SB-119

SOIL BORING LOG

PAGE 1 of 4
DATE 5/8-12/2009
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. 082-0328
Station: --
BORING NO. SB-119
Station: 1682+57
Offset: 46.0' Left
Ground Surface Elev. 416.0

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CINDERS & SAND--black-loose (Fill)			AS	NP	9
			6		
			8		
			5	NP	20
	413.0				
SAND-brown-very loose to loose (A-3)			1		
			2		
		-5	1	NP	12
			1		
			1		
			1	NP	8
			1		
			2		
		-10	2	NP	12
			2		
			1		
			1	NP	25
	403.0				
SILTY LOAM-brown-very loose (A-4)			1		
			0		
		-15	1	NP	27
	400.5				
SILTY CLAY-brown & gray-medium stiff (A-7) Wet			1		81
			4		
			4	0.88	38
	398.0				
SAND-brown-loose to dense (A-3)			3		
			2		
		-20	3	NP	27
SAND-brown-loose to dense (A-3)			2		
			3		
		-25	4	NP	24
			6		
			6		
			6	NP	23
			8		
			21		
		-30	23	NP	21
			17		
			20		
			17	NP	22
			13		
			15		
		-35	10	NP	21
	380.5				
SANDY LOAM-brown-loose (A-2)			3		
			2		
			4	NP	30
	378.0				
SANDY LOAM to SAND-brown-loose to medium dense (A-2/A-3)			3		
			3		
		-40	6	NP	29

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 to SAND-brown-loose to medium dense (A-2/A-3)			4		
			5		
			5	NP	25
			3		
		-45	3	NP	29
			3		
			5		
			6	NP	30
			6		
		-50	7	NP	25
			5		
			7		
			6	NP	26
			7		
		-55	5		
			4	NP	25
	360.5				
SANDY LOAM to SAND-gray-loose to medium dense (A-2/A-3)			4		
			3		
		-60	4	NP	28
SANDY LOAM to SAND-gray-loose to medium dense (A-2/A-3)			4		
			4		
		-65	5	NP	29
			3		
			2		
			5	NP	34
	348.0				
SAND-brown-medium dense (A-3)			5		
			6		
		-70	9	NP	24
			8		
			9		
			10	NP	21
	343.0				
SAND with Gravel-brown & gray-medium dense (A-1-b)			7		
		-75	7	NP	16
			8		
			11		
			13	NP	15
	338.0				
SAND-brown-medium dense (A-3)			7		
			10		
		-80	8	NP	20

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After 24 Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-brown-medium dense (A-3)	335.5				
			9		
			7		
SAND with Gravel-brown & gray-medium dense (A-1-b)			6	NP	15
			7		
			11		
Trace organics from -83.5' to -85.0'.		-85	10	NP	16
			16		
			10		
			7	NP	12
	328.0				
SAND-brown-medium dense (A-3)			5		
			8		
		-90	8	NP	12
			8		
			8		
			8	NP	13
			8		
		-95	9		
			9	NP	16
			6		
			7		
			9	NP	16
	318.0				
SAND with Gravel-brown & gray-medium dense to dense (A-1-b)			7		
			7		
		-100	11	NP	15
SAND with Gravel-brown & gray-medium dense to dense (A-1-b)			15		
			23		
			26	NP	13
			11		
			9		
		-105	14	NP	9
	310.5				
Drillers Observation: Cobbles & Boulders from -105.5' to -108.5'.					
	307.5				
SAND-brown & gray-very dense (A-3)			50/5"		
		-110		NP	13
			42		
			50/5"		
				NP	14
	303.0				
Drillers Observation: Apparent bedrock.	302.0				
RUN 1 (-114.0' to -124.0') Mississippian System, Valmeyeron Series Limestone		-115	RUN 1		
Light gray & fine grained with horizontal bedding. Highly fractured to -115.8'. Horizontal fractures @ -116.2', -116.6', -117.1', -117.6', -118.2', -118.6' & -118.8'. Vertical fracture from -119.2' to -120.0'. Horizontal fractures @ -120.1', -121.5', -122.1', -122.3', -123.2' & -123.4'.		-120			

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\\99999999-CONN-99-001-HS.DGN \\082031B CONN-99-001 BD.DGN
5-11-2011, 12:02:17 NEWMANKD \\FS-0044\MKVAULT\D-TRANS_07\2202\20868 001\STRUCT\CAD\01 DESIGN\082W308\SHEET\082W308 CONN 18-017-SHT-HS.DGN

FILE NAME = $FILEL$	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
17 OF 20

SCALE: | SHEET NO. RA-22 OF RA-25 | STA. 170+00.00 TO STA. 176+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	277
	SN 082-W308	CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		