SB-109

SOIL BORING LOG

PAGE 4 of 4
DATE 5/11-12/2009
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-109
Station: 24+26
Offset: 37.5' Right
Ground Surface Elev. 415.9

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 (%)
Light gray & fine grained with horizontal bedding. Horizontal fractures @ -115.7', -116.4', -116.9', -117.2', -117.4' & -117.8'. ½" clay parting @ -118.2'. Horizontal fractures @ -119.3', -119.6', -120.0', -120.1', -120.2', -120.4', -120.7', -120.9', -121.4', -121.7', -122.0', -122.1', -122.2', -122.3', -122.4, -122.6', -123.3', -123.9', -124.2' & -125.0'. Recovery=100.0% R.Q.D.=64.8%	290.9	-125	RUN 1		
RUN 2 (-125.0' to -130.0') Mississippian System, Valmeyeran Series Limestone. Light gray & fine grained with horizontal bedding. Some chert replacement. Numerous horizontal fractures throughout. Recovery=100.0% R.Q.D.=35.0%	285.9	-130	RN 2		
End Of Boring @ -130.0' Hollow Stem Augers To -12.0' Rotary Drilling To Completion CME Automatic Hammer 12' Of 5"* Casing Used 3"* Casing Used		-135			
		-140			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	-145			
	-150			
	-155			
	-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-109 Run-1

ROCK CORE LOG

PAGE 1 of 2
DATE 5/11-12/2009
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 CORING METHOD Rotary Wash
STRUCT. NO. 082-W309 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station: --
Core Diameter 2.0 in
BORING NO. SB-109 Top of Rock Elev. 300.9
Station: 24+26 Begin Core Elev. 300.9
Offset: 37.5' Right
Ground Surface Elev. 415.9

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-115.0' to -125.0') Mississippian System, Valmeyeran Series Limestone. Light gray & fine grained with horizontal bedding. Horizontal fractures @ -115.7', -116.4', -116.9', -117.2', -117.4' & -117.8'. ½" clay parting @ -118.2'. Horizontal fractures @ -119.3', -119.6', -120.0', -120.1', -120.2', -120.4', -120.7', -120.9', -121.4', -121.7', -122.0', -122.1', -122.2', -122.3', -122.4, -122.6', -123.3', -123.9', -124.2' & -125.0'. Recovery=100.0% R.Q.D.=64.8%	300.9	-119	1	100.0	64.8	r/a	11119 -115.0'
		-125					

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-109 Run-2

ROCK CORE LOG

PAGE 2 of 2
DATE 5/11-12/2009
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 CORING METHOD Rotary Wash
STRUCT. NO. 082-W309 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station: --
Core Diameter 2.0 in
BORING NO. SB-109 Top of Rock Elev. 300.9
Station: 24+26 Begin Core Elev. 300.9
Offset: 37.5' Right
Ground Surface Elev. 415.9

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 2 (-125.0' to -130.0') Mississippian System, Valmeyeran Series Limestone. Light gray & fine grained with horizontal bedding. Some chert replacement. Numerous horizontal fractures throughout.	290.0	-130	2	100.0	35.0	n/a	12939 -125.0'
		-135					

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

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

SOIL BORING LOGS
8 OF 20

SCALE: SHEET NO. RA-13 OF RA-25 STA. 170+00.00 TO STA. 176+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	268
	SN 082-W308	CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

..\99999999-CONN-99-001-MS.DGN, ..\0820318 CONN-99-001-BG.DGN
5-11-2011, 9:59:46 NEWMANMD \\FS 0044\MYVAULT\D-TRANS.07\2202\20868 001\STRUCT\CAD\01 DESIGN\0820W308\SHEET\0820W308-CONN 10 008-SHT-MS.DGN