SB-126

SOIL BORING LOG

PAGE 1 of 4
DATE 4/29-30/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I70/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-126
Station: 1681+98
Offset: 39.5' Right
Ground Surface Elev. 416.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 395.7

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
9.0" TOPSOIL-black	415.9		AS	–	33
SILTY LOAM-dark brown-very loose (A-4)	413.7		1 1 2	NP	21
SANDY LOAM-brown-very loose (A-2)	411.2	-5	1 1 2	NP	30
SILTY CLAY-brown-stiff (A-7) Wet	408.7		1 2 2	1.25@ 12.7%	79 39
SILT-brown & gray-loose (A-4)	401.2	-10 -15	ST 2 2 2 1 6	NP NP	26 29 33
SAND-brown-medium dense (A-3)	398.7		5 7 5	NP	22 32
SILTY CLAY LOAM-brown-medium dense (A-4) Wet		-20	1 5 8	NP	34
SILTY CLAY LOAM-brown-medium dense (A-4) Wet	395.7		5 11 11	NP	25
SAND-brown-medium dense (A-3)	393.2		1 1 1	NP	38
SILTY CLAY LOAM-brown-very loose (A-4) Wet	391.2	-25	3 2 3	NP	30
SANDY LOAM-brown & gray-very loose to loose (A-2)		-30	1 2 3	NP	34
		-35	1 1 2	NP	33
		-40	2 2 5	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-brown & gray-very loose to loose (A-2)		-45	3 3 5	NP	32
		-50	3 3 6	NP	32
		-55	2 2 3	NP	32
		-60	0 4 4	NP	32
		-65	3 2 4	NP	28
		-70	3 4 4	NP	27
		-75	2 3 4	NP	28
		-80	3 4 8	NP	28
SANDY LOAM-very loose to loose (A-2)	356.2		8 12 14	NP	24
SAND-brown-medium dense (A-3)	353.7		8 11 9	NP	18
SAND-gray-medium dense (A-3)	351.2		0 2 9	NP	525
WOOD (A-8)	348.7		9 13 18	NP	16
SAND-brown & gray-dense (A-3)	346.2		16 13 15	NP	8
SAND & GRAVEL-brown & gray-medium dense (A-1)	341.2		9 10 10	NP	15
SAND-brown & gray-dense (A-3)		-80	8 9	NP	16

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-brown & gray-dense (A-3)	336.2		12 11 12	NP	13
SAND with Gravel-brown & gray-medium dense (A-1-b)	333.7		8 11 13	NP	17
SAND-brown & gray-medium dense (A-3)	331.2		9 10 12	NP	15
Trace organics from -86.0' to -87.5'.		-90	13 8 7	NP	17
SAND with Gravel-brown & gray-medium dense (A-1-b)		-95	10 9 10	NP	18 16
SAND with Gravel (A-1-b)	316.2		14 21 25	NP	17
SAND-brown & gray-dense to very dense (A-3)		-105	50/4"	NP	NR
		-110	15 50/5"	NP	15
SAND with Gravel-brown & gray-very dense (A-1-b)	308.7	-115	42 50/5" 50/1" 50/2"	NP	13 NR NR
RUN 1 (-115.5' to -125.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Weathered to -116.4'. Horizontal fractures @ -115.9', -116.3', -116.4', -116.9', -117.4', -117.8', -118.1', -118.4', -118.8', -119.1', -119.4', -119.6', -120.1' & -120.5'. ½" clay parting @ -120.6'.	301.2	-120	RUN 1		

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