

SB-04 Run-2

SB-05

SB-05

ROCK CORE LOG

Geotek Inc. PAGE 2 of 2 DATE 3-2-2009 LOGGED BY DR GSI JOB No. 08201

ROUTE I-70 DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08 SECTION 82-2-IHVB LOCATION I-70 Curved Approach Structures COUNTY St. Clair CORING METHOD Rotary Wash

STRUCT. NO. S.N. 082-0318 CORING BARREL TYPE & SIZE NX Double Swivel-5 ft Station: 127+00 to 140+74 Core Diameter 2.0 in

BORING NO. SB-04 Top of Rock Elev. 301.2 Station: 132+64 Begin Core Elev. 299.7 Offset: 43.0' Right Ground Surface Elev. 403.7

DEPTH (ft)	DIAMETER (#)	UNIT WEIGHT (pcf)	MOISTURE (%)	ROCK QTY (%)	REMARKS (min)	TEST TYPE (tsf)
289.7	2	100.0	59.0	n/a	n/a	100%

MISSISSIPPIAN SYSTEM, VALMEYERAN SERIES LIMESTONE RUN 2 (-114.0' to -119.0')

Light gray & fine grained with horizontal bedding becoming gray & sandy @ -114.5'. Some tight vertical fractures & chert replacement throughout. Horizontal fractures @ -114.1', -114.5', -115.0', -115.2', -115.7', -116.3', -116.9', -117.1', -117.5', -117.6', -118.1', -118.3' & -118.8'.

SOIL BORING LOG

Geotek Inc. PAGE 1 of 4 DATE 3-30-2009 LOGGED BY DR GSI JOB No. 08201

ROUTE I-70 DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08 SECTION 82-2-IHVB LOCATION I-70 Curved Approach Structures COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. S.N. 082-0318 Station: 127+00 to 140+74

BORING NO. SB-05 Station: 135+64 Offset: 43.0' Left Ground Surface Elev. 403.8

DEPTH (ft)	DIAMETER (#)	UNIT WEIGHT (pcf)	MOISTURE (%)	ROCK QTY (%)	REMARKS (min)	TEST TYPE (tsf)
402.8	AS	NP	32			
400.8	2	NP	50		SAND-brown-medium dense (A-3)	
375.8	2	NP	28		LOAM-brown-loose (A-4)	
375.3	2	NP	28		SAND-brown-medium dense (A-3)	
370.8	3	NP	22		SAND-brown-medium dense (A-3)	
320.8	15	NP	29		SAND-dark gray to gray-medium dense to dense (A-3)	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shallow 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

SOIL BORING LOG

Geotek Inc. PAGE 2 of 4 DATE 3-30-2009 LOGGED BY DR GSI JOB No. 08201

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STRUCT. NO. S.N. 082-0318 Station: 127+00 to 140+74

BORING NO. SB-05 Station: 135+64 Offset: 43.0' Left Ground Surface Elev. 403.8

DEPTH (ft)	DIAMETER (#)	UNIT WEIGHT (pcf)	MOISTURE (%)	ROCK QTY (%)	REMARKS (min)	TEST TYPE (tsf)
343.3	8				SAND-medium dense to dense (A-3)	
338.3	8	NP	15		SAND with Gravel-brown & gray-loose to medium dense (A-1-b)	
338.3	7				SAND-medium dense to dense (A-3)	
338.3	7				SAND-medium dense to dense (A-3)	
338.3	7				SAND-medium dense to dense (A-3)	
328.3	9				SAND-brown & gray-medium dense to very dense (A-3)	
328.3	12	NP	22		SAND-brown & gray-medium dense to very dense (A-3)	
328.3	11				SAND-brown & gray-medium dense to very dense (A-3)	
328.3	14	NP	20		SAND with Gravel-brown & gray-medium dense (A-1-b)	

Trace organics from -46.0' to -47.5'.

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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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I:\Projects\2009\03-18\0820318\0820318-CONNECTION-05-010-MS.DGN -- 0820318-CONNECTION-05-010-MS.DGN -- 0820318-CONNECTION-05-010-MS.DGN -- 0820318-CONNECTION-05-010-MS.DGN -- 0820318-CONNECTION-05-010-MS.DGN -- 0820318-CONNECTION-05-010-MS.DGN -- 0820318-CONNECTION-05-010-MS.DGN

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION OVER NS, TRRA, MCT AND INDUSTRIAL DR.</p>	<p>SOIL BORING LOGS 8 OF 20</p>	F.A.P. RTE. 998	SECTION 82-2-IHVB	COUNTY ST. CLAIR	TOTAL SHEETS 285	SHEET NO. 209	
PLOT SCALE = #SCALE#	CHECKED -	REVISED -	SCALE:			SHEET NO. S-99 OF S-111	STA. 134+22.00 TO STA.	SN 082-0318 (EB) & 0319 (WB)	CONTRACT NO. 76C44		
PLOT DATE = #DATE#	DATE - 06/04/10	REVISED -						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		