ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 253 (IL 251)	68 BR-1	MARSHALL	97	85
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 14
15 SHEETS

Contract #68573

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc

SOIL BORING LOG

Page 1 of 1

Date 12/02/02

ROUTE FAS 253 (IL 251) DESCRIPTION ILLINOIS 251 OVER SANDY CREEK NORTH OF WENONA LOGGED BY LM-IDOT

SECTION (68) BR-1 LOCATION NW 1/4, 3rd PM, SEC. 12, TWP. 30N, RNG. 1E, 629th PM

COUNTY Marshall DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 062-0002 Existing
Station 133+80

BORING NO. B-2 SOUTH ABUT
Station 133+39
Offset 44 ft RT
Ground Surface Elev. 634.1 ft

Surface Water Elev. 629.1 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 629.1 ft ▼
Upon Completion 624.6 ft ▽
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered, black, Silty Clay Loam	631.6				
Stiff, brown & gray, Silty Clay Loam	631.1		2 2 12	1.7B	27 9
Loose, brown, Silty Loam with Sand, Gravel & gray, weathered, Shale (fill)	628.6	▼-5	4 5 8	>4.5 P	18 17
Hard, red, weathered, Shale		▽-10	3 6 8		15
			4 8 10	>4.5 P	12
		-15	7 16 20		11
Hard, gray, Shale	618.6		8 15 22	>4.5 P	14 13
Dense, gray, Limestone	616.6 / 616.1		120/4		4
End of boring. Boring continued with rock coring on 9/13/07 - See Rock Core Log.		-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc

ROCK CORE LOG

Page 1 of 1

Date 09/13/07

ROUTE FAS 253 (IL 251) DESCRIPTION ILLINOIS 251 OVER SANDY CREEK NORTH OF WENONA LOGGED BY B. Ratajczyk

SECTION (68) BR-1 LOCATION NW 1/4, 3rd PM, SEC. 12, TWP. 30N, RNG. 1E

COUNTY Marshall CORING METHOD Rotary, surface set diamond bit

STRUCT. NO. 062-0002 Existing
Station 133+80

CORING BARREL TYPE & SIZE NW conv dbl bbl split inner
Core Diameter 2.1 in
Top of Rock Elev. 616.1 ft
Begin Core Elev. 615.6 ft

BORING NO. B-2A SOUTH ABUT
Station 133+43
Offset 44 ft RT
Ground Surface Elev. 633.6 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SHALE: Gray, calcareous (Core Run 1 - RMR Rating 29: IV - Poor Rock)	613.8		1	80	73	16	
CLAYEY SHALE: Gray, calcareous (RMR Rating: IV - Poor Rock)	611.3	-20					1.8
COAL (RMR Rating: IV - Poor Rock)	610.7						
CLAYEY SHALE: Gray, calcareous (Core Run 2 - RMR Rating 29: IV - Poor Rock)	609.6		2	88	45	20	
SHALE: Gray, calcareous (RMR Rating: IV - Poor Rock)		-25					
Approximate 6 inch clayey shale deposit from approximately 24.5 to 25 feet. Moisture content tests performed on samples obtained from the following depths: 19.5 feet - 12 percent; Dry Density - 128 pcf; 21 feet - 11 percent; 23 feet - 10 percent; 24.8 feet - 7 percent; 26.9 feet - 3 percent; 28.4 feet - 9 percent; Dry Density 136 pcf; 30.8 feet - 18 percent; 32.6 feet - 7 percent			3	93	58	19	37.8
Shear plane observed in core at approximately 29 feet.	604.1						
CLAYEY SHALE: Gray, calcareous (Core Run 3 - RMR Rating 34: IV - Poor Rock)	603.1	-30					
SHALE: Gray, calcareous (RMR Rating: IV - Poor Rock)	600.8						
CLAYEY SHALE: Gray, calcareous (RMR Rating: IV - Poor Rock)	600.6						
Shale bedding appears horizontal. SPT sample obtained at 14.5 to 16 feet. Blow counts - 11, 23, 26. Brown, weathered clayey shale. SPT sample obtained at 17.5 to 19 feet. Blow counts - 50/4", 41/2", 8/1". Gray, clayey shale. Boring terminated at 33.0 ft.		-35					

Color pictures of the cores Yes
Cores will be stored for examination until Completion of Const.
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

STRUCTURE DESIGNS, INCORPORATED
ARCHITECTS & ENGINEERS
PH: (773) 638-1780 • www.structuredesignsinc.com

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS
ILL. RTE. 251
OVER SANDY CREEK
F.A.S. 253 SEC. 68 BR-1
MARSHALL COUNTY
STA. 133+80.00 S.N. 062-0085

DESIGNED BY: S.G. DRAWN BY: T.C.S.
DATE: 11-20-08 CHECKED BY: O.A.O.

...\DWG\Bridge\Boring Logs.dgn 11/19/2008 6:08:05 PM