SB-107

SOIL BORING LOG

PAGE 4 of 4
DATE 5/13-14/2009
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-107
Station: 22+69
Offset: 30.0' Left
Ground Surface Elev. 415.2

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=100.0% R.Q.D.=73.3%	RUN 1		
291.7			
RUN 2 (-123.5' to -129.5') Mississippian System, Valmeyeran Series Limestone	RUN 2		
-125			
Ligh: gray & fine grained with horizontal bedding. I lighly fractured to -124.2'. Numerous horizontal fractures throughout. Recovery=100.0% R.Q.D.=52.5%			
285.7			
End Of Boring @ -129.5' Hollow Stem Augers To -12.0' Rotary Drilling To Completion CME Automatic Hammer 12' Of 5"* Casing Used 1115' Of 3"* Casing Used			
-130			
-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-107 Run-1

ROCK CORE LOG

PAGE 1 of 2
DATE 5/13-14/2009
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-107
Station: 22+69
Offset: 30.0' Left
Ground Surface Elev. 415.2

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 302.2
Begin Core Elev. 301.7

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-113.5' to -123.5') Mississippian System,Valmeyeran Series Limestone 301.7 Light gray & fine grained with horizontal bedding. Horizontal fractures @ -113.7', -114.0', -114.2', -114.5', -114.7', -115.1', -115.6', -116.2', -116.9', -117.0', -117.4', -117.6', -118.0', -118.1' & -118.6'. 1/2" clay parting @ -119.1'. Horizontal fractures @ -119.4', -119.9', -120.7', -121.3', -122.0' & -122.6'. Transverse fracture @ -123.3'.	1	100.0	73.3	n/c	13079 -114.7
-118.5					
-123.5					

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)

SB-107 Run-2

ROCK CORE LOG

PAGE 2 of 2
DATE 5/13-14/2009
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-107
Station: 22+69
Offset: 30.0' Left
Ground Surface Elev. 415.2

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 302.2
Begin Core Elev. 301.7

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 2 (-123.5' to -129.5') Mississippian System,Valmeyeran Series Limestone 291.7 Light gray & fine grained with horizontal bedding. Highly fractured to -124.2'. Numerous horizontal fractures throughout.%	2	100.0	52.5	n/a	11420 -124.1
-128.5					
-133.5					

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, 9:59:34 NEWMAND \\FS-0844\MN\VAULT\D-TRANS. 07\2202\20868 001\STRUCT\CAD\01 DESIGN\082W308\SHEET\082W308-CONN-10-004 SHT MS.DGN