SB-120A

SOIL BORING LOG

PAGE 4 of 4
DATE 9/24/2009
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 Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. --
Station: --
BORING NO. SB-120A
Station: 1683+52
Offset: 46.6' Left
Ground Surface Elev. 416.1

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 (%)
Mississippian System, Valmeyeran Series Limestone Light gray & fine grained with horizontal bedding. Horizontal fracture with 1/4" clay parting @ -119.5'. Horizontal fracture @ -119.7'. Horizontal fracture with 3/4" clay parting @ -120.6'. Horizontal fractures @ -122.0', -122.9', -123.1' & -124.3'. Recovery=100.0% R.Q.D.=88.0% *291.6*			RUN 2		
RUN 3 (-124.5' to -129.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -124.8', -128.1', -128.4' & -129.0'. Recovery=97.0% R.Q.D.=84.0% *286.6*	-125		RUN 3		
RUN 4 (-129.5' to -134.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray with horizontal bedding becoming darker gray @ -133.2'. Fine graired with some chert replacement. Numerous horizontal fractures throughout. 1/2" clay parting @ -133.2'. Recovery=100.0% R.Q.D.=70.0% *281.6*	-130		RUN 4		
RUN 5 (-134.5' to -139.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Slightly porous & fossiliferous. Horizontal fractures @ -135.4', -136.1', -136.6', -137.6', -138.2', -138.9' & -139.2'. Recovery=100.0% R.Q.D.=95.0% *276.6*	-135		RUN 5		
RUN 6 (-139.5' to -144.5')	-140		RUN 6		
Mississippian System, Valmeyeran Series Limestone Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Slightly porous & fossiliferous with some weathering. Horizontal fractures @ -141.0' & -141.3'. Highly fractured from-141.6' to -142.7'. Horizontal fractures @ -143.5' & -144.2'. Recovery=100.0% R.Q.D.=74.0% *271.6*			RUN 6		
RUN 7 (-144.5' to -149.5') Mississippian System, Valmeyeran Series Limestone Weathered & gray with horizontal bedding. Slightly porous & fossiliferous with some chert replacement. Fine grained with some chert replacement. Horizontal fractures @ -145.0', -145.1', -145.7', -146.4', -147.2', -148.0' & -148.3'. Large chert nodule from -148.3' to -148.7'. Recovery=89.5% R.Q.D.=77.0% *266.6*	-145		RUN 7		
End Of Boring @ -149.5' Hollow Stem Augers To -12.0' Rotary Drilling To Completion CME Automatic Hammer 12' Of 5"* Casing Used 115' Of 3"* Casing Used	-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-120A Run-1&2

ROCK CORE LOG

PAGE 1 of 4
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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. --
Station: --
BORING NO. SB-120A
Station: 1683+52
Offset: 46.6' Left
Ground Surface Elev. 416.1

CORING BARREL TYPE & SIZE NX Double Swivel-5 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.6
Begin Core Elev. 301.6

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-114.5' to -119.5') Mississippian System, Valmeyeran Series Limestone Light gray with horizontal bedding. Fine grained with horizontal fractures @ -114.6', -114.7', -115.0', -115.3', -115.7', -116.1', -116.3', -116.9', -117.6', -118.3', -118.9' & -119.3'.	301.6 -119.5		1	100.0	75.0	n/a	14069 -116.4'
RUN 2 (-119.5' to -124.5') Mississippian System, Valmeyeran Series Limestone Light gray & fine grained with horizontal bedding. Horizontal fracture with 1/4" clay parting @ -119.5'. Horizontal fracture @ -119.7'. Horizontal fracture with 3/4" clay parting @ -120.6'. Horizontal fractures @ -122.0', -122.9', -123.1' & -124.3'.	296.6 -124.5		2	100.0	88.0	n/a	10159 -119.7'

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-120A Run-3&4

ROCK CORE LOG

PAGE 2 of 4
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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. --
Station: --
BORING NO. SB-120A
Station: 1683+52
Offset: 46.6' Left
Ground Surface Elev. 416.1

CORING BARREL TYPE & SIZE NX Double Swivel-5 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.6
Begin Core Elev. 301.6

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 3 (-124.5' to -129.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -124.8', -128.1', -128.4' & -129.0'.	291.6 -129.5		3	97.0	84.0	n/a	13429 -124.9'
RUN 4 (-129.5' to -134.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray with horizontal bedding becoming darker gray @ -133.2'. Fine grained with some chert replacement. Numerous horizontal fractures throughout. 1/2" clay parting @ -133.2'.	286.6 -134.5		4	100.0	70.0	n/a	10979 129.5'

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)

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5-11-2011, 9:54:38 NEWMANMD \\FS-0044\AM\VAULT-D-TRANS 07\2202\20868-00\STRUCT\CAD\01 DESIGN\0820328\SHEET\0820328-CONN-10 012-SH1-MS.DGN

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER I-70

SOIL BORING LOGS
8 OF 21

SCALE: SHEET NO. SA-44 OF SA-57 STA. 1683+43.17 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	179
	SN 082-0328	CONTRACT NO. 76D05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		