

SB-111

SOIL BORING LOG		PAGE 4 of 4
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08		DATE 4/30-5/5/2009
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3		LOGGED BY DR
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic		GSI JOB No. 08201
STRUCT. NO. 082-W309	Surface Water Elev. <u>n/a</u>	D E P T H (ft)
Station: --	Stream Bed Elev. <u>n/a</u>	
BORING NO. SB-111	Groundwater Elevation:	B L O W S (1/6")
Station: 51+48	First Encounter <u>n/a</u>	
Offset: 51.5' Right	Upon Completion <u>n/a</u>	U C S (tsf)
Ground Surface Elev. <u>416.9</u>	After 24 Hrs. <u>n/a</u>	
		M O I S T (%)
-123.1', -123.7', -124.0', -124.3' & -124.4'		
Recovery=100.0% R.Q.D.=82.5%	RUN 1	
291.9-125		
RUN 2 (-125.0' to -127.0') Mississippian System, Valmeyeran Series Limestone Recovery=75.0% R.Q.D.=50.0%	RUN 2	
289.9		
End Of Boring @ -127.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10' Of 4" Casing Used 3" Casing Used		
-130		
-135		
-140		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (E-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 (ASTM D 1586) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

SB-111 Run-1

ROCK CORE LOG		PAGE 1 of 2				
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08		DATE 4/30-5/5/2009				
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3		LOGGED BY DR				
COUNTY St. Clair CORING METHOD Rotary Wash		GSI JOB No. 08201				
STRUCT. NO. 082-W309	CORING BARREL TYPE & SIZE <u>NX Double Swivel-10 ft</u>	D E P T H (ft)				
Station: --	Core Diameter <u>2.0 in</u>					
BORING NO. SB-111	Top of Rock Elev. <u>301.9</u>	C O R E R E T I M E (min)				
Station: 51+48	Begin Core Elev. <u>301.9</u>					
Offset: 51.5' Right		R E C O V E R Y (%)				
Ground Surface Elev. <u>416.9</u>						
		R . Q . D . (%)				
		S T R E N G T H (tsf)				
RUN 1 (-115.0' to -125.0') Mississippian System, Valmeyeran Series Limestone	301.9	1	100.0	82.5	n/a	12170 -116.2
Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Soft & argillaceous from -121.9' to -122.1'. Horizontal fractures @ -115.9', -116.9', -117.2', -118.5', -118.7', -119.5', -120.5', -121.0', -121.5', -121.9', -122.1', -122.9', -123.1', -123.7', -124.0', -124.3' & -124.4'.						
	-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-111 Run-2

ROCK CORE LOG		PAGE 2 of 2				
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08		DATE 4/30-5/5/2009				
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3		LOGGED BY DR				
COUNTY St. Clair CORING METHOD Rotary Wash		GSI JOB No. 08201				
STRUCT. NO. 082-W309	CORING BARREL TYPE & SIZE <u>NX Double Swivel-10 ft</u>	D E P T H (ft)				
Station: --	Core Diameter <u>2.0 in</u>					
BORING NO. SB-111	Top of Rock Elev. <u>301.9</u>	C O R E R E T I M E (min)				
Station: 51+48	Begin Core Elev. <u>301.9</u>					
Offset: 51.5' Right		R E C O V E R Y (%)				
Ground Surface Elev. <u>416.9</u>						
		R . Q . D . (%)				
		S T R E N G T H (tsf)				
RUN 2 (-125.0' to -127.0') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -125.4', -126.2', -126.4' & -126.6'.	291.9	2	75.0	50.0	n/a	10280 -125.1
	-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)

N:\999999\CONN-99-001\MS.DGN, N:\999999\CONN-99-001\01.DGN, N:\999999\CONN-99-001\02.DGN, N:\999999\CONN-99-001\03.DGN, N:\999999\CONN-99-001\04.DGN, N:\999999\CONN-99-001\05.DGN, N:\999999\CONN-99-001\06.DGN, N:\999999\CONN-99-001\07.DGN, N:\999999\CONN-99-001\08.DGN, N:\999999\CONN-99-001\09.DGN, N:\999999\CONN-99-001\10.DGN, N:\999999\CONN-99-001\11.DGN, N:\999999\CONN-99-001\12.DGN, N:\999999\CONN-99-001\13.DGN, N:\999999\CONN-99-001\14.DGN, N:\999999\CONN-99-001\15.DGN, N:\999999\CONN-99-001\16.DGN, N:\999999\CONN-99-001\17.DGN, N:\999999\CONN-99-001\18.DGN, N:\999999\CONN-99-001\19.DGN, N:\999999\CONN-99-001\20.DGN, N:\999999\CONN-99-001\21.DGN, N:\999999\CONN-99-001\22.DGN, N:\999999\CONN-99-001\23.DGN, N:\999999\CONN-99-001\24.DGN, N:\999999\CONN-99-001\25.DGN, N:\999999\CONN-99-001\26.DGN, N:\999999\CONN-99-001\27.DGN, N:\999999\CONN-99-001\28.DGN, N:\999999\CONN-99-001\29.DGN, N:\999999\CONN-99-001\30.DGN, N:\999999\CONN-99-001\31.DGN, N:\999999\CONN-99-001\32.DGN, N:\999999\CONN-99-001\33.DGN, N:\999999\CONN-99-001\34.DGN, N:\999999\CONN-99-001\35.DGN, N:\999999\CONN-99-001\36.DGN, N:\999999\CONN-99-001\37.DGN, N:\999999\CONN-99-001\38.DGN, N:\999999\CONN-99-001\39.DGN, N:\999999\CONN-99-001\40.DGN, N:\999999\CONN-99-001\41.DGN, N:\999999\CONN-99-001\42.DGN, N:\999999\CONN-99-001\43.DGN, N:\999999\CONN-99-001\44.DGN, N:\999999\CONN-99-001\45.DGN, N:\999999\CONN-99-001\46.DGN, N:\999999\CONN-99-001\47.DGN, N:\999999\CONN-99-001\48.DGN, N:\999999\CONN-99-001\49.DGN, N:\999999\CONN-99-001\50.DGN, N:\999999\CONN-99-001\51.DGN, N:\999999\CONN-99-001\52.DGN, N:\999999\CONN-99-001\53.DGN, N:\999999\CONN-99-001\54.DGN, N:\999999\CONN-99-001\55.DGN, N:\999999\CONN-99-001\56.DGN, N:\999999\CONN-99-001\57.DGN, N:\999999\CONN-99-001\58.DGN, N:\999999\CONN-99-001\59.DGN, N:\999999\CONN-99-001\60.DGN, N:\999999\CONN-99-001\61.DGN, N:\999999\CONN-99-001\62.DGN, N:\999999\CONN-99-001\63.DGN, N:\999999\CONN-99-001\64.DGN, N:\999999\CONN-99-001\65.DGN, N:\999999\CONN-99-001\66.DGN, N:\999999\CONN-99-001\67.DGN, N:\999999\CONN-99-001\68.DGN, N:\999999\CONN-99-001\69.DGN, N:\999999\CONN-99-001\70.DGN, N:\999999\CONN-99-001\71.DGN, N:\999999\CONN-99-001\72.DGN, N:\999999\CONN-99-001\73.DGN, N:\999999\CONN-99-001\74.DGN, N:\999999\CONN-99-001\75.DGN, N:\999999\CONN-99-001\76.DGN, N:\999999\CONN-99-001\77.DGN, N:\999999\CONN-99-001\78.DGN, N:\999999\CONN-99-001\79.DGN, N:\999999\CONN-99-001\80.DGN, N:\999999\CONN-99-001\81.DGN, N:\999999\CONN-99-001\82.DGN, N:\999999\CONN-99-001\83.DGN, N:\999999\CONN-99-001\84.DGN, N:\999999\CONN-99-001\85.DGN, N:\999999\CONN-99-001\86.DGN, N:\999999\CONN-99-001\87.DGN, N:\999999\CONN-99-001\88.DGN, N:\999999\CONN-99-001\89.DGN, N:\999999\CONN-99-001\90.DGN, N:\999999\CONN-99-001\91.DGN, N:\999999\CONN-99-001\92.DGN, N:\999999\CONN-99-001\93.DGN, N:\999999\CONN-99-001\94.DGN, N:\999999\CONN-99-001\95.DGN, N:\999999\CONN-99-001\96.DGN, N:\999999\CONN-99-001\97.DGN, N:\999999\CONN-99-001\98.DGN, N:\999999\CONN-99-001\99.DGN, N:\999999\CONN-99-001\100.DGN