Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 9/11/07

ROUTE FAP 316 DESCRIPTION P92-108-07 IL 26 Bridge over a ditch, .4 m. S. of Amboy Road LOGGED BY W. Garza

SECTION 102 BR-5 & 6 LOCATION Marion Twp. - 21 SE, SEC. , TWP. 20N, RNG. 9E

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.
Station 420+57

BORING NO. B-1a
Station 420+02
Offset 13.00ft Rt CL
Ground Surface Elev. 99.20 ft

Surface Water Elev. 85.00 ft
Stream Bed Elev. 84.00 ft

Groundwater Elev.:
First Encounter 86.7 ft ▼
Upon Completion Wash ft
After 2 Hrs. 69.2 ft ▽

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Shoulder Rock					
SOFT brown SANDY LOAM			0.3	14.0	
			P		
	96.70				
STIFF dark brown SILTY CLAY LOAM			1		
			2	1.1	21.0
	95.20		2	P	
		-5			
MEDIUM dark brown SILTY CLAY LOAM with 9% ORGANICS			0		
			2	0.6	44.0
	92.70		4	B	
MEDIUM tan/gray LOAM			1		
			3	0.7	24.0
	90.20		2	B	
		-10			
MEDIUM tan SILT			1		
			2	0.8	22.0
			4	P	
	87.20				
MEDIUM tan fine SAND	▼		4		
			5		
	85.20		7		
		-15			
MEDIUM tan fine SAND			1		
			6		
			9		
	82.20				
SOFT gray SILT			2		
			3	0.3	22.0
	80.20		4	P	
		-20			
MEDIUM gray SILTY CLAY LOAM TILL			0		
			1	0.6	15.0
	77.70		3	B	
MEDIUM gray SILTY CLAY LOAM TILL			0		
			2	0.8	15.0
	75.20		4	B	
		-25			
VERY STIFF gray SILTY CLAY LOAM TILL			2		
			4	2.7	11.0
	72.70		7	B	
VERY STIFF gray LOAM TILL			6		
			7	3.7	10.0
	70.20		11	S	
		▽30			
VERY STIFF gray LOAM TILL			9		
			9	3.9	10.0
	67.70		15	B	
HARD gray LOAM TILL			13		
			15	4.5	10.0
	65.20		17	P	
		-35			
HARD gray LOAM TILL			29		
			19		
	62.70		21		
HARD gray LOAM TILL			5		
			13	5.5	9.0
	60.20		22	B	
		-40			

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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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
HARD gray LOAM TILL			32		
			25	6.0	9.0
	57.70		23	S	
HARD gray LOAM TILL with clean medium SAND lens			7		
			11	5.0	12.0
			14	B	
	54.70				
		-45			
MEDIUM gray clean medium coarse SAND			1		
			4		
	52.70		11		
Wash DENSE gray SAND & GRAVEL			7		
			14		
			17		
	49.70				
		-50			
Wash MEDIUM gray clean medium coarse SAND with bottom 3" TILL			7		
			8	3.0	11.0
	47.70		7	P	
Wash HARD gray CLAY LOAM TILL			6		
			13	4.3	12.0
	45.20		19	B	
		-55			
Wash HARD gray CLAY LOAM TILL			5		
			11	4.1	12.0
			14	B	
	42.20				
Wash VERY DENSE gray fine SAND with medium GRAVEL			26		
			38		
	40.20		36		
		-60			
DENSE gray clean medium coarse SAND			13		
			22		
			20		
	37.70				
End of Boring					
		-65			
		-70			
		-75			
		-80			

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BBS, from 137 (Rev. 8-99)

Boring Elev. Correction to Project Datum:
Boring Elev. 100.00 = Project Elev. 700.10