Kaskaskia Engineering Group, LLC

SOIL BORING LOG

Date 5/18/11

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-12
Station 708+77.39
Offset 1.6 ft LT
Ground Surface Elev. 465.95 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 453.0 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY SILT: Gray, trace fine sand (A-4)			
	5		
-5	6 7	1.4 S	21
416.0 -50			
CLAY: Gray, trace pebbles (A-7)			
	1		
-55	3 4	0.7 S	22
Becomes dark gray			
	WOH		
-60	2 2		28
CLAY: Gray, trace pebbles (A-7) *(continued)*			
Becomes greenish gray			
-65			
	3		
-70	7 8		29
396.0			
CLAYEY SHALE			
Bottom 1 inch - limestone pieces 394.0			
End of Boring	50/4"		21
-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)

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

STRUCT. NO. 082-0051/0052
Station
BORING NO. SB-13
Station 703+42.56
Offset 0.3 ft RT
Ground Surface Elev. 492.07 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 439.1 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown silty clay (A-6)			
	3		
	5 5	3.2 S	17
489.6			
FILL: Brown clayey silt (A-4)			
	4		
-5	4 6	3.6 S	20
487.1			
FILL: Dark gray clayey silt (A-4)			
	5		
	4 4	2.0 S	25
-10			
	2		
480.3	3 4	1.4 S	27
FILL: Dark gray silt (A-4)			
-15			
	4		
	4 5	2.8 S	21
-20			
FILL: Dark gray silt (A-4) *(continued)*			
	3		
	4 7	2.3 S	21
	3		
-25	5 8	3.1 S	20
467.1			
FILL: Dark gray clayey silt, trace organics (A-4)			
	4		
Becomes brown and light gray 464.6	4 8	2.4 S	20
FILL: Dark gray silty clay (A-6)			
	3		
-30	5 7	2.6 S	22
457.1			
CLAY: Brown and gray (A-7)			
-35			
	1		
-40	2 4	1.6 S	25

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Station 703+42.56
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Ground Surface Elev. 492.07 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 439.1 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown and gray (A-7) *(continued)*			
Becomes gray and brown			
	1		
	3 3	1.0 S	26
447.1 -45			
SILTY CLAY: Gray, with iron stains and nodules, trace fine sand (A-6)			
		1.1	31
442.1 -50			
CLAY: Brown (A-7)			
	3		
437.1 -55	3 4	1.1 S	24
SILTY CLAY: Brown and gray (A-6)			
	3		
-60	4 6	2.5 S	22
SILTY CLAY: Brown and gray (A-6) *(continued)*			
With coarse sand			
	3		
427.6 -65	5 4		22
SANDY CLAY: Brown (A-6)			
-70			
422.1			
CLAY: Gray (A-7)			
	4		
-75	5 9	3.5 S	23
Trace gravel and organics			
413.4	5		
SANDY CLAY: Gray 412.9 (A-6)	6 10		35
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, form 137 (Rev. 8-99)

FILE NAME = 082019-0120-76884-049-Boringlogs.dgn

STV

USER NAME = brazzaro	DESIGNED - MJK	REVISED - ·
	CHECKED - JAN	REVISED - ·
PLOT SCALE = 20.0000 '' / IN.	DRAWN - MJK	REVISED - ·
PLOT DATE = 10/19/2011	CHECKED - JAN	REVISED - ·

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 082-0119 (E.B.) & 082-0120 (W.B.)
SHEET NO. S-49 OF S-51 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1-VHB-1	ST. CLAIR	277	226
		CONTRACT NO. 76884		
	ILLINOIS FED. AID PROJECT			