Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 3/24/06

ROUTE FAP 542 (IL 61) DESCRIPTION IL 61 over Lamoine R. 1mi. S. of Colmar LOGGED BY JAR

SECTION 105BR-1 LOCATION SW 1/4 of the SE 1/4, SEC. 18, TWP. 4N, RNG. 4W, 4TH PM

COUNTY McDonough DRILLING METHOD HSA HAMMER TYPE AUTOMATIC

STRUCT. NO. Exist. 055-0010
Station 758+83.50

BORING NO. 2 (Pier 4)
Station 759+70 (EX)
Offset 29.20 ft Rt
Ground Surface Elev. 512.41 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 497.4 ft ▼
Upon Completion N/A ft
After 24 Hrs. 504.4 ft ▽

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown, Grey SILTY CLAY LOAM			1		
			2	1.3	21
			2	P	
	508.41				
Brown, Grey CLAY			1		
		-5	1	1.0	22
			2	B	
			2		
			3	1.3	22
		▽	3	B	
			2		
		-10	3	1.2	25
			3	B	
	500.91				
Grey SILTY CLAY			1		
			2	0.9	27
			2	B	
			2		
		▼ -15	2	0.9	26
			3	B	
			1		
1" sand seam			2	0.7	22
			3	B	
			1		
		-20	3	0.7	24

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Grey SILTY CLAY (continued)			4	B	
			1		
			2	0.8	25
			1	B	
	488.41				
Brown Fine-Coarse SAND			1		
		-25	2		21
			2		
			3		
			4		24
			7		
			1		
		-30	5		18
			6		
	480.91				
Brown, Grey Coarse SAND and GRAVEL			2		
			4		15
			6		
	478.41				
Grey SANDY CLAY LOAM with gravels			4		
		-35	3	1.2	17
			4	B	
	475.91				
Grey Coarse SAND and GRAVEL			4		
			8		12
			8		
			6		
		-40	7		9

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, form 137 (Rev. 8-99)

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Grey Coarse SAND and GRAVEL (continued)			11		
			7		
			16		11
			14		
			12		
		-45	9		12
			12		
	463.41				
Grey SILTY CLAY			4		
		-50	5	3.1	27
			7	B	
			5		
		-55	5	3.1	27
			7	B	
	453.41				
Grey Coarse SAND and GRAVEL			14		
		-60	24		12

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Grey Coarse SAND and GRAVEL (continued)			34		
			12		
		-65	14		16
			20		
		-70			
			5		
Cobbles/Boulders @ 73.25'	439.16		100 Ø4"		9
End of Boring					
		-75			
		-80			

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, form 137 (Rev. 8-99)

USER NAME = dhebarling	DESIGNED - BRD/FLL	REVISED -	
FILE NAME = 0550083-68482.dgn	CHECKED - SDS/JHP	REVISED -	
PLOT DATE = 12/21/2010	DRAWN - DLH	REVISED -	
PLOT TIME = 10:31:25 AM	CHECKED - CWC/SDS	REVISED -	

WHKS & co. ENGINEERING
7018 KINGSMILL CT., SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 055-0083
SHEET NO. 34 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
542	105BR-1	McDONOUGH	117	74

CONTRACT NO. 68482
ILLINOIS FED. AID PROJECT