SB-128

SOIL BORING LOG

PAGE 1 of 4
DATE 5/5-7/2009
LOGGED BY MR
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-128
Station: 1684+68
Offset: 47.0' Right
Ground Surface Elev. 416.6

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 (%)
Miscellaneous Concrete & Loam-black	415.6		AS	NP	6
SANDY LOAM-black-loose (A-2/A-4)	413.6		1 3 3	NP	20
SANDY LOAM to LOAM-brown-very loose to loose (A-4)	408.6	-5	1 1 1	NP	23
SILTY CLAY-brown & gray-medium stiff to stiff (A-7) Wet	398.6	-10	2 2 2	NP	23
SANDY LOAM-brown-loose (A-2)		-20	1 1 1	1.0B	45
SANDY LOAM-brown-loose (A-2)	396.1		1 1 ST	1.25P	46
SILTY CLAY LOAM-brown & gray-very loose (A-4)	393.6	-15	1 1 1	0.6S@ 11.3%	45
SILTY CLAY-gray-soft (A-7) Wet	388.6	-25	2 2 2	0.5B	41
SANDY LOAM-gray-very loose to medium dense (A-2)		-35	1 1 1	NP	31
		-40	3 4 3	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-gray-very loose to medium dense (A-2)	371.1	-45	4 5 6 3 7	NP	29 27
SAND-gray-medium dense (A-3)	368.6		6 11 8	NP	15
SAND with Gravel-brown-medium dense (A-1-b)	366.1	-50	7 11 12	NP	10
SAND-gray-loose to dense (A-3)		-55	7 10 9 4 3 5	NP	27 14
		-60	11 17 13 9 12 17	NP	12 19
SAND-gray-loose to dense (A-3)		-65	12 21 28 7 8 12	NP	11 25
Trace organics from -63.5' to -65.0'.	348.6		8 13 12	NP	12
SAND & Gravel-brown & gray-medium dense (A-1)	346.1	-70	9 7 10	NP	6
SAND with Gravel-brown & gray-medium dense (A-1-b)	343.6	-75	9 9 10	NP	16
SAND-gray-medium dense to dense (A-2)		-80	9 12 12 6 9 14 6 8 12	NP	17 13 17

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Upon Completion n/a
After 24 Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-gray-medium dense to dense (A-2)	323.6	-85	10 16 14 9 12 11	NP	16 18
SAND with Gravel-brown & gray-medium dense to dense (A-1-b)	313.6	-90	14 25 28 7 6 7	NP	17 14
SAND with Gravel-brown & gray-medium dense (A-1-b)	303.6	-95	9 10 13 10	NP	12 13
SAND with Gravel-brown & gray-medium dense to dense (A-1-b)		-100	10 11 10 8 9 9	NP	11 11
SAND with Gravel-brown & gray-medium dense to dense (A-1-b)	311.1	-105	20 34 11 12 23 35	NP	10 12
SAND-brown & gray-dense (A-3)	306.1	-110	18 22 28 50/5"	NP	16 12
SAND with Gravel-brown & gray-dense to very dense (A-1-b)	302.1	-115	50/1"	NP	NR 15
Drillers Observation: Cobbles & Boulders.	301.6		50/6"		
SAND-brown & gray-very dense (A-3)		-120			RUN 1
Drillers Observation: Apparent Bedrock					
RUN 1 (-115.0' to -125.0') Mississippian System, Valmeyeran Series Limestone. Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -115.2', -115.6', -115.7', -115.8', -116.0', -116.3', -116.5', -118.8', -119.3', -120.0', -120.3', -120.5', -120.7', -121.3', -121.7', -122.2' & -122.9'. Highly fractured with intersecting horizontal & vertical					

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