Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

SOIL BORING LOG

Page 1 of 4

Date 11/2/09

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-12
Station 1192+06.25
Offset 23.53ft RT
Ground Surface Elev. 460.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 433.6 ft ▼
Upon Completion N/A ft
After Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown CLAYEY SILT, with Sand			3		
			3	0.8	19
			5	P	
Brown Fat CLAY	456.58		1		
			4		30
Brown Fine SAND	455.58	-5	3		
Brown Fine SAND, with Silt	454.08		2		
			2	0.3	27
			4	P	
Brown SILT, with Sand Dry Unit Weight=104.7pcf	452.08				11
		-10			
Brown SANDY SILT	449.08		8		
			11		17
			13		
Brown Lean CLAY, trace Sand	446.58		8		
			7		19
		-15	11		
Brown Fine SAND, with Silt	444.08		8		
			10		11
			8		
Gray-brown Fat CLAY, with Sand	441.58		6		
			10	3.5	27
		-20	8	P	
Gray-brown Fat CLAY, with Sand *(continued)*	439.08				
Gray-brown SILTY SAND Dry Unit Weight=96.5pcf					17
	436.58				
Gray-brown CLAYEY SAND, with Silt			9		
			12		20
		-25	13		
Brown SILTY SAND	434.08		5		
		▼	11		21
			15		
Brown Fine SAND, with Silt	431.58		8		
			13		13
		-30	12		
Gray SILTY SAND Sand=66.4%, Silt/CL=33.6% Gravel=0%	428.08		8		
			13		22
		-35	16		
Brown SILTY SAND	421.58		8		
			12		19
		-40	17		

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)

Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

SOIL BORING LOG

Page 2 of 4

Date 11/2/09

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-12
Station 1192+06.25
Offset 23.53ft RT
Ground Surface Elev. 460.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 433.6 ft ▼
Upon Completion N/A ft
After Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown SILTY SAND *(continued)*					
Gray Fat CLAY	416.58		5		
			5	3.0	32
		-45	7		
Gray SILT LL=26, PL=27	411.58		6		
			7		27
		-50	7		
		-55			
Gray Fine SAND, trace Silt Sand=93.5%, Silt/CL=6.5%, Gravel=0%	401.58		9		
			10		
		-60	19		
Gray Fine SAND, trace Silt Sand=93.5%, Silt/CL=6.5%, Gravel=0% *(continued)*					
		-65			
Gray SANDY SILT	391.58		8		
			13		25
		-70	18		
		-75			
Gray Fine to Medium SAND, trace Gravel and Silt	381.58		15		
			26		
		-80	25		

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)

Illinois Department of Transportation
Division of Highways
Kaskaskia engineering Group

SOIL BORING LOG

Page 3 of 4

Date 11/2/09

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-12
Station 1192+06.25
Offset 23.53ft RT
Ground Surface Elev. 460.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 433.6 ft ▼
Upon Completion N/A ft
After Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Fine to Medium SAND, trace Gravel and Silt *(continued)*					
		-85			
Gray Fine to Medium SAND, with Silt, trace Gravel	371.58		18		
			15		20
		-90	17		
		-95			
Brown-gray Fine SAND, trace Clay	361.58		13		
			20		
		-100	13		
Brown-gray Fine SAND, trace Clay *(continued)*					
		-105			
Gray Fine to Coarse SAND, with Gravel	351.58		16		
			24		
		-110	21		
		-115			
Gray Fine to Medium SAND, trace Silt	341.58		10		
			12		
		-120	16		

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)

c:\pwworking\oma\d0549\04\0600345-76A91-126-SBL.dgn
jmigus

3/15/2011
5:07:13 PM

Kaskaskia Engineering Group, LLC			
USER NAME = jmigus	DESIGNED - BWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
FILE NAME = 0600345-76A91-126-SBL.DGN	CHECKED - LGP	REVISED -	
PLOT SCALE = NONE	DRAWN - JM	REVISED -	
PLOT DATE = 3/18/2011	CHECKED - BSK	REVISED -	

SOIL BORING LOGS
STRUCTURE NO. 060-0345
BRIDGE SHEET NO. 126 OF 133 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	505
		CONTRACT NO. 76A91		
		ILLINOIS FED. AID PROJECT		