SB-02

Geo Services, Inc.
Geotechnical, Environmental, Civil Engineering
805 Dearborn Court, Suite 204
Naperville, Illinois 60563
630-355-7868

SOIL BORING LOG

PAGE 4 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

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 ▽

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
with no chert encountered. Horizontal fractures @ –119.7' & –120.1'. Thin clay partings @ –120.8', –121.0' & –121.1'. 283.8		RUN 3					
End Of Boring @ –121.5' Hollow Stem Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer 10' Of 4"* Casing Used 108' Of 3"* Casing Used							
–125				–145			
–130				–150			
–135				–155			
–140				–160			

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-02 Run-1

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ROCK CORE LOG

PAGE 1 of 2
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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
CORING METHOD Rotary Wash

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

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 298.3
Begin Core Elev. 298.8

	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (–106.5' to –107.0') Cobbles & Boulders RUN 1 (–107.0' to –116.5') Mississippian System, Valmeyeran Series Limestone 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'.	298.8 298.3	1	92.1	71.1	n/a	999@ -107.6'
	–5					
	–10					

Color pictures of the cores Yes Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

SB-02 Run-2&3

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ROCK CORE LOG

PAGE 2 of 2
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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
CORING METHOD Rotary Wash

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

CORING BARREL TYPE & SIZE NX Double Swivel-5 ft
Core Diameter 2.0 in
Top of Rock Elev. 298.3
Begin Core Elev. 298.8

	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 2 (–116.5' to –119.0') Mississippian System, Valmeyeran Series Limestone Gray with horizontal bedding. Fine grained with no chert encountered. Horizontal fractures @ –116.7', –117.0', –117.3', –117.9' & –118.3'.	288.8	2	100.0	40.0	n/a	n/a
RUN 3 (–119.0' to –121.5') Mississippian System, Valmeyeran Series Limestone Gray with horizontal bedding. Fine grained with no chert encountered. Horizontal fractures @ –119.7' & –120.1'. Horizontal fractures with thin clay partings @ –120.8', –121.0' & –121.1'.	286.3	3	100.0	86.0	n/a	999@ -119.8'
	–5					
	–10					

Color pictures of the cores Yes Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - SNB	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE - 06/04/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION OVER
NS, TRRA, MCT AND INDUSTRIAL DR.

SOIL BORING LOGS
4 OF 20

SCALE: | SHEET NO. S-95 OF S-111 | STA. 134+22.00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB	ST. CLAIR	285	205
SN 082-0318 (EB) & 0319 (WB)		CONTRACT NO. 76C44		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

..\B82B318-CONN-05-010-MS.DGN, ..\B82B318-CONN-05-010-MS.DGN, ..\B82B318-CONN-05-010-MS.DGN, ..\B82B318-CONN-09-001-SO.DGN
5/22/2010, 10:21:54 BONDMULD \\TS-0044-MN\VOL_1\D-TRANS.BT\22B2-2B59-B81\STRUCT\CAD\01 DESIGN\B82B318\SHEET\B82B318-CONN-05-004-SHT-MS.DGN