STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 10/30/08

ROUTE FAS 1707 (US 40) DESCRIPTION Mill Creek LOGGED BY E. Sandschafer

SECTION BX-B LOCATION SW, SEC. 6, TWP. 10 N, RNG. 14 W, 3 PM

COUNTY Clark DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 012-0020
Station 3185+79.61

BORING NO. 2008-1 East Pier
Station 3186+20
Offset 4.50ft Rt
Ground Surface Elev. 550.14 ft

Surface Water Elev. 520.33 ft
Stream Bed Elev. 519.63 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Wash Bore ft
After 144 Hrs. 520.4 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
1" asphalt on 6 1/2" concrete bridge deck.	550.14 ~~549.54~~				
Air		-5			
		-10			
		-15			
		-20			
Air *(continued)*	529.14				
Slopewall.	528.64				
Medium, damp, brown, SANDY LOAM.		-25	7 26 50/5"		
SANDY LOAM w/ Sandstone fragments.	524.44	-30			
SANDSTONE.	517.64				
Borehole continued with rock coring.	515.64	-35			
		-40			

Latitude W 87 deg 46.358 min. Longitude N 39 deg 22.008 min. Map Datum WGS 84

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 T206)

BBS, from 137 (Rev. 8-99)

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ROCK CORE LOG

Page 2 of 2

Date 10/30/08

ROUTE FAS 1707 (US 40) DESCRIPTION Mill Creek LOGGED BY E. Sandschafer

SECTION BX-B LOCATION SW, SEC. 6, TWP. 10 N, RNG. 14 W, 3 PM

COUNTY Clark CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 012-0020
Station 3185+79.61

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner

Core Diameter 2.06 in
Top of Rock Elev. 517.64 ft
Begin Core Elev. 515.64 ft

BORING NO. 2008-1 East Pier
Station 3186+20
Offset 4.50ft Rt
Ground Surface Elev. 550.14 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray w/ thin black layers, SANDSTONE. *Rock core C1 at 34.5' to 35.1' depth Qu = 474 tsf.*	515.64	-30	2008-1	197	69	0.8	
SANDSTONE and SANDY CLAY SHALE layers.	513.84						
Thin, GRAVEL lense.	513.34						
Gray, slightly weathered, SANDY CLAY SHALE.		-40	2008-1	299	77	1	
Rock core C2 at 43.1' to 43.7' depth Qu = 25.8 tsf.							
Gray, moderately weathered, SANDY CLAY SHALE.	505.64	-45	2008-1	391	53	1.5	
Hard, dark gray, SANDY CLAY SHALE. *Rock core C3 from 47.6' to 48.1' depth Qu = 48.1 tsf.*	502.54						
Extent of exploration.	500.64	-50					

Benchmark: USGS brass tablet "J 211 1959" set in SE wingwall of existing structure over Mill Creek = 555.36' elevation. Provided by Program Development.

Color pictures of the cores Available on request
Cores will be stored for examination until 10/30/09
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	SCD

ie consultants

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SOIL BORINGS
STRUCTURE NO. 012-0073

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 OF 29 SHEETS	1707	(BX-B)B-1	CLARK	44	38
			CONTRACT NO. 74169		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		