LEGEND - IDOT TEST BORING LOGS

Silty Clay Loam — Textural classification of soil in accordance with IDOT Triangular Chart.

BLOWS/150mm — Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.

Q_u, kPa — Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard specification.

Moist, % — Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock.

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 2
Date 8/1/03

ROUTE FAI-74 DESCRIPTION Ramp K-2 & J-3 LOGGED BY DPS
SECTION 72-6,7,8,9-1,90-11,99-12,13,14 LOCATION ,SEC., TWP., RNG.
COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.
Station
BORING NO. K2MJ3-4
Station 10+564
Offset 16.00m Rt. CL
Ground Surface Elev. 143.50 m

Surface Water Elev. m
Stream Bed Elev. m
Groundwater Elev.:
First Encounter none m
Upon Completion none m
After 24 Hrs. not taken m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
no sample taken 0-.45m					
	143.04				
Gray SHALEY CLAY			6		
			9		13.0
			7		
			17		
		-1.5	34		10.6
			60		
			5		
			17		14.8
			30		
			11		
		-3.0	17		13.6
			23		
			11		
			33		9.3
			49		
	139.23				
Light Gray SHALE	139.06		100@2"		
Borehole continued with rock coring.		-4.5			
		-6.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT

ROCK CORE LOG

Page 2 of 2
Date 8/1/03

ROUTE FAI-74 DESCRIPTION Ramp K-2 & J-3 LOGGED BY DPS
SECTION 72-6, 7, 8, 9-1, 90-11, 99-12, 13, 14 LOCATION ,SEC., TWP., RNG.
COUNTY Peoria & Tazewell CORING METHOD Double Barrel

STRUCT. NO.
Station
BORING NO. K2MJ3-4
Station 10+564
Offset 16.00m Rt. CL
Ground Surface Elev. 143.50 m

CORING BARREL TYPE & SIZE NWD4
Core Diameter 52 mm
Top of Rock Elev. 139.23 m
Begin Core Elev. 139.06 m

Description	Elev.	DEPTH (m)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/0.3m)	STRENGTH (kPa)
Gray SHALE	139.06	-4.5	1	98	72		1091
				6.8%	moisture @ 4.42m		1822
				7.8%	moisture @ 4.60m		
				6.7%	moisture		1568
				8.8%	moisture		700
				8.3%	moisture		1826
		-6.0	2	99	86		
				7.1%	moisture		2272
				7.0%	moisture		4498
				7.1%	moisture		763
				7.0%	moisture		1205
				6.9%	moisture		7917
.06m seam of Gray sandstone @ 7.28m							4270
		-7.5	3	100	100		
				8.3%	moisture		1846
				9.0%	moisture		2021
				8.0%	moisture		3424
				7.7%	moisture		4885
				81%	moisture		4950
				8.2%	moisture		4314
				7.8%	moisture		3296
		-9.0	4	6.8%	moisture		6366
.03m seam of Gray sandstone @ 9.0m							
	134.67			7.1%	moisture		5896
Gray SANDSTONE	133.90			6.2%	moisture		2628
End of Boring							

Color pictures of the cores No
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

DESIGNED	WJZ
CHECKED	SWS
DRAWN	RMG
CHECKED	DJM

alfred benesch & company
CONSULTING ENGINEERS
205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3573

ILLINOIS DEPARTMENT OF TRANSPORTATION
RAMP K-2 OVER
MAIN ST & RAMP J-3
F.A.I. ROUTE 74 (I-74)
SECTION 90-11HB-5

SOIL BORING & ROCK CORE LOGS
K2MJ3-4

SN: 090-0156
TAZEWELL CO., IL.

STA. 10+529.222
DATE: 12-23-04

2/3/2005

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