SB-116

SOIL BORING LOG

PAGE 1 of 4
DATE 7/15-16/2009
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 Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automatic

STRUCT. NO. 082-0329
Station: --
BORING NO. SB-116
Station: 1677+24
Offset: 72.5' Left
Ground Surface Elev. 409.1

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 398.6

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL with Wood Chips (Fill)	408.1		AS	–	80
CLAY LOAM with Cinders-black-medium dense (Fill) Wet	406.1		2 5 5	–	29
SILTY CLAY-dark brown-stiff to very stiff (A-6) Wet	400.6		1 2 4	2.3B	90 30
SILTY CLAY-brown & gray-soft to medium stiff (A-6/A-7) Wet	393.6		2 3 1 1 1	1.0B 0.75P	82 34 83 36
SANDY LOAM-gray-very loose to dense (A-2)	391.1		1 1 1	NP	81 33
SILTY CLAY-gray-soft (A-7) Wet			1 0 0	0.25B	57 70
SILTY CLAY-gray-soft (A-7) Wet	388.6				
SANDY LOAM-gray-loose (A-2) Trace Organics	386.1		3 4 3	NP	29
SILTY CLAY-dark gray-soft (A-7) Wet	383.6		1 2 3	0.4B	65 57
SANDY LOAM-gray-very loose to dense (A-2)			2 7 7 5 4 4 5 7 8 14 24 20 22 23 9 5 6	NP	28 30 30 19 21 25

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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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY LOAM-very loose to dense (A-2)	368.6				
SAND-brown & gray-medium dense to dense (A-3)			21 24 28 22 26 28 14 21 23 21 23 24 21 8 8 11 10 10 24 24 8 7 12 22 8 11 21	NP	
SAND-brown & gray-medium dense to dense (A-3)			11 12 15 14 10 14 10 17 21 15 14 16 19 19 12 11 9 10 17 24 8 9 8 5	NP	21 20 21 24 20 15
SANDY LOAM-dark gray-medium dense (A-2) Trace Organics	333.6				
SAND-gray-medium dense (A-3)	331.1				

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After 24 Hrs. 398.6

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-gray-medium dense (A-3)	326.1		8 7 5	NP	25
SAND with Gravel-brown-medium dense (A-1-b)	323.6		16 8 10	NP	9
SAND-gray-medium dense (A-3)	299.6		11 10 9 11 11 13 9 10 10 10 17 12 10 9 8	NP	12 13 15 15 9
SAND with Gravel-gray-very dense (A-1-b)	312.1		21 30 50/5"	NP	14
SAND with Gravel-gray-very dense (A-1-b)	307.6		50/2"		
SAND & Gravel-gray-very dense (A-1)	289.6		50/4" 50/2" 50/4"	NP	15 15 16
RUN 1 (-109.5' to -119.5') Mississippian System, Valmeyeran Series Limestone. Light gray & fine grained with horizontal to wavy bedding. Numerous horizontal fractures throughout. 1/4" clay parting @ -113.5'. Recovery=97.5% R.Q.D.=56.2%					RUN 1
RUN 2 (-119.5' to -124.5')					RUN 2

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..\99999999-CONN-99-001-SHS.DGN ..\082031B-CONN-99-001-BD.DGN
5/11/2011 9:57:54 AM ..\V5 8244\MNYNDL\D-TRANS 97\2282\208959-001\STRUCTURE\CADD\01 DESIGN\082-0329\SHEET\082-0329-CONN-12-009 SHT-H5.DGN

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER TRRA & ST. CLAIR AVENUE	SOIL BORING LOGS 3 OF 18	F.A.P RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR / TOTAL SHEETS 345	SHEET NO. 240
		DRAWN - TCG	REVISED -						
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -				SN 082-0329	CONTRACT NO. 76D05	
	PLOT DATE = $DATE$	DATE - 05/13/11	REVISED -		SCALE: SHEET NO. SB-48 OF SB-63 STA. 1679+16.65 TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	