SB-125

SOIL BORING LOG

PAGE 1 of 4
DATE 5/5/2009
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. 082-0329
Station: --
BORING NO. SB-125
Station: 1680+85
Offset: 46.5' Right
Ground Surface Elev. 417.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 395.2

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CONCRETE	416.2				
CINDERS-black-loose (Fill)			3		
			2		
			2	NP	21
			1		
			2		
		-5	2	NP	23
SANDY LOAM-brown-loose to medium dense (A-2)	411.7		2		
			4		
			4	NP	17
			3		
			5		
		-10	5	NP	11
SAND-brown-medium dense (A-3)	406.7		2		
			7		
			7	NP	23
SANDY LOAM-brown-loose (A-2)	404.2		3		
			3		
		-15	4	NP	31
SAND-brown-medium dense to dense (A-3)	401.7		7		
			7		
			11	NP	27
			11		
			17		
		-20	27	NP	21
SAND-brown-medium dense to dense (A-3)			12		
			17		
		20	20	NP	23
			13		
			16		
		-25	21	NP	24
SAND-brown-medium dense to dense (A-3)	379.2		14		
			17		
			19	NP	23
			14		
			15		
		-30	14	NP	26
			12		
			15		
			19	NP	25
			12		
			14		
		-35	21	NP	26
			3		
			5		
			6	NP	30
			4		
			4		
		-40	6	NP	31

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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After 24 Hrs. 395.2

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY LOAM-brown-medium dense (A-2)			3		
			5		
			7	NP	31
			3		
			4		
		-45	7	NP	32
			3		
			4		
			7	NP	28
			3		
			5		
		-50	8	NP	30
			5		
			6		
			7	NP	29
			4		
			4		
		-55	8	NP	30
SAND-gray-medium dense (A-3)	361.7		5		
			5		
			6	NP	27
			7		
			9		
		-60	11	NP	24
SAND-gray-medium dense (A-3)			9		
			9		
			11	NP	26
			8		
			9		
		-65	12	NP	26
			7		
			8		
			12	NP	27
SAND with Gravel-gray-medium dense (A-1-b)	349.2		8		
			8		
		-70	10	NP	12
SAND-gray-dense (A-3)	346.7		12		
			17		
			19	NP	17
			10		
			11		
		-75	20	NP	20
SAND with Gravel-brown & gray-medium dense (A-1-b)	341.7		13		
			16		
			13	NP	17
			11		
			11		
		-80	14	NP	16

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Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 395.2

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND with Gravel (A-1-b)	336.7				
			8		
			12		
			13	NP	17
			13		
			12		
		-85	11	NP	19
SAND with Gravel-brown & gray-medium dense (A-1-b)	331.7		10		
			11		
			9	NP	14
SAND-brown & gray-medium dense to very dense (A-3)	329.2		13		
			20		
		-90	8	NP	21
			10		
			11		
			12	NP	14
			11		
			11		
		-95	13	NP	13
			10		
			10		
			12	NP	12
			9		
			8		
		-100	9	NP	16
SAND-brown & gray-medium dense to very dense (A-3)			14		
			20		
			23	NP	16
			29		
			50/6"		
		-105		NP	12
			13		
			16		
			17	NP	10
			50/0"		
		-110			NR
			35		
			50/6"		
				NP	13
			50/6"		
		302.2 -115			NR
Drillers Observation: Apparent Bedrock.	301.7				
RUN 1 (-115.5' to -120.5') Cobbles from -115.5' to -115.8'. Mississippian System, Valmeyeran Series Limestone. Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -115.4', -116.7', -117.2', -117.7', -118.1', -119.6' & -119.7'. ½" clay parting @ -120.5'.		-120			RUN 1

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