SB-111

SOIL BORING LOG

PAGE 1 of 4
DATE 4/30-5/5/2009
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-W309
Station: --
BORING NO. SB-111
Station: 51+48
Offset: 51.5' Right
Ground Surface Elev. 416.9

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 (%)
			AS	NP	24
SANDY LOAM with Cinders- black-medium dense (Fill)			4		
			6		
			6	NP	25
	413.9				
SANDY LOAM to LOAM- brown-loose (A-4)			2		
			3		
		-5	4	NP	25
	411.4				
SILTY CLAY-brown & gray- medium stiff (A-7) Wet			1		71
			1		
			2	0.58	47
	408.9				
SANDY LOAM to LOAM- brown (A-4)					
	406.9	-10	ST	NP	31
SILTY CLAY-brown & gray- very soft (A-7) Wet			1		
			1		
			2	<0.25P	34
	403.9				
SILT-brown & gray-loose (A-4)			3		
			4		
		-15	4	NP	21
			3		
			3		
			3	NP	28
	398.9				
SANDY LOAM-brown & gray- very loose to medium dense (A-2)			2		
			3		
		-20	3	NP	30
SANDY LOAM-brown & gray- very loose to medium dense (A-2)			2		
			2		
		-25	2	NP	30
			2		
			3		
			2	NP	33
			2		
			3		
		-30	2	NP	32
			2		
			3		
		-35	3	NP	32
			2		
			2		
			2	NP	34
			2		
		-40	4	NP	32

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 medium dense (A-2)			2		
			1		
			2	NP	33
			2		
		-45	1		
			2	NP	32
			4		
			7		
			7	NP	29
			5		
			6		
		-50	7	NP	31
	366.4				
SAND-brown & gray- loose to dense (A-3)			5		
			4		
			5	NP	27
			5		
			6		
		-55	6	NP	27
			3		
			6		
			6	NP	14
			10		
			15		
		-60	17	NP	14
SAND-brown & gray- loose to dense (A-3)			13		
			16		
			13	NP	20
			9		
			11		
		-65	10	NP	22
			14		
			18		
			16	NP	26
			8		
			25		
		-70	26	NP	23
			10		
			21		
			23	NP	16
	343.9				
SAND with Gravel-brown & gray- medium dense (A-1-b)			16		
			12		
		-75	11	NP	11
	338.9				
SAND-brown & gray- medium dense (A-3)			9		
			12		
		-80	9	NP	21

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-brown & gray- medium dense (A-3)			9		
			14		
			14	NP	18
			7		
			5		
		-85	6	NP	17
	331.4				
SAND with Gravel-brown & gray- medium dense (A-1-b)			7		
			7		
			4	NP	12
			7		
			7		
		-90	7	NP	17
	323.9				
SAND-brown & gray- medium dense to dense (A-3)			8		
			8		
		-95	8	NP	14
			7		
			8		
			8	NP	15
			10		
			14		
		-100	20	NP	12
SAND-brown & gray- medium dense to dense (A-3)	315.4		17		
			30		
			29	NP	11
			16		
SAND with Gravel-brown & gray- dense to very dense (A-1-b)			20		
		-105	21	NP	12
			23		
			22		
			23	NP	11
			20		
			40		
		-110	50	NP	9
	306.4				
SAND-brown & gray-dense (A-3)			19		
			17		
			19	NP	10
	303.9				
SAND with Gravel-brown & gray- very dense (A-1-b)			18		
			50/6"		
	301.9	-115		NP	8
RUN 1 (-115.0' to -125.0') Mississippian System, Valmeyeran Series Limestone					
Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Soft & argillaceous from -121.9' to -122.1'. Horizontal fractures @ -115.9', -116.9', -117.2', -118.5', -118.7', -119.5', -120.5', -121.0', -121.5', -121.9', -122.1', -122.9',					RUN 1
		-120			

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..\99999999-CONN-99-001-MS.DGN, ..\0822031B CONN 99 001-BD.DGN
5/11/2011 10:02:28 NEWMANWD \\IS 0044\WA\VAULT_D-TRANS_07\2202\20869-001\STRUCT\CADVDI DESIGN\0822W309\SHEET\0822W309-CONN-10-017-SHT-MS.DGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - TCG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 05/13/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION
RETAINING WALL

SOIL BORING LOGS
17 OF 26

SCALE: | SHEET NO. RB-23 OF RB-32 | STA. 801+75.00 TO STA. 809+75.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	303
SN 082-W309		CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		