



SOIL BORING LOG

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Date 4/24/07

ROUTE FAI 57/70 DESCRIPTION I-57/70 over US 45 LOGGED BY E. Sandschafer

SECTION (25-4.3)R LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-0013/0014
 Station 2294+12.22

BORING NO. 2
 Station 2293+18
 Offset 89.00ft Rt
 Ground Surface Elev. 586.36 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
0				0			
10	6.6	B	10	10	6.6	B	10
15				15			
21	6.0	B	9	21	6.0	B	9
25				25			
32				32			
33	3.3	7		33	3.3	7	
35				35			
45				45			
51	1.1	16		51	1.1	16	
53				53			
56	1.6	14		56	1.6	14	
57				57			
63				63			
65	1.7	14		65	1.7	14	
68				68			
72	0.8	16		72	0.8	16	
73				73			
78				78			
82	0.2	27		82	0.2	27	
83				83			
86				86			
88				88			

Surface Water Elev. N/A ft
 Stream Bed Elev. N/A ft

Groundwater Elev.:
 First Encounter 551.4 ft
 Upon Completion 573.4 ft
 After 24 Hrs. 573.9 ft

Hard, very moist, gray, CLAY LOAM TILL.

Hard, very moist, gray, SANDY CLAY TILL.

Very soft, very damp, gray, SILTY LOAM.

Latitude W 88 deg 32.044 min., Longitude N 39 deg 08.686 min., Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)



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 Station 2294+12.22

BORING NO. 2
 Station 2293+18
 Offset 89.00ft Rt
 Ground Surface Elev. 586.36 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
0				0			
49	6.6	B	10	49	6.6	B	10
50				50			
54				54			
54.86				54.86			
55	0.4	16		55	0.4	16	
56				56			
57				57			
58				58			
59				59			
60				60			
61				61			
62				62			
63				63			
64				64			
65				65			
66				66			
67				67			
68				68			
69				69			
70				70			
71				71			
72				72			
73				73			
74				74			
75				75			
76				76			
77				77			
78				78			
79				79			
80				80			
81				81			
82				82			
83				83			
84				84			
85				85			
86				86			
87				87			
88				88			
89				89			
90				90			
91				91			
92				92			
93				93			
94				94			
95				95			
96				96			
97				97			
98				98			
99				99			
100				100			

Surface Water Elev. N/A ft
 Stream Bed Elev. N/A ft

Groundwater Elev.:
 First Encounter 551.4 ft
 Upon Completion 573.4 ft
 After 24 Hrs. 573.9 ft

Very dense, wet, brown, SANDY LOAM w/ Gravel. (continued)

Soft, wet, gray, SANDY LOAM.

Very stiff, damp, gray, CLAY LOAM TILL.

Latitude W 88 deg 32.044 min., Longitude N 39 deg 08.686 min., Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)



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SECTION (25-4.3)R LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. (EX) 025-0013/0014
 Station 2294+12.22

BORING NO. 2
 Station 2293+18
 Offset 89.00ft Rt
 Ground Surface Elev. 586.36 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
0				0			
25	4.8	B	10	25	4.8	B	10
34				34			
35				35			
36				36			
37				37			
38				38			
39				39			
40				40			
41				41			
42				42			
43				43			
44				44			
45				45			
46				46			
47				47			
48				48			
49				49			
50				50			
51				51			
52				52			
53				53			
54				54			
55				55			
56				56			
57				57			
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59				59			
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65				65			
66				66			
67				67			
68				68			
69				69			
70				70			
71				71			
72				72			
73				73			
74				74			
75				75			
76				76			
77				77			
78				78			
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80				80			
81				81			
82				82			
83				83			
84				84			
85				85			
86				86			
87				87			
88				88			
89				89			
90				90			
91				91			
92				92			
93				93			
94				94			
95				95			
96				96			
97				97			
98				98			
99				99			
100				100			

Surface Water Elev. N/A ft
 Stream Bed Elev. N/A ft

Groundwater Elev.:
 First Encounter 551.4 ft
 Upon Completion 573.4 ft
 After 24 Hrs. 573.9 ft

Very stiff, damp, gray, CLAY LOAM TILL. (continued)

BM 45 Brass Disk on NE corner of existing NB/EB structure 025-0013, Station 2295+26, 7.2' Lt = 628.57' elevation.

BM "LIN 14" Chiseled square in concrete median on US 45 Station 48+55, centerline = 592.07' elevation.

Very dense, moist, gray, SANDSTONE.

Extent of exploration.

Benchmarks:
BM 44 Brass disk on SW corner of existing SB/WB structure 025-00140, Station 2291+65, 7.2' Lt = 628.87' elevation.

Latitude W 88 deg 32.044 min., Longitude N 39 deg 08.686 min., Map Datum WGS 84

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S:\Projects\403\0002_5770\Bridges\Bridg 025-8648 Y shaped culvert under US 45\DWG\Incl Design CAD Drawings\0258648-74295-009 Borings 01.dwg