Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Page 2 of 2

Date 6/10/10

ROUTE FA 14 DESCRIPTION IL 15 Bridge over IL 13 (Old Freeburg Rd) & ICG Railroad LOGGED BY KEG

SECTION 27-1-VHB LOCATION St. Clair Twp - 1.4m E of IL 159; W 1/2

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA & Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052 (existing)
Station
BORING NO. SB-9
Station 710+78
Offset 13.0 ft Lt
Ground Surface Elev. 468.76 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY: Brown (A-7) *(continued)*			
427.0			
SILT: Brown (A-4)			
	6		
	8	2.7	26
-45	11	S	
	5		
Becomes dark brown and clayey	7	2.3	24
-50	9	B	
416.8			
CLAY: Gray, some sand (A-7)			
	4		
	6	2.2	21
-55	8	B	
412.0			
SILTY SAND: Grayish brown and dark brown, fine, trace to some organics, trace gravel (A-2)			
	4		
	11	0.1	24
-60	14	B	

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 452.8 ft ▼
Upon Completion - ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY SAND: Grayish brown and dark brown, fine, trace to some organics, trace gravel (A-2) *(continued)*			
407.0			
SILTY CLAY: Brown (A-7)			
	3		
	3	0.8	25
-65	3	B	
Becomes greenish gray	1		
	2	0.7	24
-70	3	B	
397.8			
SANDY CLAY: Brown, trace gravel (A-6)			
	2		
	4	1.5	25
-75	23	P	
389.8	23		
WEATHERED LIMESTONE: Gray 389.7	50/1"	-	24
-80 End of Boring			

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)

Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Page 1 of 2

Date 5/19/11

ROUTE FAP 103 DESCRIPTION IL 15 over IL 13 (Freeburg Avenue) and CN-IC RR LOGGED BY KEG

SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052
Station
BORING NO. SB-10
Station 710+71.52
Offset 1.1 ft RT
Ground Surface Elev. 464.77 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL - 2 inches			
464.6			
SILT: Brown, with coal seam, trace organics (A-4)	3		
	3		21
462.3	6		
CLAYEY SILT: Brown (A-4)			
	4		
	4	1.8	21
459.8 -5	5	S	
CLAY: Brown and reddish brown, trace organics (A-7)	1		
	3	1.4	28
457.3	3	S	
SILTY CLAY: Gray, with iron stains and nodules, trace roots (A-6)			
		2.0	28
454.8 -10			
CLAY: Reddish brown (A-7)	1		
	2	1.3	26
	14	S	
449.8 -15			
SILTY CLAY: Brown (A-6)	1		
	3	1.7	24
	4	S	
444.8 -20			

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 451.8 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Gray and brown (A-7)			
	2		
	3	1.9	22
	3	S	
Trace fine sand			
	2		
	2	1.9	25
439.8 -25	3	S	
SILTY CLAY: Gray (A-6)			
	2		
	2	1.4	21
437.3	4	S	
CLAY: Brown (A-7)			
	3		
	4	2.3	23
-30	5	S	
			27
429.8 -35			
SILTY CLAY: Gray (A-6)			
	2		
	3	1.9	23
424.8 -40	7	S	

The Uncorfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Date 5/19/11

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SECTION 27-1-VHB-1 LOCATION Belleville, Illinois

COUNTY St. Clair DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 082-0051/0052
Station
BORING NO. SB-10
Station 710+71.52
Offset 1.1 ft RT
Ground Surface Elev. 464.77 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY SILT: Dark brown (A-4)			
	2		
	4	2.2	32
-45	10	S	
414.8 -50			
SILTY SAND: Dark gray (A-3)	4		
	10		17
	10		
389.8 -75			
WEATHERED LIMESTONE			
387.8			
End of Boring			
	3		
404.8 -90	6		24
	6		

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 451.8 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Gray (A-7)			
	3		
	3	1.2	25
-65	4	S	
Becomes greenish gray			
	3		
	3		23
-75	5		

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)

FILE NAME = 082017-0118-76884-058-Boring Logs.dgn

STV

USER NAME = brazzara	DESIGNED - RAB	REVISED -
	CHECKED - JAN	REVISED -
PLOT SCALE = 2.0000 '' / IN.	DRAWN - RAB	REVISED -
PLOT DATE = 10/19/2011	CHECKED - JAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 082-0117 (E.B.) & 082-0118 (W.B.)
SHEET NO. S-58 OF S-62 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	173
		CONTRACT NO. 76884		
	ILLINOIS FED. AID PROJECT			