

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**Illinois Department of Transportation** SOIL BORING LOG Page 1 of 3  
Date 7/16/07

ROUTE FAP 817 DESCRIPTION IL 4/15 over Kaskaskia River Overflow LOGGED BY S. Waszkon

SECTION 421B-1 LOCATION NE 1/4, SEC. 5, TWP. 2S, RNG. 6W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 082-0275 (E) / 082-0275 (P)  
Station 149+50 (E)

BORING NO. SB 2 W. Abut  
Station 149+51  
Offset 25.00ft Right  
Ground Surface Elev. 408.0 ft

DEPTH (ft)	LOG	SOIL TYPE	MOISTURE (%)	UNIFORMITY (%)	PLASTICITY (%)	TEST
0		Surface Water Elev. _____ ft				
0		Stream Bed Elev. _____ ft				
0		Groundwater Elev.: _____ ft				
0		First Encounter _____ ft				
375.0		Upon Completion _____ ft				
		After _____ Hrs. _____ ft				
0		Gray Mottled Silty Clay LOAM (continued)	5	1.30	25	
1			0	5/20		
2			4			
2	0.45		24			
4	5/15					
385.0		Brown Sandy LOAM	7	1.43	20	
			7	5/20	19	
384.0						
		Brown Fine to Medium SAND	7	0.18	10	
		See Gradation @ 30 ft				
3			9		8	
4	2.15		13	NC		
5	5/15					
4			5		8	
4	3.25		7	NC		
5	P					
329.0						
3		Brown Silty LOAM with some Gravel	4		7	
5	2.25		7	NC		
5	P					
3			3		21	
3	0.62		3	5/15		
3	P					
384.0						
2		Brown Mottled Silty Clay LOAM	2		23	
3			8	NC		
3						
2	0.42		2		21	
3	2/20					
369.0						
3		Mottled Loamy SAND				
3		See Gradation @ 40 ft				
3			5			

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 (ASTM D 1586)

BBS, from 137 (Rev. 8-89)

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0		Surface Water Elev. _____ ft				
0		Stream Bed Elev. _____ ft				
0		Groundwater Elev.: _____ ft				
0		First Encounter _____ ft				
375.0		Upon Completion _____ ft				
		After _____ Hrs. _____ ft				
7		Mottled Loamy SAND				
		See Gradation @ 40 ft (continued)				
7			13	NC	21	
13						
355.0						
		Brown Coarse to Fine SAND				
		See Gradation @ 60 ft				
7			7		21	
12			15	NC		
15						
7			9		18	
7			9	NC		
7			8		16	
7			9		16	
13			13	NC	22	
13						
357.5						
		Gray Coarse to Fine SAND				
		See Gradation @ 60 ft				
11			11	NC		
11						
335.0						
		Gray Coarse to Medium SAND with some Silt & Clay				
		See Gradation @ 80 ft				
5			10		24	
10			13	NC		
13						
5			8			
9						

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0		Surface Water Elev. _____ ft				
0		Stream Bed Elev. _____ ft				
0		Groundwater Elev.: _____ ft				
0		First Encounter _____ ft				
375.0		Upon Completion _____ ft				
		After _____ Hrs. _____ ft				
17		Gray Coarse to Medium SAND with some Silt & Clay				
		See Gradation @ 80 ft (continued)				
17			17	NC	12	
60/5'						
		Gray Weathered Shale Lens				
8			11		18	
8			15		18	
9			31	NC		
8			9		16	
8			11	NC		
317.5						
317.0		Gravelly Gray Weathered SHALE	45		8	
60/2'						
4.5'						
		End of Boring				

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BORING LOGS  
ILLINOIS ROUTE 4/15 OVER  
KASKASKIA OVERFLOW  
F.A.P. ROUTE 817 SEC 421B-1  
ST. CLAIR COUNTY  
STATION 149+50.00  
STRUCTURE NO. 082-0275

DESIGNED DB  
CHECKED RS  
DRAWN ER  
CHECKED WWH

**Juneau Associates, Inc. P.C.**  
CONSULTING ENGINEERS AND LAND SURVEYORS

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Granite City, Illinois 62040  
Phone: (618) 877-1400  
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Registered Professional Service Corporation License No. 184-000389

100 North Research Drive  
Edwardsville, Illinois 62025  
Phone: (618) 659-8000/(618) 466-8000  
Fax: (618) 659-0841

SHEET NO. 28	F.A.P. RTE. 817	SECTION 421B-1	COUNTY ST. CLAIR	TOTAL SHEETS 56	SHEET NO. 47
28 SHEETS	STRUCTURE NO. 082-0275		CONTRACT NO. 76885		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		