SB-112

SOIL BORING LOG

PAGE 4 of 4
DATE 6/3-4/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I70/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-112
Station: 52+43
Offset: 51.5' Right
Ground Surface Elev. 416.7

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Recovery=97.5% R.Q.D.=87.3%			
	RUN 1		
291.7 −125			
RUN 2 (−125.0' to −130.0') Mississippian System, Valmeyeran Series Limestone Light to gray gray & fine grained with horizontal bedding. Horizontal fractures @ −126.7', −127.9', −128.5', −128.6', 128.7', 128.8', 129.0' & 129.6'. Recovery=100.0% R.Q.D.=91.0%	RUN 2		
286.7 −130			
End Of Boring @ −130.0' Hollow Stem Augers To −10.0' Rotary Drilling To Completion CME Automatic Hammer 10' 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) 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-112 Run-1

ROCK CORE LOG

PAGE 1 of 2
DATE 6/3-4/2009
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ROUTE I70/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-112 Top of Rock Elev. 302.2
Station: 52+43 Begin Core Elev. 301.7
Offset: 51.5' Right
Ground Surface Elev. 416.7

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 and some chert replacement. Horizontal fractures @ −115.7', −115.9', −116.3', −117.1', −117.4', −118.4, −118.6', −119.1', −119.8', −120.0', −120.4', −121.2', −121.6' & −122.1'. ¾" clay parting @ −122.5'. Horizontal fracture @ −123.4'.	1	97.5	87.3	r/c	10250 @ −115.0'
301.7					
−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-112 Run-2

ROCK CORE LOG

PAGE 2 of 2
DATE 6/3-4/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I70/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-112 Top of Rock Elev. 302.2
Station: 52+43 Begin Core Elev. 301.7
Offset: 51.5' Right
Ground Surface Elev. 416.7

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 to gray gray & fine grained with horizontal bedding. Horizontal fractures @ −126.7', −127.9', −128.5', −128.6', −128.7', −128.8', −129.0' & −129.6'.	2	100.0	91.0	n/a	10350 @ −125.4'
291.7					
−130					
−140					

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, 10:06:05 NEWMANND \\FS-0044\MAT\VAULT_D-TRANS_07\2202\20868 001\STRUCT\GRD\01 DESIGN\082W308\SHEET\082W308-CONN 10 014 SHT-MS.DGN

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION RETAINING WALL	SOIL BORING LOGS 14 OF 20	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TCG	REVISED -			998	82-2-1HVB-1	ST. CLAIR	345	274
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-19 OF RA-25 STA. 170+00.00 TO STA. 176+50.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		