SB-117

SOIL BORING LOG

PAGE 4 of 4
DATE 6/4-8/2009
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. 082-0329
Station: --
BORING NO. SB-117
Station: 1678+67
Offset: 59.0' Left
Ground Surface Elev. 416.6

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 405.6
Upon Completion n/a
After 24 Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Light gray to gray with horizontal bedding. Fine grained with some chert replacement. throughout. Horizontal fractures @ -115.7, -115.8', -116.4', -116.7', -117.4', -118.6', -120.1', -121.2', -121.9', -122.0', -122.5' & -123.0'. Numerous horizontal fractures from -123.0' to -125.5'.			RUN 1						
Recovery=100.0% R.Q.D.=76.6%	291.1	-125				-145			
RUN 2 (-125.5' to -129.5') Mississippian System, Valmeyeran Series Limestone. Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Recovery=75.0% R.Q.D.=8.5%	287.1		RUN 2						
End Of Boring @ -129.5' Hollow Stem Augers To -20.0' Rotary Drilling To Completion CME Automatic Hammer 20' Of 4"* Casing Used		-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-117 Run-1

ROCK CORE LOG

PAGE 1 of 2
DATE 6/4-8/2009
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. 082-0329
Station: --
BORING NO. SB-117
Station: 1678+67
Offset: 59.0' Left
Ground Surface Elev. 416.6

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.6
Begin Core Elev. 301.1

Description	Elev.	DEPTH (ft)	CORE RUN (#)	REC. (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-115.5' to -125.5') Mississippian System, Valmeyeran Series Limestone. Light gray to gray with horizontal bedding. Fine grained with some chert replacement. throughout. Horizontal fractures @ -115.7, -115.8', -116.4', -116.7', -117.4', -118.6', -120.1', -121.2', -121.9', -122.0', -122.5' & -123.0'. Numerous horizontal fractures from -123.0' to -125.5'.	301.1		1	100.0	76.6	n/a	10460 @ -117.4'
		-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-117 Run-2

ROCK CORE LOG

PAGE 2 of 2
DATE 6/4-8/2009
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. 082-0329
Station: --
BORING NO. SB-117
Station: 1678+67
Offset: 59.0' Left
Ground Surface Elev. 416.6

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.6
Begin Core Elev. 301.1

Description	Elev.	DEPTH (ft)	CORE RUN (#)	REC. (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 2 (-125.5' to -129.5') Mississippian System, Valmeyeran Series Limestone. Light gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout.	291.1		2	75.0	8.5	n/a	10719 @ -127.5'
		-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 -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER TRRA & ST. CLAIR AVENUE	SOIL BORING LOGS 6 OF 18	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TCG	REVISED -			998	82-2-1HVB-1	ST. CLAIR	345	243
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -				SN 082-0329	CONTRACT NO. 76D05		
	PLOT DATE = $DATE$	DATE - 05/13/11	REVISED -		SCALE:	SHEET NO. SB-51 OF SB-63	STA. 1679+16.65 TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

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5-11-2011 9:58:04 NEWMAND \\FS-0844\HWVAULT_D-TRANS.07\2282\20868-001\STRUCT\CAD\01 DESIGN\082831\SHEET\082831-CONN-18-011-SHT-HS.DGN