STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 1/22/79

ROUTE FAP 614 DESCRIPTION IL 78 over Big Lake LOGGED BY D. Bruns

SECTION 144 (B-1) LOCATION SE 14, SEC. 30, TWP. 19N, RNG. 9W, 3 PM

COUNTY Cass DRILLING METHOD HSA HAMMER TYPE 140# Manual

STRUCT. NO. 009-0006
Station 935+35

BORING NO. 1979-1 S. Abut
Station 935+34
Offset 65.0ft. LT
Ground Surface Elev. 464.5 ft.

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

Groundwater Elev.:
▽ First Encounter 441.8
▽ Upon Completion No Data
▼ After Hrs. No Data

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Yellow-Brown & Black SILTY CLAY (FILL) Moist (Hard)		15	4.5 P		20
Black SILTY CLAY (FILL) Moist (Very Stiff)	459.50	15	2.4 P		24
Yellow-Brown & Black SILTY CLAY (FILL) Moist (Stiff)	454.00	10	1.5 B		22
Grey		10	1.5 P		25
Grey & Black CLAY (FILL) Moist (Medium)	451.00	11	1.0 B		29
Dark Grey CLAY Moist (Stiff)	448.50	10	1.0 S		26
Dark Grey CLAY Moist (Medium)	446.50	10	1.0 S		26
Dark Grey & Brown CLAY (FILL) Moist (Stiff)	444.50	15	1.5 B		22
Free Water ▽	441.50	8	0.5 P		24
Grey CLAY Wet (Soft) w/some Organic Material		28			
Grey SILTY CLAY (Organic) Very Moist (Soft) w/Sand Thru.	439.50	4	0.5 P		48
Brown and Grey SAND (Medium) Wet (Medium)	437.50	15			
Brown and Grey Auger Sample		20			
Auger Sample		19			
	434.50	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) HSB, from 137 (Rev. 8-90)

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Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown SAND (Fine) Wet (Dense)		20			
Brown SAND (Fine) Wet (Very Dense) Auger Sample	431.50	45			
Auger Sample		70			
	413.00	89			
Boring Completed					

Note: BM#1 – Chisled square on NW abutment of bridge located at approximately Station 939+02, Elev. 464.94

Note: Original boring offset adjusted to reflect 2009 realignment of IL 78. No 1979 auger sample data is available.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
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BORINGS (Sheet 2 of 3)
F.A.P. 614 (IL 78) OVER
SANGAMON RIVER OVERFLOW
SECTION 144 (B-1)
CASS COUNTY
STA. 935+35.00
STRUCTURE NUMBER 009-2509

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
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JOB NO. 07S2026
DATE 03/27/09
SHEET NO. 3
4 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	Cass	351	225

CONTRACT NO. 72A76

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

LAYOUT	Rod	02-26-09
DRAWN	Rod	02-26-09
REVIEWED	TEH	02-26-09

Mar-31-2009 09:05:35 AM
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