SB-106

SOIL BORING LOG

PAGE 4 of 4
DATE 5/15-19/2009
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-106
Station: 21+47
Offset: 34.0' Left
Ground Surface Elev. 415.8

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 396.8

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Recovery=97.2% R.Q.D.=86.9%			RUN 1		
	290.8	-125			
RUN 2 (-125.0' to -130.0') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -125.5', -126.1', -126.9', -127.4', -127.9', -128.2', -129.0', -129.1', -129.3', & -129.5'. Recovery=100.0% R.Q.D.=87.0			RUN 2		
	285.8	-130			
End Of Boring @ -130.0' Hollow Stem Augers To -20.0' Rotary Drilling To Completion CME Automatic Hammer 20' Of 4"* Casing Used					
		-135			
		-140			
		-145			
		-150			
		-155			
		-160			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) S"-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-106 Run-1

ROCK CORE LOG

PAGE 1 of 2
DATE 5/15-19/2009
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
Station: --
BORING NO. SB-106
Station: 21+47
Offset: 34.0' Left
Ground Surface Elev. 415.8

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 300.8
Begin Core Elev. 300.8

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 to gray & fine grained with horizontal bedding. Horizontal fractures @ -115.1', -115.4', -116.0', -117.3', -118.8', -119.3', -120.5', -121.9' & -122.5'. ¼" clay parting @ -113.0'. Horizontal fractures @ -113.3' & -134.6'. Recovery=97.2% R.Q.D.=86.9%	300.8		1	97.2	86.9	n/a	11950 -115.5'
		-120					
		-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-106 Run-2

ROCK CORE LOG

PAGE 2 of 2
DATE 5/15-19/2009
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
Station: --
BORING NO. SB-106
Station: 21+47
Offset: 34.0' Left
Ground Surface Elev. 415.8

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 300.8
Begin Core Elev. 300.8

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 to gray & fine grained with horizontal bedding. Horizontal fractures @ -125.5', -126.1', -126.9', -127.4', -127.9', -128.2', -129.0', -129.1', -129.3' & -129.5'.	290.8		2	100.0	87.0	n/a	6260 -125.5
		-130					
		-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)

\\999999999 CONN-99-001-MS.DGN \\B828318-CONN-99-001-BD.DGN
5/11/2011 4:55:27 NEWMANND \\FS-0844\AM\VAULT\D-TRANS.07\2202\20868-001\STRUCT\CADD\DESIGN\082W309\SHEET\082W309-CONN10002-SH1-MS.DGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION RETAINING WALL	SOIL BORING LOGS 2 OF 20	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - TCG	REVISED -			998	82-2-1HVB-1	ST. CLAIR	345 / 262
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED -	REVISED -			SN 082-W308		CONTRACT NO. 76D05	
	PLOT DATE = $DATE$	DATE - 05/13/11	REVISED -		SCALE: SHEET NO. RA-7 OF RA-25 STA. 170+00.00 TO STA. 176+50.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	