Illinois Department of Transportation — SOIL BORING LOG (Left: B-10)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 05/21/09

ROUTE FAI 70 (I-70)   DESCRIPTION Sign Boring – South Bound Lane; 35 feet E.O.P.   LOGGED BY SCI

SECTION 60 – (7,8,9,10)RS, 60 – (8,9,10)BR   LOCATION Pin Oak Township; SW 1/4, SEC. 32, TWP, 4N, RNG, 7W

COUNTY Madison   DRILLING METHOD CME 45HSA   HAMMER TYPE Automatic

STRUCT. NO. _____   Station _____
BORING NO. B-10   Station 1294+96   Offset 60 ft Rt   Ground Surface Elev. 98.9 ft

Surface Water Elev. ____ ft   Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter 77.9 ft   Upon Completion ___ ft   After ___ Hrs. ___ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	(description left)	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	(description right)
				FILL: Dark brown, low plastic silty clay, trace sand (A-6)					CLAY: Grayish brown, high plastic, trace to some sand (A-7) (continued)
	2 4 5	3.6 B	22	95.9		1 2 3	1.2 B	25	Becomes gray. Temporary benchmark – Sta. 1295+00 pavement stamp. Assumed El. of 100.0 at the "+".
				SILTY CLAY: Gray and brown, low plastic (A-6)					Some sand, trace fine gravel
-5	1 2 2	1.0 B	28	Becomes gray 93.4	-25	1 2 3	1.3 B	24	73.4
				SILT: Gray, low plastic, trace sand (A-4)					SANDY CLAY: Gray and grayish brown, low plastic (A-6)
	WH 2 2	1.3 B	24			1 1 3	0.7 B	19	
-10	1 2 2	1.3 B	27	Becomes grayish brown and dark brown 88.4	-30	WH 2 4	1.3 S15	19	With grayish brown, high plastic clay, some sand 69.2. SAND: Grayish brown, fine to medium (A-3) 67.9
				SILTY CLAY: Grayish brown, brown and gray, low plastic, trace sand (A-6)					SANDY CLAY: Grayish brown, trace to some silt (A-6)
	WH 1 2	0.9 B	37						64.9
-15	1 1 1	<0.25 P	54	84.9. CLAY: Dark brown, high plastic, trace to some sand (A-7) 83.4	-35	6 13 14	4.5 P	14	SAND: Grayish brown, fine to medium, some silt (A-2)
	WH 2 3	1.6 B	28	SILTY CLAY: Dark grayish brown and dark brown, low plastic, trace to some sand (A-6) 80.9					Prior to sampling at 38.5 feet – center plug locked in by sand. Water used to flush sand from augers. 60.9
-20	WH 1 2	1.4 B	22	CLAY: Grayish brown, high plastic, trace to some sand (A-7)	-40	5 9 12	5.1 B	16	CLAY: Brown, high plastic, some sand, trace fine gravel (A-7) 58.9

Boring terminated at 40.0 ft.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted   BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG (Right: B-11)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 05/21/09

ROUTE FAI 70 (I-70)   DESCRIPTION Sign Boring – North Bound Lane; 30 feet E.O.P.   LOGGED BY SCI

SECTION 60 – (7,8,9,10)RS, 60 – (8,9,10)BR   LOCATION Pin Oak Township; NW 1/4, SEC. 32, TWP, 4N, RNG, 7W

COUNTY Madison   DRILLING METHOD CME 45HSA   HAMMER TYPE Automatic

STRUCT. NO. _____   Station _____
BORING NO. B-11   Station 1263+67   Offset 75 ft Lt   Ground Surface Elev. 100.3 ft

Surface Water Elev. ____ ft   Stream Bed Elev. ____ ft
Groundwater Elev.: First Encounter 94.3 ft   Upon Completion ___ ft   After ___ Hrs. ___ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	(description left)	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	(description right)
				FILL: Brown, low plastic silty clay (A-6) 98.8					CLAY: Grayish brown and brown, high plastic (A-7) (continued) Trace sand, fine gravel
	4 4 6	4.0 B	18	FILL: Dark brown and brown, low plastic silty clay (A-7) 97.3		WH 3 3	2.2 B	27	
				CLAY: Gray and brown, high plastic (A-7)					Becomes gray and grayish brown, trace to some sand
-5	2 2 3	2.3 B	25	95.8. SILTY CLAY: Brown and gray, low plastic (A-7) 94.6	-25	2 2 2	1.0 B	27	
	WH 2 2	0.8 B	27	CLAYEY SILT: Gray, low plastic (possible silty clay)		WH 1 2	0.9 B	28	Some sand 72.3
-10	WH WH 2	0.4 B	29	Becomes gray and brown 89.8	-30	7 9 14	2.7 S15	10	SANDY CLAY: Brown, low plastic, trace fine gravel (A-6)
				SILTY CLAY: Brown and brownish gray, low plastic (A-6)					
	WH 2 2	0.8 B	27						CLAYEY SHALE: Dark gray 68.3
-15	2 2 3	1.4 B	25	84.8. CLAY: Grayish brown and brown, high plastic (A-7)	-35	5 11 13	2.3 S6	17	During drilling – augers appear to be more difficult to advance than the materials above.
	WH 2 2	1.4 B	26						Temporary benchmark – On Ramp Sta. 26+00 pavement stamp. Assumed El. of 100.0 at the "+".
-20	2 2 2	1.0 B	27	Becomes gray	-40	5 10 15	1.8 S10	17	Becomes dark gray and brown 60.3

Boring terminated at 40.0 ft.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted   BBS, form 137 (Rev. 8-99)

• 60-(7,8,9,10)RS, 60-(8,9,10)BR

FILE NAME = $FILEL$
USER NAME = $USER$
DESIGNED – ___   REVISED – ___
DRAWN – ___   REVISED – ___
PLOT SCALE = $SCALE$ CHECKED – ___   REVISED – ___
PLOT DATE = $DATE$ DATE – _____   REVISED – ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
4 OF 4

SCALE: _____   SHEET NO. __ OF ___ SHEETS   STA. _____ TO STA. _____

F.A.I. RTE. 70
SECTION •
COUNTY MADISON
TOTAL SHEETS 150   SHEET NO. 150
CONTRACT NO. 76A73
FED. ROAD DIST. NO. _   ILLINOIS FED. AID PROJECT