STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation — Bureau of Highways, BDE - Desk 5

SOIL BORING LOG

Page 1 of 2

Date 10/04/74

ROUTE FAS 535-Shady Rest Rd. DESCRIPTION OVER SANGAMON RIVER LOGGED BY BAKER

SECTION (J-BRIDGE) LOCATION NW, SEC. 21, TWP. 19N, RNG. 6E, 3rd PM

COUNTY Piatt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-0035
Station 40+08.87

BORING NO. 5
Station 41+69.17
Offset 20.0 ft rt.
Ground Surface Elev. 644.90 ft

Surface Water Elev. ____ ft
Stream Bed Elev. ____ ft

Groundwater Elev.:
First Encounter ____ ft
Upon Completion Wash Bore ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (12")	UCS Qu (tsf)	MOIST (%)
MEDIUM BLACK SILTY CLAY ALLUVIUM			
632.9	5		
SOFT - LOOSE BLACK CLAY LOAM TO SANDY CLAY LOAM ALLUVIUM WITH FREE WATER	6		
630.9			
LOOSE DARK GRAY SAND WITH SOME FINE GRAVEL	7		
627.9	10		
MEDIUM GRAVEL	11		
622.9	18		
MEDIUM GRAY SAND	10		
620.9	50/0"		
MEDIUM GRAY SAND (continued)	22/4.9		
MEDIUM GRAY SAND WITH SOME GRAVEL	15		
	35		
	13		
616.4 MEDIUM COARSE SAND AND FINE GRAVEL	35		
	16		
616.9 MEDIUM GRAY SAND	32		
	12		
614.4 MEDIUM COARSE SAND WITH FINE GRAVEL	30		
	21		
	15		
	35		
	17		
	18		
	50		

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, E-Estimate)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-98)

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DEPTH (ft)	BLOWS (12")	UCS Qu (tsf)	MOIST (%)
MEDIUM COARSE SAND WITH FINE GRAVEL (continued)			
603.9	37		
DENSE FINE GRAY SAND			
601.4	15		
MEDIUM GRAY SAND AND GRAVEL	45		
	28		
End of Boring	50/4"		

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The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-98)

SOIL BORING LOG
midwest engineering services, inc.

Project Name: Proposed Bridge Replacement
Location: Shady Rest Road, Section 08-00255-00-BR, Piatt County, Illinois

Boring: **Sta. 38 + 80, 8' E. of C.L.**
Project No.: B-1 (Page 1 of 2)
Date of Boring: 1-83082
Field Representative: January 12, 2010
JR Muse

VISUAL SOIL CLASSIFICATION — GROUND SURFACE ELEVATION: 655.20	Feet	Sample No.	N	Q_p (tsf)	Q_u (tsf)	MC (%)	Dd (pcf)	Remarks
18" Asphalt 3" Crushed Stone		1-AU	-	-	-	17	-	
Black sandy CLAY (SC) Possible Fill	5	2-SS	5	-	-	17	-	
		3-SS	3	-	-	18	-	
	10	4-SS	8	0.3	-	20	-	
Dark gray silty CLAY (CL)		5-SS	4	0.5	-	26	-	
Brown and gray silty CLAY (CL)		6-SS	7	1.5	2.2	21	93	
Gray fine SAND (SP)	15	7-SS	5	-	-	26	-	▽ Drilling 15.5 ft. Completion 15 ft.
Gray coarse SAND (SP)	20	8-SS	2	-	-	19	-	
		9-SS	9	-	-	8	-	
	25							
Gray fine to medium SAND (SP)		10-SS	8	-	-	18	-	
	30							
		11-SS	8	-	-	24	-	
Gray sandy SILT (SM)	35	12-SS	23	1.0	1.4	23	102	
Gray fine to medium SAND (SP)	40	13-SS	26	-	-	14	-	

Lines of Demarcation represent approximate boundary between soil types. Variation may occur between sampling intervals and between bo locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes, such as fill to natural soil zone transitions.

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VISUAL SOIL CLASSIFICATION — GROUND SURFACE ELEVATION: 655.20	Feet	Sample No.	N	Q_p (tsf)	Q_u (tsf)	MC (%)	Dd (pcf)	Remarks
Gray medium to coarse SAND (SP)	45	14-SS	62	-	-	7	-	
Gray clayey SILT with sand and small gravel (ML) Till	50	15-SS	58	1.8	3.0	15	118	
Gray silty CLAY with sand and small gravel (CL) Till	55	16-SS	24	4.5+	3.0	12	131	
Gray fine to medium SAND (SP)	60	17-SS	3	-	-	15	-	
	65	18-SS	32	-	-	21	-	
Gray medium to coarse SAND (SP)	70	19-SS	19	-	-	14	-	
	75	20-SS	24	-	-	7	-	
END OF BORING @ 76.5 feet	80							

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ESCA CONSULTANTS, INC.

DESIGNED BY:	MTD	11/09
DRAWN BY:	DWH	11/09
CHECKED BY:	MTD	11/09
APPROVED BY:	RDP	05/10

(Sheet 3 of 3)
SOIL BORING LOGS
STRUCTURE NO. 074-0085

SHEET NO. 25	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
25 SHEETS	535	08-00255-00-BR	PIATT	62	49
			CONTRACT NO. 91436		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		