Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
geotechnology

Date 2/16/01

ROUTE FAI 64 DESCRIPTION Trilevel Interchange LOGGED BY BEC

SECTION 081-5HB LOCATION , SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger and Mud Rotary HAMMER TYPE Automatic Hammer

STRUCT. NO. 8C082I070R002.7
Station ST. CLAIR STA 68+00

BORING NO. B-15
Station
Offset
Ground Surface Elev. 413.50 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 (%)
Loose, brown, SANDY LOAM			
	1		
	2	*	18
	4		
410.50			
Medium stiff, brown, SANDY CLAY LOAM			
	3		
	2	*	17
-9	3		
408.00			
Soft to medium stiff, brown, SANDY LOAM			
	2		
	3	*	19
	3		
	1		
	2	*	18
-10	2		
Bottom of Pier 2 Elev. 401.5			
	1		
	1	0.3	18
	1	P	
400.50			
Soft, brown, SANDY CLAY LOAM with Fe staining			
	0		
	1	0.3	19
-15	3	P	
	1		
	2	0.3	19
	2	P	
395.50			
Medium dense, gray, SANDY LOAM			
	3		
	5		16
-20	8		
393.00			
Medium dense, brown, SANDY LOAM			
	1		
	2		14
	2		
390.00			
No Recovery			
	5		
	4		
388.50 -25	4		
Very loose, brown, SANDY LOAM with seams of highly plastic clay and brick/concrete fragments			
	1		
	1		19
	2		
	0		
	0		
-30	0		
381.50			
Medium dense, brown, FINE GRAINED SAND with gravel/crushed limestone			
	6		
	9		
-35	9		
Started Mud Rotary @ 35'			
	1		
	1		
-40	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)

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

BBS, from 137 (Rev. 8-99)

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Upon Completion ** ft
After ** Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
371.50			
Medium dense to dense, gray to grayish brown, FINE GRAINED SAND with lenses of light gray, weathered limestone @ 72' - 80' See Attached Gradation Test Results			
	2		
	8		
-45	12		
	6		
	6		
-50	5		
	7		
	12		
-55	16		
See Attached Gradation Test Results			
	14		
	19		
-60	21		
Medium dense to dense, gray to grayish brown, FINE GRAINED SAND with lenses of light gray, weathered limestone @ 72' - 80' (continued)			
	10		
	13		
-65	15		
	8		
	12		
-70	15		
See Attached Gradation Test Results	9		
	13		
-75	13		
333.50 -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)

* 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 = mmcconachie	DESIGNED - PMK	REVISED -
		DRAWN - PMK	REVISED -
	PLOT SCALE = 1.5838 ' / in.	CHECKED - MPW	REVISED -
	PLOT DATE = 2/2/2012	DATE - 2/2/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING

SCALE: N/A | SHEET NO. 2 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	140
•998/70/64		CONTRACT NO. 76C45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		