SB-109

SOIL BORING LOG

PAGE 1 of 4
DATE 5/11-12/2009
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-W309
Station: --
BORING NO. SB-109
Station: 24+26
Offset: 37.5' Right
Ground Surface Elev. 415.9

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-black-loose (Fill)	412.9		AS 5 4 3	NP NP	21 23
SILTY CLAY-brown-stiff (A-6) Wet	410.4	-5	1 2 3	1.25P	26
SILTY LOAM-brown-loose (A-4)	405.4	-10	1 2 2	NP	16 22
SILTY CLAY-brown-very soft (A-7) Wet	402.9		2 1 1	<0.25P	36
SILTY LOAM-brown-very loose to loose (A-4)	397.9	-15	2 3 2	<0.25P	28
SANDY LOAM-brown-very loose to loose (A-2/A-3)		-20	3 2 2	NP	27
SANDY LOAM-brown-very loose to loose (A-2/A-3)	392.9		2 2 1	NP	31
SAND-brown-loose to dense (A-3)		-25	4 4 4	NP	24
			10 10 10	NP	25
		-30	18 24 28	NP	22
			16 20 18	NP	23
		-35	9 10 9	NP	25
			7 8 11	NP	25
		-40	5 4 5	NP	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 (%)
SAND brown-loose to dense (A-3)	375.4				
SANDY LOAM-gray-loose (A-2)	372.9		6 3 5	NP	29
SAND-brown-medium dense (A-3)		-45	6 7 7	NP	26
			7 6 7	NP	28
		-50	7 7 5	NP	24
SANDY LOAM-gray-medium dense (A-2)	365.4		6 7 7	NP	25
		-55	7 6	NP	25
			5 6 7	NP	27
		-60	7 6	NP	30
SANDY LOAM-gray-medium dense (A-2)			6 8 9	NP	27
		-65	7 6 7	NP	27
SAND-gray-loose to medium dense (A-3)	350.4		8 10 12	NP	24
		-70	5 4 7	NP	22
			6 4 3	NP	24
		-75	5 5 7	NP	25
			12 12 13	NP	23
SAND & GRAVEL-brown & gray-medium dense (A-1)	337.9	-80	13 9 8	NP	9

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND & GRAVEL-brown & gray-medium dense (A-1)	332.9		14 10 7	NP	10
SAND-brown & gray-medium dense to dense (A-3)		-85	14 15 12	NP	13
			24 43 17	NP	14
		-90	13 10 12	NP	14
			12 12 13	NP	15
		-95	13 15 20	NP	14
			11 9 9	NP	15
SAND with GRAVEL-brown & gray-dense (A-1-b)	317.9	-100	13 15 20	NP	15
SAND with GRAVEL-dense (A-1-b)	315.4				
SAND-brown & gray-very dense (A-3)	312.9		21 28 36	NP	16
SAND & GRAVEL-brown & gray-very dense (A-1)		-105	50/5" 50/3"	NP	11 13
SAND with GRAVEL-brown & gray-very dense (A-1-b)	307.9	-110	50/1" 50/5"	NP	NR 17
SANDY LOAM-brown-very dense (A-2)	302.9	-115	50/5"	NP	37
RUN 1 (-115.0' to -125.0') Mississippian System, Valmeyeron Series Limestone	300.9	-120	RUN 1		

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