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	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
CINDERS-black-loose (Fill)		AS / S / 4 / 3	NP	21 / NP / 23
412.9				
SILTY CLAY-brown-stiff (A-6) Wet		1 / 2 / 3	1.25P	26
410.4				
SILTY LOAM-brown-loose (A-4)		1 / 2 / 2	NP	16
405.4				
SILTY CLAY-brown-very soft (A-7) Wet		2 / 1 / 1	<0.25P	36
402.9				
SILTY LOAM-brown-very loose to loose (A-4)		2 / 3 / 2 / 3 / 1 / 2	<0.25P / NP	28 / 29
397.9				
SANDY LOAM-brown-very loose to loose (A-2/A-3)		3 / 2 / 2	NP	27
SANDY LOAM-brown-very loose to loose (A-2/A-3)		2 / 4 / 1	NP	31
392.9				
SAND-brown-loose to dense (A-3)		4 / 4 / 4 / 10 / 10 / 10 / 18 / 24 / 28	NP	24 / 25 / 22
SAND-brown-loose to dense (A-3)		16 / 20 / 18	NP	23
SAND-brown-loose to dense (A-3)		9 / 10 / 9 / 7 / 8 / 11	NP	25 / 25
SAND-brown-loose to dense (A-3)		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	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND-brown-loose to dense (A-3)				
375.4				
SANDY LOAM-gray-loose (A-2)		6 / 3 / 5	NP	29
372.9				
SAND-brown-medium dense (A-3)		6 / 7 / 7	NP	26
SAND-brown-medium dense (A-3)		7 / 6 / 7	NP	28
SAND-brown-medium dense (A-3)		7 / 7 / 5	NP	24
365.4				
SANDY LOAM-gray-medium dense (A-2)		6 / 7 / 7	NP	25
SANDY LOAM-gray-medium dense (A-2)		6 / 7 / 6	NP	25
SANDY LOAM-gray-medium dense (A-2)		5 / 6 / 7	NP	27
SANDY LOAM-gray-medium dense (A-2)		6 / 7 / 7	NP	27
SAND-gray-loose to medium dense (A-3)		7 / 6 / 7	NP	28
SAND-gray-loose to medium dense (A-3)		8 / 10 / 12	NP	24
SAND-gray-loose to medium dense (A-3)		5 / 4 / 7	NP	22
SAND-gray-loose to medium dense (A-3)		6 / 4 / 3	NP	24
SAND-gray-loose to medium dense (A-3)		5 / 5 / 7	NP	25
SAND-gray-loose to medium dense (A-3)		12 / 12 / 13	NP	23
337.9				
SAND & GRAVEL-brown & gray-medium dense (A-1)		13 / 9 / 8	NP	9

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After 24 Hrs. n/a

Description	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND & GRAVEL-brown & gray-medium dense (A-1)		14 / 10 / 7	NP	10
332.9				
SAND & GRAVEL-brown & gray-medium dense (A-1)		14 / 15 / 12	NP	13
SAND-brown & gray-medium dense to dense (A-3)		24 / 43 / 17	NP	14
SAND-brown & gray-medium dense to dense (A-3)		13 / 10 / 12	NP	14
SAND-brown & gray-medium dense to dense (A-3)		12 / 12 / 13	NP	15
SAND-brown & gray-medium dense to dense (A-3)		13 / 15 / 20	NP	14
317.9				
SAND with GRAVEL-brown & gray-dense (A-1-b)		13 / 15 / 20	NP	15
SAND with GRAVEL-dense (A-1-b)		21 / 28 / 36	NP	16
315.4				
SAND-brown & gray-very dense (A-3)		50/5"	NP	11
312.9				
SAND & GRAVEL-brown & gray-very dense (A-1)		50/3"	NP	13
307.9				
SAND with GRAVEL-brown & gray-very dense (A-1-b)		50/1"	NR	
302.9				
SANDY LOAM-brown-very dense (A-2)		50/5"	NP	17
300.9		50/5"	NP	37
RUN 1 (-115.0' to -125.0') Mississippian System, Valmeyeron Series Limestone		RUN 1		

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