Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

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Date 2/14/12

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY DLD

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 17, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD HSA HAMMER TYPE CME 550X / 89%

STRUCT. NO. 8C082I064R004.3
Station MP 4.3

BORING NO. ST-19
Station
Offset
Ground Surface Elev. 430.37 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter ** ft
Upon Completion ** ft
After ___ Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray, SILTY LOAM (FILL)			
	2		
	4		23
	9		
427.37			
Gray to brown, SILTY CLAY (FILL), trace gravel			
	2		
	4	2.2	22
-5	6	B	
	3		
	3		21
	4		
	3		
	5	3.5	24
-10	7	S	
	2		
	4	1.9	23
	7	S	
417.37			
Black and gray, CLAY (FILL), trace brick, glass, and cinders			
	2		
	6		19
-15	9		
	2		
	7		34
with wood	5		
412.37			
Medium stiff, brown, CLAY			
	1		
	2		31
-20	3		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium stiff, brown, CLAY (continued)			
409.37			
Stiff, brown, SILT			
	2		
	5		9
	5		
	2		
Grain size distribution conducted			
	4		8
-25	7		
	5		
	6		9
	4		
402.37			
Medium stiff, brown, SILTY LOAM			
	4		22
-30	4		
398.37			
Medium dense, brown, FINE GRAINED SAND, trace silt			
	4		
	9		
-35	11		
393.37			
Medium dense, brown, FINE TO MEDIUM GRAINED SAND			
	4		
	5		
390.37 -40	7		

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)

* Rimac not measured due to sample disturbance
** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
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SOIL BORING LOG

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Date 12/16/11

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BJS

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 17, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD HSA HAMMER TYPE CME 55 TRK / 83%

STRUCT. NO. 8S082I064L004.4
Station MILE MARKER 4.5

BORING NO. ST-18
Station
Offset
Ground Surface Elev. 437.6 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter ** ft
Upon Completion ** ft
After ___ Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray, SILTY CLAY LOAM (FILL), with gravel and brick			
	3		
	5		24
	6		
	3		
	5		30
-5	10		
	7		
	8	2.3	37
	11	S	
	2		
	3	1.9	22
-10	5	S	
424.6			
		2.0	23
		B	
Gray, SILTY LOAM (FILL)			
	2		
	3		20
-15	5		
422.1			
Gray, SILTY CLAY LOAM (FILL), trace gravel			
	1		
	3	1.9	22
	5	B	
419.6			
Grayish-brown and brown, CLAY (FILL)			
	2		
	4	2.0	29
-20	7	S	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Grayish-brown and brown, CLAY (FILL) (continued)			
	4		
	4	3.1	21
	6	S	
	3		
	4		25
-25	7		
412.1			
Black cinders (FILL), trace sand			
	2		
	8		
	7		
409.6			
Medium stiff, gray, CLAY			
	2		
	3	1.3	42
-30	4	S	
	2	1.4	31
-35	3	S	
400.6			
Medium dense, brown, FINE GRAINED SAND			
	5		
	7		
397.6 -40	10		

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)

* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

FILE NAME = D8TRI-76C45-sht-soil_boring.dgn	USER NAME = mmccanachie	DESIGNED - PMK	REVISED -
		DRAWN - PMK	REVISED -
	PLOT SCALE = 3.1676 ' / in.	CHECKED - MPW	REVISED -
	PLOT DATE = 3/13/2012	DATE - 3/13/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING

SCALE: N/A | SHEET NO. 5 OF 7 SHEETS | STA. N/A | TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	82-1SG	ST. CLAIR	145	143
•998/70/64		CONTRACT NO. 76C45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		