SB-103

SOIL BORING LOG

PAGE 1 of 4
DATE 5/19/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic
STRUCT. NO. 082-W309
Station: --
BORING NO. SB-103
Station: 18+66
Offset: 16.0' Right
Ground Surface Elev. 418.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 401.5
Upon Completion n/a
After 24 Hrs. 399.5

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	AS	-	18	SILTY LOAM-brown-stiff (A-4)
	1			
	1			
	2	1.75P	21	
415.0				
	1			
	10			CINDERS & STONE-black-medium dense (Fill)
-5	14	NP	10	
	8			
	7			
	6	NP	28	
410.5				
	12			CRUSHED BRICK-medium dense (Fill)
	5			
-10	6	NP	6	
	3			
	5			
	7	NP	17	
405.5				
	2			SILTY CINDERS-dark brown to black-loose (Fill)
	2			
-15	4	NP	43	
	2			
	3			
	4	NP	31	
400.5				
	5			CINDERS, STONE & BRICK-loose to medium dense (Fill)
	7			
-20	5	NP	22	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	2			CINDERS, STONE & BRICK-loose to medium dense (Fill)
	2			
	2	NP	33	
395.5				
	2			SILTY CLAY-dark gray to black-(A-4/A-7) Wet
-25	2	<0.25P	38	
	4			
	1			
	3	<0.25P	37	
389.0				
-30	1	0.25P	56	SANDY LOAM to SAND-gray-medium dense (A-2/A-3)
	2			
	7			
	17	NP	26	
385.5				
	10			SAND-brown & gray-loose to dense (A-3)
	11			
-35	12	NP	22	
	7			
	11			
	15	NP	17	
	9			
	15			
-40	22	NP	12	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	14			SAND-brown & gray-loose to dense (A-3)
	18			
	23	NP	15	
	10			
	11			
-45	9	NP	17	
	9			
	16			
	17	NP	15	
	10			
	16			
-50	23	NP	19	
	7			
	7			
	16	NP	16	
	10			
	12			
-55	19	NP	16	
	17			
	20			
	17	NP	18	
	15			
	13			
-60	11	NP	15	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	9			SAND-brown & gray-loose to dense (A-3)
	10			
	13	NP	16	
	10			
	11			
-65	13	NP	17	
	9			
	3			
	4	NP	18	
	2			Trace organics from -68.5' to -70.0'.
-70	6	NP	33	
	8			
	11			
	13	NP	23	
	9			
	11			
-75	12	NP	20	
	8			
	8			
	10	NP	25	
340.5				
	14			SAND with Gravel-brown & gray-medium dense (A-1-b)
	13			
-80	13	NP	15	

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After 24 Hrs. 399.5

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	9			SAND-loose to cense (A-3)
318.0				
	10			SAND with Gravel-brown & gray-medium dense (A-1-b)
	10			
	10	NP	13	
335.5				
	8			SAND-brown & gray-loose to dense (A-3)
	7			
-85	8	NP	16	
	9			
	10			
	10	NP	14	
	8			
	11			
-90	12	NP	16	
	9			
	9			
	10	NP	13	
	8			
	10			
-95	11	NP	16	
	11			
	11			
	15	NP	12	
	15			
	19			
-100	27	NP	16	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	12			SAND with Gravel-brown & gray-medium dense (A-1-b)
	15			
	12	NP	10	
315.5				
	7			SAND-brown & gray-medium dense to very dense (A-3)
	5			
-105	7	NP	18	
	12			
	11			
	10	NP	19	
	17			
	29			
-110	40	NP	11	
308.0				
	25			SAND with Gravel-brown & gray-very dense (A-1-b)
	26			
	46	NP	10	
305.5				
	50/4"			SAND-brown-very dense (A-3)
-115		NP	16	
	50/1"			
301.5				
Drillers Observation: Apparent Bedrock. 301.0			NR	
				RUN 1 (-117.5' to -127.5') Mississippian System, Valmeyeron Series Limestone
			RUN 1	
-120				

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FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - TCG	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE - 05/13/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION
RETAINING WALL

SOIL BORING LOGS
1 OF 26

SCALE: | SHEET NO. RB-7 OF RB-32 | STA. 801+75.00 TO STA. 809+75.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	287
	SN 082-W309	CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		