Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG

Date 5/10/2004

ROUTE IL 14 DESCRIPTION IL 14 over Reese Creek LOGGED BY Bryan Keller

SECTION (1,3)RS-1; 2B-2 LOCATION 3.7 MI E of US 51

COUNTY Perry DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 073-0013
Station 191+00

BORING NO. 4-S
Station 191+94
Offset 13.00ft Rt
Ground Surface Elev. 398.5 ft

Surface Water Elev. 382.2 ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 369.0 ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	Description
				Stiff, very moist, brown mottled grey, Clay A7-6
	1			
	2	1.2	21	
394.0	3	S		
-5	1			Stiff, very moist, grey mottled brown, Silty Clay Loam A-6
	2	1.2	26	
391.5	2	P		
	WH			Stiff, very moist, grey, Clay to Silty Clay A7-6
	1	1.1	30	
389.0	2	S		
-10	WH			Medium, very moist, grey, clay to Silty Clay A7-6
	2	0.9	28	
	2	B		
	1			
	1	0.8	26	
	1	S		
-15	1			
	1	0.8	31	
	1	B		
381.5	WH			Stiff, very moist, grey, Clay to Silty Clay A7-6
	1	1.9	26	
	2	S		
379.0	WH			
-20				
	1			Medium, very moist, grey, Clay to Silty Clay A7-6 (continued)
	1	0.9	28	
376.5	1	B		
	WH			Stiff, very moist, brown mottled grey, Silty Clay A-6
	1	1.1	25	
	2	B		
-25	WH			
	2	1.1	26	
371.5	2	B		
	WH			Medium, very moist, brown mottled grey, Silty Clay A-6
	WH	0.8	27	
369.0	1	B		
-30	WH			Soft, very moist, grey, Clay to Silty Clay A7-6
	WH	0.4	31	
366.5	WH	B		
	WH			Medium, very moist, grey, Clay to Silty Clay A7-6 with Coal Chips
	WH	0.9	31	
364.0	WH	B		
-35	WH			Stiff, wet, grey, Clay A7-6
	WH	1.1	43	
361.5	2	B		
	WH			Soft to medium, very moist, grey, Clay to Silty Clay A7-6
	WH	0.5	29	
359.0	WH	B		
-40	WH			

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, form 137 (Rev. 8-99)

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DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	Description
	WH	0.8	28	Medium, very moist, grey, Silty Clay A7-6 (continued)
	WH	B		
-45	1			
	1	0.8	22	
	2	B		
349.0				
-50	1			Stiff, very moist, grey, Silty Clay Loam A-6
	2	1.3	24	
	2	B		
344.0				
-55	1			Stiff, very moist, brown, Clay to Silty Clay A7-6
	4	1.7	26	
	4	B		
339.0				
-60	3			
				Hard, moist, grey, Clay to Silty Clay A7-6 (continued)
	8	5.2	21	
	2	S		
334.0				
-65	WH			Very loose, wet, grey, very fine Silty Sand with Clay Seams and some Gravel Washed 5' blow in. 73% Sand 9% Silt 5% Clay 13% Gravel
	WH		26	
	WH			
329.0				
-70	10			Dense, wet, grey, very fine Silty Sand with Clay Seams and some Gravel 73% Sand 9% Silt 5% Clay 13% Gravel
	21			
	25			
-75	6			
	19			
	22			
319.0				
-80	12			

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DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	Description
	11		17	Medium, wet, grey, very fine Silty Sand with some Gravel 75% Sand; 7% Silt; 3% Clay; 15% Gravel (continued)
	12			
316.0				
				Hard, dry, grey, Clay Shale
313.5	1009*			
-85				Cored from 85.0 ft. to 90.0 ft. Hard, dry, grey Clay Shale 87% Recovery 88% RQD
308.5				
-90				Cored from 90.0 ft. to 92.5 ft. 80% Recovery 21% RQD
306.0				
				Bottom of hole = 92.5 ft. Free water observed at 29.5 ft. Elevation referenced to Center of Existing Structure Cr Elevation = 398.5 ft. Sta. 191+24 To convert "N" values to "N60" values, multiply by 1.25.
-95				
-100				

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DESIGNED -	EXAMINED _____ ENGINEER OF BRIDGE DESIGN	DATE - 5/10/2011	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED -			
DRAWN -	PASSED _____ ENGINEER OF BRIDGES AND STRUCTURES		
CHECKED -			

SOIL BORING LOGS
STRUCTURE NO. 073-0036
SHEET NO. 24 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
869	1B-2	PERRY	299	128
		CONTRACT NO. 98797		
		ILLINOIS FED. AID PROJECT		