

Illinois Department of Transportation
Division of Highways
1907

SOIL BORING LOG

Page 1 of 2
Date 4/17/09

ROUTE FAP 745 DESCRIPTION IL 104 over Brower Creek LOGGED BY M. Tappan

SECTION 108 BR LOCATION NE 1/4, SEC. 15, TWP. 3S, RNG. 4W, 4 PM

COUNTY Pike DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. <u>075-0511</u> Station <u>1721+25</u>	D E P T H	B L S	U C S	M O I S T	Surface Water Elev. <u>607.2</u> ft Stream Bed Elev. <u>605.2</u> ft Groundwater Elev.: First Encounter <u>No Encounter</u> ft Upon Completion <u>Cored</u> ft After <u> </u> Hrs. <u>Plugged</u> ft
BORING NO. <u>B-WA</u> Station <u>1720+28</u> Offset <u>14.0ft Lt</u> Ground Surface Elev. <u>619.6</u> ft	(ft)	/6"	(tsf)	(%)	

Aggregate Fill Poor Recovery					
	3				
	1				
616.60	2				
Brown to Black Moist SILTY CLAY LOAM (Fill)	1				
	-5	1	0.6	32	
	2	B			
613.10					
Brown and Gray Moist SILTY CLAY	1				
	2	0.7	22		
	2	B			
	0				
Gray V. Moist SILTY CLAY w/ Gray Fine Sand Seams	-10	0	0.3	23	
	0	WOH	B		
608.10					
Dk Gray Argillaceous LIMESTONE Auger refusal at 12.5 begin rock core	17				
	607.10	100/1"			
Borehole continued with rock coring.	-15				
	-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced by Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Sealing
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)

File Name: S:\SOILS\GINT FILES\075 PHES\075-0511 IL 104 OVER BROWER CREEK.GPJ Data Template: BSTEMPL1.GDT Date Printed: 1/21/14
Latitude: 39.46458N Longitude: 90.5311W Datum: NAD83 Job Number: 72861

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ROCK CORE LOG

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ROUTE FAP 745 DESCRIPTION IL 104 over Brower Creek LOGGED BY M. Tappan

SECTION 108 BR LOCATION NE 1/4, SEC. 15, TWP. 3S, RNG. 4W, 4 PM

COUNTY Pike CORING METHOD Water

STRUCT. NO. <u>075-0511</u> Station <u>1721+25</u>	D E P T H	C O R E	R E C O V E R Y	R Q D	C O R E T I M E	S T R E N G T H	CORING BARREL TYPE & SIZE <u>NQ2WL</u> Core Diameter <u>2</u> in Top of Rock Elev. <u>608.10</u> ft Begin Core Elev. <u>607.10</u> ft Ground Surface Elev. <u>619.6</u> ft
BORING NO. <u>B-WA</u> Station <u>1720+28</u> Offset <u>14.0ft Lt</u> Ground Surface Elev. <u>619.6</u> ft	(ft)	(ft)	(%)	(%)	(min/ft)	(tsf)	

Dk Gray Mod. Indurated Fossiliferous Argillaceous LIMESTONE Open Joints <2"					
	607.10	1	96	64	
	606.40				
V. Dk Gray Well Ind Fossiliferous Calcareous SHALE w/ 1"-2" Geodes Closed Joints 1'-3' filled w/ clayey shale	-15				181.3
	-20				
	599.30	2	100	88	
Gray Well Ind Fossiliferous Argillaceous LIMESTONE Open Joints 2"-12"	598.40				438
Gray Well Ind Fossiliferous Calcareous SHALE Closed Joints 2"-12"	597.50				
Soft Shaley Clayey Seam at 21.8	597.10				
Gray Well Ind Fossiliferous Argillaceous LIMESTONE	-25				
	-30				

Color pictures of the cores Yes, On File
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
RQD is the ratio of the total length of sound core specimens >4" to total length of core run BBS, form 138 (Rev. 8-99)

ROCK CORE 075-0511 IL 104 OVER BROWER CREEK.GPJ BSTEMPL1.GDT 1/21/14



USER NAME =	DESIGNED - HP	REVISED -	
FILE NAME =	CHECKED - MTH	REVISED -	
PLOT SCALE =	DRAWN - AJF	REVISED -	
PLOT DATE =	CHECKED - MTH	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS
STRUCTURE NO. 075-0511**

SHEET NO. 18 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	108B-3	PIKE	69	53
CONTRACT NO. 72B61				

ILLINOIS FED. AID PROJECT