STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
District Nine Materials

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Date 102905

ROUTE IL 152 DESCRIPTION IL 152 over Panther Creek LOGGED BY Bryan Keller

SECTION 104BC-DR LOCATION 1.6 mi. E. IL 13, SEC. 16, TWP. 6S, RNG. 2W, 3 PM

COUNTY Perry DRILLING METHOD HAMMER TYPE

STRUCT. NO. 073-0024
Station 875+13.10

BORING NO. 1-S
Station 874+77
Offset 31.00ft Lt.
Ground Surface Elev. 389.1 ft

Surface Water Elev. 381.0 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 357.1 ft
Upon Completion ft
After 120 Hrs. 382.6 ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Very stiff, moist, brown, Silty Clay loam A-6			9 / 12 / 9	3.9 S	20
	384.6				
Very stiff, moist, brown mottled grey, Silty Clay Loam A-6		-5	3 / 6 / 9	2.1 S	18
	382.1				
Stiff, very moist, brown mottled grey, Silty Clay A7-6			4 / 5 / 5	1.2 B	26
	379.6				
Very stiff, moist, brown mottled grey, Clay to Silty Clay A7-6		-10	2 / 5 / 6	2.1 S	23
	377.1				
Very stiff, moist, grey mottled brown, Clay A7-6			2 / 5 / 5	2.1 S	25
		-15	2 / 5 / 6	2.4 S	25
	372.1				
Stiff, moist, brown mottled grey, Clay A7-6			3 / 4 / 4	1.4 S	25
		-20	2 / 3 / 3	1.6 S	26
Stiff, moist, brown mottled grey, Clay A7-6 (continued)			2 / 4 / 4	1.9 B	26
	362.1	-25	2 / 4 / 3	1.5 S	50
Medium, very moist, grey, Clay A7-6			1 / 2 / 2	0.6 B	33
	357.1	-30	1 / 2 / 2	0.8 B	33
Stiff, very moist to wet, grey, Silty Clay to Clay A7-6 with Sand Layers			WH / 1 / 2	1.2 B	24
	354.6				
Medium, wet, grey, Silty Clay Loam A-6 with Sand Layers		-35	1 / 4 / 4	0.9 B	26
	352.1				
Loose to medium, wet, grey, fine Silty Sand 90% Sand 6% Silt 4% Clay			1 / 6 / 4		22
	349.6	-40	3		

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)

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Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Medium, wet, grey, medium to coarse Sand 95% Sand 3% Silt 2% Clay (continued)			7 / 11		23
	344.6				
Medium, wet, grey, Coarse Sand 92% Sand 7% Silt 1% Clay		-45	5 / 9 / 5		18
	339.6				
Soft to medium, very moist, grey, Silty Clay Loam A-6		-50	5 / 5 / 5	0.5 P	21
	334.6				
Medium, very moist, grey, Clay A7-6		-55	1 / 3 / 3	0.9 B	24
	329.6	-60	WH		
Surface Water Elev. 381.0 ft / Stream Bed Elev. ft					
Groundwater Elev.: First Encounter 357.1 ft / Upon Completion ft / After 120 Hrs. 382.6 ft					
Very stiff, moist, grey, Silty Clay A7-6 with Sand Layers (continued)			1 / 3	2.5 B	22
	324.6				
Stiff, very moist, grey, Silty Clay A7-6		-65	2 / 5 / 4	1.2 B	21
	319.6				
Very stiff, moist, grey, Silty Clay Loam A-6		-70	2 / 10 / 10	3.2 S	20
	317.1				
Hard, dry, grey, Sandstone		-75	100/1"		
		-80	100/2"		

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Bottom of hole = 80.0 ft.

Free water observed at 32.0 ft.

Elevation referenced to Bk. E. Abut. Sta. 874+32 at Cr. Elev. 399.7 ft.

To convert "N" values to "N60" values, multiply by 1.25

-65 -90 -95 -100

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SOIL BORING LOGS
STRUCTURE NO. 073-0037

SHEET NO. 23	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	865	16B-2	PERRY	47	45
			CONTRACT NO. 78064		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		