		
Light Greyish Brown Moist SILT w/ Grey Veigning Classification Sample 1-2			0 1	0.6 B	30
			0		
			0 2	0.4 B	28
		-20			

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SILT (continued)			0		
Free Water			0 2	0.4 B	24
Grey V. Moist SILT			2 2	0.0 Slump	30
		-25	0		
			0 4	0.6 B	35
			0		
w/Black Organic Lenses Sample 1-3			0 2	0.0 Slump	33
		-30	0		
			1 2	0.1 B	30
			0		
			1 2	0.2 B	35
		-35	0		
Dark Grey V. Moist SILT w/Roots (Paleosol)			0 1	0.2 B	41
			0		
Dark Grey V. Moist SILT			0 1	0.1 B	31
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name S:\SOIL\CASS\BLUFF SPRINGS CULVERT ON IL 125 76+61\BLUFF.GDT Date Printed 12/9/9
Latitude Longitude Datum Job Number

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Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SILT (continued)	481.00				
Grey Wet V. Fine Grained Sandy SILT			0		
			0 1	0.0 Slump	31
		-45	0		
			1 1	0.2 B	24
Grey V. Moist V. Weathered SILTY CLAY (Till)		-50			
Grey Moist SILT	471.00		0		
			1 1	0.4 B	22
		-55			
		-60			

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey Moist SILT (continued)			0		
Dark Grey Added Water in Augers			5 10	0.5 B	32
Greenish Grey Moist CLAY LOAM (Till)	458.00	-65	1		
			6 10	2.1 S-10	24
Boring Completed STA, Elevation obtained from 06/1954 Plans	453.50	-70			
		-75			
		-80			

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Latitude Longitude Datum Job Number

BORINGS
IL. ROUTE 125 OVER
TRIBUTARY TO LOST CREEK
F.A.P. ROUTE 67 - SECTION (6X-1)B-2
CASS COUNTY
STA. 76+61.00
S.N. 009-7000

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

SHEET NO. 5
OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
67	(6X-1_B-2	CASS	71	34
		CONTRACT NO. 72875		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		