ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 253 (IL 251)	68 BR-1	MARSHALL	97	86
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 15
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-1 NORTH ABUT
Station 134+20
Offset 40 ft RT
Ground Surface Elev. 634.8 ft

Surface Water Elev. 629.1 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered, Clay Loam, Gravel, Rip Rap, red weathered Shale (fill)					
			7		
			4	No	–
			5	Recovery	
	630.3				
Medium, brown & gray, Clay Loam (fill) Large Limestone cobble @ 6.5'		-5			
			3		
			2	0.9	30
			14	B	
	626.8		4		
Very stiff, red brown, weathered, Shale			6	1.0	29
			10	P	17
		-10			
			7		
			10	3.0	15
			14	P	
			7		
			12		11
			15		
		-15			
			12		
			16		12
			19		
			19		
			29		12
			40		
	615.3				
		-20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, gray, calcareous, Shale Thin, Coal layers @ 24' (continued)			13		
			19	>4.5	13
			48	P	
			61		
			81		10
			64		
		-25			
			16		
			66		11
			88		
			56		
	606.3		90		10
Dense, gray Limestone	605.8		100/4"		7
End of boring. Boring continued with rock coring on 9/12/07 – See Rock Core Log.		-30			
		-35			
		-40			

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 09/12/07

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. 610.8 ft
Begin Core Elev. 610.3 ft

BORING NO. B-1A NORTH ABUT
Station 134+23
Offset 38 ft RT
Ground Surface Elev. 634.8 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
CLAYEY SHALE: Gray, calcareous (Core Run 1 – RMR Rating 21: IV – Poor Rock)		-25	1	56	0	25	
	608.3						
SHALE: Gray, calcareous (Core Run 2 – RMR Rating 26: IV – Poor Rock)			2	98	41	27	
Moisture content tests performed on samples obtained from the following depths: 25.5 feet – 10 percent; 27.4 feet – 10 percent; 29 feet – 10 percent; Dry Density – 135 pcf; 31.5 feet – 11 percent; Dry Density – 130 pcf							
35.1 feet – 11 percent		-30	3	91	35	16	
37.2 feet – 12 percent; 38.5 feet – 11 percent; Dry Density – 135 pcf (Core Run 3 – RMR Rating 29: IV – Poor Rock)							
Shear planes observed in core at the following depths: 32.7 feet; 33 feet; 33.5 feet; 36 feet; 37 feet; 37.7 feet							25.4
Becomes light gray at 34 feet. (Core Run 4 – RMR Rating 29: IV – Poor Rock)		-35	4	90	28	21	
Becomes brown at approximately 36 feet. Deposits of clayey shale (zones of weathering) intermittent in core.							
Becomes gray at 37 feet.							
Becomes brown at 37.8 feet.							33.8
	595.3	-40					
Shale bedding appears horizontal. SPT sampled obtained at 23.5 to 25 feet. Blow counts – 16, 100/5". Approximately 3 inches of coal observed in the bottom of the SPT sample. Boring terminated at 39.5 ft.							

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)

REVISIONS	
NAME	DATE

STRUCTURE DESIGNS, INCORPORATED
ARCHITECTS & ENGINEERS
PH: (773) 838-1780 • www.structuredesignsinc.com

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.