

SB-02

SB-02

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Geo Services Inc. Geotechnical, Environmental & Civil Engineering
805 West 1st Street, Suite 204
Naperville, Illinois 60563

SOIL BORING LOG PAGE 1 of 4
DATE 3/11-12/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I-70 DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION 82-2-1HVB LOCATION I-70 Curved Approach Structures
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. S.N. 082-0318
Station: 127+00 to 140+74
BORING NO. SB-02
Station: 130+04
Offset: 43.0' Right
Ground Surface Elev. 405.3

D E P T H S	B L O W S	U N I T S	M O I S T U R E	Surface Water Elev. n/a	Stream Bed Elev. n/a	Groundwater Elevation: First Encounter 395.3 Upon Completion n/a After 24 Hrs. n/a	D E P T H S	B L O W S	U N I T S	M O I S T U R E
TOPSOIL-black 404.3										
2										
3										
3	1.2B									
CLAY-dark brown & gray-medium stiff to stiff (A-7) Wet 80										
-5	ST	0.6B					-25	8	NP	22
2										
5										
5	1.5P									
Sand seams from -6.0' to -10.0'. 377.3										
2										
2										
2		0.25P					-30	13	NP	24
SAND-gray-medium dense (A-3) 354.8										
6										
6										
7	NP									
SAND-brown-loose to medium dense (A-3) 349.8										
8										
9										
-15	7	NP					-35	9	NP	28
5										
5										
4	NP									
6										
7										
-20	7	NP					-40	13	NP	16

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SAND with Gravel (A-1-b) 344.8										
7										
6										
6	NP									
SAND-gray-medium dense to dense (A-3) 357.3										
2										
5										
6	NP						-45	6	NP	13
Clay seams from -43.5' to -45.0'. 354.8										
12										
16										
20	NP									
SAND with Clay Seams-gray-medium dense (A-2) 334.8										
3										
6										
11		<0.25P					-50	11	<0.25P	34
SAND-gray-medium dense to dense (A-3) 329.8										
10										
16										
25	NP									
SAND & GRAVEL-gray-very dense (A-1) 306.3										
14										
26										
-55	33	NP					-75	27	NP	11
SAND with Gravel-gray-medium dense (A-1-b) 288.5										
10										
13										
14	NP									
8										
11										
11										
-80	13	NP					-80	22	NP	12

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SAND-brown & gray-medium dense to very dense (A-3) 299.3										
19										
34										
35	NP	14								
COBBLES, BOULDERS & GRAVEL-gray-very dense (A-1) 298.8										
18										
19										
-65	19	NP					-65	19	NP	18
Drillers Observation: Cobbles & Boulders 298.8										
18										
27	NP	22								
RUN 1 (-106.5' to -107.0') Cobbles & Boulders										
17										
21										
-90	27	NP	14				-90	27	NP	14
RUN 1 (-107.0' to -116.5') Mississippian System, Valmeyeran Series Limestone										
18										
31										
28	NP	13								
Light gray & fine grained with horizontal bedding becoming gray & coarser grained @ -112.35'. No chert replacement encountered. Horizontal fractures @ -107.6', -107.7', -107.9', -108.1', -108.3', -108.5', -108.9', -109.3', -109.5', -109.8', -110.4', -110.6', -110.7', -111.3', -112.9', -113.2', -113.9' & -115.2'. 312.3										
41										
29										
-95	28	NP	15				-95	28	NP	15
SAND & GRAVEL-brown & gray-dense (A-1) Recovery=92.1% R.Q.D.=71.1% 309.8										
9										
19										
21	NP	14								
Silty SAND & GRAVEL-brown & gray-dense (A-2) Recovery=100.0% R.Q.D.=40.0% 286.3										
26										
503*										
COBBLES, BOULDERS & GRAVEL-gray-very dense (A-1) RUN 3 (-119.0' to -121.5') Gray with horizontal bedding. Fine grained 286.3										
-100										

0820318-CONN-05-010-MS.DCN, 0820318-CONN-96-001-BOLDEN, 0820318-CONN-05-010-MS.DCN, 0820318-DESIGN-0820318-SHEET, 0820318-CONN-05-003-SHT-MS.DCN, 0820318-CONN-05-010-MS.DCN, 0820318-DESIGN-0820318-SHEET, 0820318-CONN-05-003-SHT-MS.DCN, 0820318-CONN-05-010-MS.DCN, 0820318-DESIGN-0820318-SHEET, 0820318-CONN-05-003-SHT-MS.DCN

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION OVER NS, TRRA, MCT AND INDUSTRIAL DR.	SOIL BORING LOGS 3 OF 20			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
#FILE#	PLOT SCALE = #SCALE#	DRAWN - SNB	REVISED -		SCALE:	SHEET NO. S-94	OF S-111	STA. 134+22.00	TO STA.	998	82-2-1HVB	ST. CLAIR	285	204
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = #DATE#	CHECKED -	REVISED -		CONTRACT NO. 76C44			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT						
		DATE - 06/04/10	REVISED -											