Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

SOIL BORING LOG

Date 10/19/09

ROUTE I-270 DESCRIPTION Bridge over Chain of Rocks Canal LOGGED BY MDM
SECTION Bridge over Chain of Rocks Canal LOCATION , SEC.30, TWP. 4N, RNG. 9W, PM
COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 060-0345
Station
BORING NO. B-10
Station 1194+57.25
Offset 23.54ft LT
Ground Surface Elev. 443.9 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 417.9 ft ▼
Upon Completion N/A ft
After Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark brown SILTY CLAY, with Sand, Trace Organics			1		
			2	0.8	17
			3	P	
	440.41				
Brown Fine SAND			1		
			6		
		-5	5		
	437.91				
Brown Fine SAND, trace Silt and Gravel Sand=94%, Silt/CL=4%, Gravel=2%			5		
			7		
	436.41		8		
Gray CLAY with Sand			2		
			7	2.3	24
			10	B	
		-10			
	432.91				
Gray CLAY trace Sand			3		
			4	2.3	19
			5	S/11	
	430.41				
Brown Fine SAND, trace Clay			1		
			1		
		-15	2		
	427.91				
Brown Fine SAND			2		
			6		
			7		
			7		
		-20	11		
			15		
Brown Fine SAND *(continued)*	422.91				
Brown Fine to Medium SAND			7		
			10		
			15		
	420.41				
Brown Fine to Medium SAND, trace Clay			5		
			7		
		-25	10		
	417.91 ▼				
Brown Fine SAND			4		
			6		
			7		
	415.41				
Brown Fine SAND, trace Silt and Gravel Sand=94%, Silt/CL=5.7%, Gravel=0.2%			2		
			3		
		-30	6		
	410.41				
Gray and brown CLAYEY SILT			2		
			1		32
		-35	2		
	405.41				
Brown Fine SAND, trace Silt			5		
			6		
		-40	7		

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 (%)
Brown Fine SAND, trace Silt *(continued)*					
	400.41				
Brown Fine SAND, with Silt			5		
			5		
		-45	7		
	395.41				
Brown Fine to Medium SAND			7		
			8		
		-50	10		
	385.41				
Brown Fine SAND with Silt Sand=92.5%, Silt/CL=7.5%, Gravel=0%			11		
			10		
		-60	9		
Brown Fine SAND with Silt Sand=92.5%, Silt/CL=7.5%, Gravel=0% *(continued)*					
		-65			
	374.41				
Brown-gray Fine SAND		-70	8		
			16		
			18		
		-75			
		-80	8		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown-gray Fine SAND *(continued)*			11		
			18		
		-85			
	355.41				
Brown-gray Fine to Coarse SAND			10		
			16		
		-90	25		
		-95			
		-100	9		
			16		
			25		
Brown-gray Fine to Coarse SAND *(continued)*					
		-105			
	335.41				
Gray Fine SAND, trace Silt			15		
			18		
		-110	19		
		-115			
	325.41				
Gray-brown Medium to Coarse SAND, with Gravel			13		
			9		
		-120	7		

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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jmigus
3/15/2011
5:06:51 PM

Kaskaskia Engineering Group, LLC	USER NAME = jmigus	DESIGNED - BWC	REVISED -
	FILE NAME = 0600345-76A91-122-SBL.DGN	CHECKED - LGP	REVISED -
	PLOT SCALE = NONE	DRAWN - JM	REVISED -
	PLOT DATE = 3/18/2011	CHECKED - BSK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 060-0345

BRIDGE SHEET NO. 122 OF 133 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	501

CONTRACT NO. 76A91

ILLINOIS FED. AID PROJECT