Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group

SOIL BORING LOG

Page 1 of 2

Date 6/30/10

ROUTE I-270 DESCRIPTION I-270 CORC Retaining Wall LOGGED BY IK

SECTION 60-1B-1 LOCATION SEC.29, TWP. 4N, RNG. 9W, PM

COUNTY Madison DRILLING METHOD HSA/Mud Rotary HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. RT-9
Station 4+00
Offset 0.00ft
Ground Surface Elev. 419.8 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 409.8 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL 418.76			
Brown SANDY SILT	2		
	4		18
	5		
	1		
	3		28
-5	2		
414.26 Gray-brown Fat CLAY Wet Density=114.3pcf, Dry Density=85.0pcf Liquid Limit=68, Plastic Limit=26, Plastic Index=42			
	ST	0.8 S	35
411.76 Brown Fine to Medium SAND, with Silt	1		
	1		28
▼-10	2		
	4		
	4		24
	7		
406.76 Gray-brown Lean CLAY, with Sand	3		
	5		25
-15	5		
403.26 Gray-brown SANDY SILT	3		
	4		29
	9		
401.76 Brown Fine to Medium SAND, Trace Silt	3		
	4		
-20	7		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Fine to Medium SAND, Trace Silt *(continued)*			
	5		
	7		
	11		
	6		
	8		
-25	10		
	11		
	16		
	14		
391.26 Brown Fine to Coarse SAND, Trace Silt and Gravel	7		
	12		
-30	19		
388.76 Brown Fine to Medium SAND, Trace Silt	4		
	5		
	10		
386.26 Gray Fine SAND, Trace Silt	7		
	15		
-35	19		
	6		
Sand = 99.0%, Silt/CL = 1.0%, Gravel = 0.0%	9		
	10		
381.26 Gray Fine to Coarse SAND, Trace Silt	7		
	10		
-40	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)

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Station 4+00
Offset 0.00ft
Ground Surface Elev. 419.8 ft

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Stream Bed Elev. ft

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First Encounter 409.8 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Fine to Coarse SAND, Trace Silt *(continued)* 378.79			
Gray Fine to Medium SAND, Trace Silt	7		
	12		
	11		
	8		
	15		
-45	23		
	15		
	17		
	17		
	10		
	11		
-50	17		
366.29 Gray Fine to Coarse SAND, Trace Silt and Gravel	12		
	17		
-55	23		
361.28 Gray Fine to Medium SAND, Trace Silt	13		
	14		
-60	25		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Fine to Medium SAND, Trace Silt *(continued)*			
358.28 Gray Fine to Coarse SAND, with Gravel	7		
	7		
-65	9		
	8		
	10		
-70	11		
348.28 Gray Fine to Coarse SAND, Trace Gravel	9		
	10		
344.76 -75	14		
-80			

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COUNTY Madison DRILLING METHOD HSA/Mud Rotary HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. RT-10
Station 4+50
Offset 0.00ft
Ground Surface Elev. 419.3 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 410.8 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL 418.30			
Brown SANDY SILT	2		
	3		25
	3		
415.80 Gray-brown Lean CLAY, Trace Sand	WH		
	1		33
-5	1		
413.30 Brown Fine SAND, with Silt			
	ST	0.3 S	31
412.30 Brown SANDY SILT			
411.80 Gray-brown Lean CLAY Wet Density=116.3pcf, Dry Density=89.1pcf			
411.30 Brown SILTY SAND	1		
	2		30
-10	2		
408.80 Brown Fine to Medium SAND, with Silt	9		
	10		21
	16		
	4		
	4		
-15	4		
403.30 Gray Fine to Medium SAND, Trace Silt	3		
	3		
Sand=98.6%, Silt/CL=1.4%, Gravel=0.0% Stress = 0.3tsf	6		
400.80 Brown Fine to Medium SAND, Trace Silt and Gravel	5		
	8		
-20	9		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Fine to Medium SAND, Trace Silt and Gravel *(continued)* 398.30 Brown Fine to Medium SAND, with Silt	9		
	10		
	11		
	6		
	4		
-25	7		
393.30 Brown Fine to Coarse SAND, with Silt	6		
	12		
	14		
390.80 Brown Fine to Medium SAND, with Silt	6		
	10		
-30	13		
388.30 Gray Fine to Coarse SAND, Trace Silt	6		
	10		
	15		
	5		
	7		
-35	9		
383.30 Gray Fine to Medium SAND, Trace Silt	6		
	8		
	14		
	6		
	10		
-40	10		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Upon Completion N/A ft
After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Fine to Medium SAND, Trace Silt *(continued)* 378.30			
Gray Fine to Coarse SAND, Trace Silt	7		
	7		
	13		
	8		
	13		
-45	16		
373.30 Gray Fine to Medium SAND, Trace Silt	9		
	14		
	19		
370.80 Gray Fine to Coarse SAND, Trace Silt	11		
	18		
-50	13		
	10		
	20		
-55	21		
350.80 Gray Fine to Medium SAND, Trace Silt	5		
	15		
-60	24		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Fine to Medium SAND, Trace Silt *(continued)*			
	8		
355.80 Gray Fine to Coarse SAND, with Gravel	11		
	9		
-65	9		
	8		
	9		
-70	9		
	11		
	11		
344.30 -75	9		
-80			

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BBS, from 137 (Rev. 8-99)

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME = 060W008-76A91-012-Soil_Borings.dgn	USER NAME = jehrhart	DESIGNED - JCE	REVISED -
		CHECKED - PMH	REVISED -
	PLOT SCALE = 1:0.0833333	DRAWN - AMV	REVISED -
	PLOT DATE = 3/18/11	CHECKED - JCE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 060-W008
SHEET NO. 12 OF 19 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	524
		CONTRACT NO. 76A91		
		ILLINOIS FED. AID PROJECT		