SB-111

SOIL BORING LOG

PAGE 1 of 4
DATE 4/30-5/5/2009
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-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 (%)
SANDY LOAM with Cinders-black-medium dense (Fill)	413.9		AS, 4, 6, 6	NP	24, 25
SANDY LOAM to LOAM-brown-loose (A-4)	411.4	-5	2, 3, 4	NP	25
SILTY CLAY-brown & gray-medium stiff (A-7) Wet	408.9		1, 1, 2	0.58	71, 47
SANDY LOAM to LOAM-brown (A-4)	406.9	-10	ST	NP	31
SILTY CLAY-brown & gray-very soft (A-7) Wet	403.9		1, 1, 2	<0.25P	34
SILT-brown & gray-loose (A-4)	398.9	-15	3, 4, 4	NP	21
SANDY LOAM-brown & gray-very loose to medium dense (A-2)		-20	3, 3, 3	NP	30
SANDY LOAM-brown & gray-very loose to medium dense (A-2)		-25	2, 2, 2	NP	30
		-30	2, 3, 2	NP	33
		-35	2, 3, 2	NP	32
		-40	2, 2, 2	NP	34
			2, 2, 3	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

SB-111

SOIL BORING LOG

PAGE 2 of 4
DATE 4/30-5/5/2009
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-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 (%)
SANDY LOAM-brown & gray-very loose to medium dense (A-2)		-45	2, 1, 2	NP	33, 32
		-50	4, 7, 7	NP	29
		-55	5, 6, 7	NP	31
SAND-brown & gray-loose to dense (A-3)	366.4		5, 4, 5	NP	27
		-60	6, 6, 6	NP	14
		-65	10, 15, 17	NP	14
SAND-brown & gray-loose to dense (A-3)		-70	9, 14, 16	NP	26
		-75	18, 25, 26	NP	23
SAND with Gravel-brown & gray-medium dense (A-1-b)	343.9		10, 21, 23	NP	16
		-80	16, 12, 11	NP	11
SAND-brown & gray-medium dense (A-3)	338.9		9, 12, 13	NP	19
			9, 12, 9	NP	21

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

SB-111

SOIL BORING LOG

PAGE 3 of 4
DATE 4/30-5/5/2009
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-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 (%)
SAND-brown & gray-medium dense (A-3)	331.4		9, 14, 14	NP	18
SAND with Gravel-brown & gray-medium dense (A-1-b)		-85	7, 5, 6	NP	17
		-90	7, 7, 7	NP	17
SAND-brown & gray-medium dense to dense (A-3)	315.4		9, 8, 8	NP	12
SAND with Gravel-brown & gray-dense to very dense (A-1-b)		-105	17, 30, 29	NP	11
		-110	16, 20, 21	NP	12
SAND-brown & gray-dense (A-3)	306.4		23, 22, 23	NP	11
	303.9		20, 40, 50	NP	9
SAND with Gravel-brown & gray-very dense (A-1-b)	301.9	-115	19, 17, 19	NP	10
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'.		-120	18, 50/6", 50/6"	NP	8

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION RETAINING WALL	SOIL BORING LOGS 11 OF 20	F.A.P RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345 / SHEET NO. 271
		DRAWN - TCG	REVISED -			SN 082-W308		CONTRACT NO. 76D05	
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED -	REVISED -		SCALE:	SHEET NO. RA-16 OF RA-25	STA. 170+00.00 TO STA. 176+50.00	FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT
	PLOT DATE = $DATE$	DATE - 05/13/11	REVISED -						

\\999999-CONN-99-001-MS.DGN \\826318-CONN-99-001-BD.DGN
5/11/2011 9:59:55 NEWMANMD \\VS-0044\CAM\VAULT_D-TRANS_07\2202\20868-001\STRUCT\CADD\DESIGN\082W308\SHEET\082W308-CONN10-011-SHT-MS.DGN