

SB-104

SB-104 Run-1

SB-104 Run-2

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 5/9-10/2009			
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. <i>n/a</i>			
Station: --				Stream Bed Elev. <i>n/a</i>			
BORING NO. SB-104				Groundwater Elevation:			
Station: 19+63				First Encounter <i>n/a</i>			
Offset: 7.0' Right				Upon Completion <i>n/a</i>			
Ground Surface Elev. 419.7				After 24 Hrs. 405.7			
DEPTH (ft)	BLOWS Qu (/6")	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLOWS Qu (/6")	UCS (tsf)	MOIST (%)
<p>4" clay partings @ -123.6' & -123.9'. Horizontal fractures @ -124.2'. Recovery=98.0% R.Q.D.= 67.0%</p> <p>294.7-125</p> <p>RUN 1</p>							
<p>RUN 2 (-125.0' to -130.0') Mississippi System, Volmeyeran Series Limestone</p> <p>Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -125.1', -125.3', -125.4', -126.0', -126.8', -127.7', -128.6' & -128.9'. Recovery=100.0% R.Q.D.=64.0%</p> <p>289.7-130</p> <p>RUN 2</p>							
<p>End Of Boring @ -130.0'</p> <p>Hollow Stem Augers To -20.0'</p> <p>Rotary Drilling To Completion</p> <p>CME Automatic Hammer</p> <p>20' Of 4" Casing Used</p>							

ROCK CORE LOG				PAGE 1 of 2			
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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 NX Double Swivel-10 ft			
Station: --				Core Diameter 2.0 in			
BORING NO. SB-104				Top of Rock Elev. 305.7			
Station: 19+63				Begin Core Elev. 304.7			
Offset: 7.0' Right				Ground Surface Elev. 419.7			
DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min)	STRENGTH (tsf)		
<p>RUN 1 (-115.0' to -125.0') Mississippi System, Volmeyeran Series Limestone</p> <p>304.7</p> <p>Light gray mottled gray & fine grained with horizontal bedding. Vertical fracture with intersecting horizontal fractures from -115.3' to -116.0'. Horizontal fractures @ -117.3', -117.8', -118.8', -119.1', -119.4', -119.5', -119.8', -120.4', -120.7', -121.2', -121.6', -122.2', -122.5' & -123.0'. 4" clay partings @ -123.6' & -123.9'. Horizontal fractures @ -124.2'. Recovery=98.0% R.Q.D.= 67.0%</p> <p>120</p> <p>125</p>							

ROCK CORE LOG				PAGE 2 of 2			
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Station: --				Core Diameter 2.0 in			
BORING NO. SB-104				Top of Rock Elev. 305.7			
Station: 19+63				Begin Core Elev. 304.7			
Offset: 7.0' Right				Ground Surface Elev. 419.7			
DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min)	STRENGTH (tsf)		
<p>RUN 2 (-125.0' to -130.0') Mississippi System, Volmeyeran Series Limestone</p> <p>294.7</p> <p>Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -125.1', -125.3', -125.4', -126.0', -126.8', -127.7', -128.6' & -128.9'. Recovery=100.0% R.Q.D.=64.0%</p> <p>130</p> <p>135</p>							

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

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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 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

I:\projects\CON-99-021-MS.DGN \820318-CON-99-021-MS.DGN \SHEET\LOAD\01\DESIGN\820318\0820318-CON-1B-084-SHT-MS.DGN
 I:\projects\CON-99-021-MS.DGN \820318-CON-99-021-MS.DGN \SHEET\LOAD\01\DESIGN\820318\0820318-CON-1B-084-SHT-MS.DGN
 I:\projects\CON-99-021-MS.DGN \820318-CON-99-021-MS.DGN \SHEET\LOAD\01\DESIGN\820318\0820318-CON-1B-084-SHT-MS.DGN