WB-10

Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurelius Court, Suite 204
Naperville, Illinois 60565
630-357-1930

SOIL BORING LOG

PAGE 4 of 4
DATE 48-102009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION XX
LOCATION I-70 Curved Approach Structure-Retaining Wall
COUNTY St. Clair
DRILLING METHOD Straight Flight Auger/Rotary
HAMMER TYPE CME Automatic

STRUCT. NO. XX
Station: 140+70 to 147+35
BORING NO. WB-10
Station: 145+75
Offset: 56.5' Left
Ground Surface Elev. 404.7

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

RECOVERY = 100.0%
R.Q.D. = 59.5%
283.7

RUN 2

End Of Boring @ -121.0'
Straight Flight Augers To -15.0'
Rotary Drilling To Completion
15.0' of 4.0"* Casing Used
CME Automatic Hammer

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
-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

WB-10 Run-1

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ROCK CORE LOG

PAGE 1 of 2
DATE 48-102009
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ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION XX
LOCATION I-70 Curved Approach Structures Retaining Wall
COUNTY St. Clair
CORING METHOD Rotary Wash
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 298.7
Begin Core Elev. 298.7

STRUCT. NO. XX
Station: 140+70 to 147+35
BORING NO. WB-10
Station: 145+75
Offset: 56.5' Left
Ground Surface Elev. 404.7

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
298.7	1	100.0	41.8	n/a	1177@ -106.3'
-111.0					
-116.0					

RUN 1 (-106.0' to -116.0')
Mississippian System, Valmeyeran Series Limestone

Light gray & fine grained with horizontal bedding becoming. Some chert replacement throughout. Numerous horizontal fractures with some thin clay partings.

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)

WB-10 Run-2

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ROCK CORE LOG

PAGE 2 of 2
DATE 48-102009
LOGGED BY DR
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ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION XX
LOCATION I-70 Curved Approach Structures Retaining Wall
COUNTY St. Clair
CORING METHOD Rotary Wash
CORING BARREL TYPE & SIZE NX Double Swivel-5 ft
Core Diameter 2.0 in
Top of Rock Elev. 298.7
Begin Core Elev. 298.7

STRUCT. NO. XX
Station: 140+70 to 147+35
BORING NO. WB-10
Station: 145+75
Offset: 56.5' Left
Ground Surface Elev. 404.7

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
288.7	2	100.0	59.5	n/a	1139@ -118.8'
-121.0					
-126.0					

RUN 2 (-116.0' to -121.0')
Mississippian System, Valmeyeran Series Limestone

Light gray & fine grained with horizontal bedding becoming. Numerous horizontal fractures throughout. ¼" clay partings @ -117.4', -117.6' & -118.2'.

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)

\\GSI2\318-CDN\05-011-HS.DGN, \\GSI2\318-CDN\05-011-HS.DGN, \\GSI2\318-CDN\05-011-HS.DGN, \\GSI2\318-CDN\99-001-RD.DGN
6/8/2010, 16:56:39 $DGNOLUD \\S-2014\ANYWALL\D-TRANS\07\2232\208689 001\STRUCT\CAD\01 DESIGN\082W234\SHEET\082W234-CDN-05-032-SHT-MS.DGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION RETAINING WALL	SOIL BORING LOGS 8 OF 11	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - TCG	REVISED -			998	82-2-1HVB	ST. CLAIR	285 / 232
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED -	REVISED -			SN 082-W234		CONTRACT NO. 76C44	
	PLOT DATE = $DATE$	DATE - 06/04/10	REVISED -		SCALE: NTS / SHEET NO. W-11 OF W-14 / STA. 140+57.64 TO STA. 147+35.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	