Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 9/30/08

ROUTE FAP 823 (IL 15) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer

SECTION (22,B2)B-1 LOCATION SW 1/4, SEC. 4, TWP. 2 S., RNG. 9 E., 3 PM

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

STRUCT. NO. 096-0012
Station 428+79

BORING NO. 3 W Abut
Station 429+73
Offset 8.50ft Lt
Ground Surface Elev. 392.66 ft

Surface Water Elev. Dry ft
Stream Bed Elev. 377.02 ft

Groundwater Elev.:
First Encounter 353.2 ft
Upon Completion 374.2 ft
After 72 Hrs. 373.2 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				6 3/8" asphalt on 11 1/2" concrete pavement.
391.16				
	2			Medium to stiff, damp, gray, CLAY.
	1	1.0	20	
	2	PP		
-5	2			
	3	1.1	22	
	5	B		
385.36				
	1			Medium, damp, gray, SILTY CLAY.
	1	0.8	21	
	2	B		
383.16				
-10	1			Stiff, damp, dark gray, CLAY.
	3	1.6	26	
	5	B		
380.89				
	2			Medium to stiff, damp, gray, SILTY CLAY.
	3	1.0	22	
	4	B		
378.16				
-15	1			Soft, damp, gray, SILTY LOAM.
	2	0.4	29	
	2	B		
375.66				
	2			Stiff, damp, brown marbled gray, CLAY LOAM.
	3	1.8	20	
	6	B		
373.16				
-20	2			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	3	0.4	26	Soft to very soft, damp, brown/gray, SILTY LOAM.
	4	B		
	0			*Muck at 22.0' to 23.0' depth (continued)*
	2	0.6	25	
	2	B		
-25	0			
	1	0.1	26	
	0	B		
	0			
	0	0.1	30	
	1	B		
-30	0			
362.66				Soft, damp, gray, SILTY CLAY.
	0	0.3	26	
	0	B		
358.16				
-35	0			Soft to medium, damp, gray, SILTY LOAM.
	0	0.5	27	
	1	B		
353.16				
-40	2			

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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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	5		26	Medium, wet, gray, fine grained, SAND. *75% passing #200 sieve.*
	7			
				4% passing #200 sieve.
				6% passing #200 sieve. (continued)
-45	5			
	12		21	
	16			
-50	8			
	14			
	18			
-55				
-60	23			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	28		16	*No recovery this trip.*
	50			Estimated, medium, wet, gray, fine grained, SAND.
328.16				
-65	19			Gray, soft, SANDSTONE.
327.66	50/4"		11	Very dense, moist, hard, SANDSTONE.
	50/0"			
323.16				
-70	49			Very dense, moist, gray, SILTY CLAY SHALE.
322.26	50/3"			Extent of exploration.
	50/1"			
-75				Benchmark: WE 17 Chiseled square on NE headwall of existing structure, Sta 426+00, 19' Rt = 393.16' elevation. Provided by Program Development.
-80				

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BBS, from 137 (Rev. 8-99)

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DESIGNED -	ADG
CHECKED -	DF
DRAWN -	ADG
CHECKED -	DF

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 096-0073

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
823	(22,B2A)B-1 & (22,B2B)B-1	Wayne	85	79
		CONTRACT NO 74216		
	ILLINOIS FEDERAL AID PROJECT			