

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 1/30/01

ROUTE FAS 1842 DESCRIPTION IL 156 @Richland Creek LOGGED BY Larry Ford

SECTION 106BR LOCATION SEC., TWP., RNG., PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger and Rock Core HAMMER TYPE 140#

STRUCT. NO. ex-082-0089 Station

BORING NO. #1 EABUT Station 670+95 Offset 13.00ft Lt

Ground Surface Elev. 418.4 ft

DEPTH	BL	UC	M	SOIL	Surface Water Elev.	DEPTH	BL	UC	M	SOIL
(ft)	(#)	(%)	(%)		ft	(ft)	(#)	(%)	(%)	
0					419.1	0	0.5			NC 29
1						1	1.7			
2	0.4					2	0.7			
3	S10	23				3	7	S20	18	
4						4	2.4			NC 14
5	1.0					5	2.4			
6	S10	24				6	2.4			
7						7	2.4			
8						8	2.4			
9						9	2.4			
10						10	2.4			
11						11	2.4			
12	0.6					12	3.1			
13	S10	25				13	5.0	S10	19	
14						14				
15						15				
16						16				
17						17				
18						18				
19						19				
20						20				

Gray Silty CLAY w/Concrete and Rock  
Brown and Gray Silty Clay LOAM  
Brown Sandy LOAM  
Brown SAND  
Br & Gr weathered SHALE w/Limestone Gravel  
Gray & Brown Silty CLAY w/broken Limestone Gravel  
Gray Silty CLAY

End of Boring and Rock Core

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 T208)  
BBS, from 137 (Rev. 8-99)

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### ROCK CORE LOG

Page 2 of 2 Date 1/30/01

ROUTE FAS 1842 DESCRIPTION IL 156 @Richland Creek LOGGED BY Larry Ford

SECTION 106BR LOCATION SEC., TWP., RNG., PM

COUNTY St. Clair CORING METHOD

STRUCT. NO. ex-082-0089 CORING BARREL TYPE & SIZE

BORING NO. #1 EABUT Station 670+95 Offset 13.00ft Lt

Ground Surface Elev. 418.4 ft

DEPTH	RE	CO	VE	TI	CORE	S	T
(ft)	(#)	(%)	(%)	(min)	(sf)		
0							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Slightly weathered, laminated (bottom only), gray, fine, strong, shaly Limestone  
Moderately weathered, gray, fine, very weak, SHALE  
Slightly weathered, yellowish to gray, fine to crystalline, strong, micaceous Limestone  
Moderately weathered SHALE seam

End of Boring and Rock Core

Color pictures of the cores  
Cores will be stored for examination until  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)

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### SOIL BORING LOG

Page 1 of 2 Date 2/5/01

ROUTE FAS 1842 DESCRIPTION IL 156 @Richland Creek LOGGED BY Larry Ford

SECTION 106BR LOCATION SEC., TWP., RNG., PM

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

STRUCT. NO. ex-082-0089 Station

BORING NO. #2 WABUT Station 688+23 Offset 16.00ft Rt

Ground Surface Elev. 418.6 ft

DEPTH	BL	UC	M	SOIL	Surface Water Elev.	DEPTH	BL	UC	M	SOIL
(ft)	(#)	(%)	(%)		ft	(ft)	(#)	(%)	(%)	
0					419.1	0	1.3			
1						1	5	S10	37	
2						2	4			
3						3	1.1			
4						4	1.5			
5						5	5	S10	40	
6						6	3			
7						7	4	2.2		
8						8	6	S10	40	
9						9	4			
10						10	6	2.4		
11						11	8	S10	40	
12						12	4			
13						13	1.0			
14						14	4	S10	29	
15						15	0			
16						16	2	0.4		
17						17	1	B	31	
18						18	2			
19						19	5	S10	32	
20						20	3			
21						21	4	1.6		
22						22	5	B	28	
23						23	4			
24						24	6	2.2		
25						25	8	S15	27	
26						26				

Gray Silty CLAY (continued)  
Gray & Brown Silty CLAY  
Gray Silty CLAY LOAM  
Gray Silty CLAY

End of Boring and Rock Core

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
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SECTION 106BR LOCATION SEC., TWP., RNG., PM

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

STRUCT. NO. ex-082-0089 Station

BORING NO. #2 WABUT Station 688+23 Offset 16.00ft Rt

Ground Surface Elev. 418.6 ft

DEPTH	BL	UC	M	SOIL	Surface Water Elev.	DEPTH	BL	UC	M	SOIL
(ft)	(#)	(%)	(%)		ft	(ft)	(#)	(%)	(%)	
0					419.1	0	0.5			
1						1	0	S10	56	
2						2	4	0.6		
3						3	6	S10	47	
4						4				
5						5	2			
6						6	4	0.8		
7						7	6	S10	16	
8						8				
9						9				
10						10				
11						11				
12						12				
13						13				
14						14				
15						15				
16						16				
17						17				
18						18				
19						19				
20						20				
21						21				
22						22				
23						23				
24						24				
25						25				
26						26				
27						27				
28						28				
29						29				
30						30				

Gray Silty CLAY (continued)  
Gray SHALE (continued)  
End of Boring

Hard Formation  
Reddish Gray weathered SHALE  
Hard Shelves  
Gray SHALE

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
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BBS, from 137 (Rev. 8-99)

BORING LOGS  
F.A.S. ROUTE 1842 - SECTION 106BR  
ST. CLAIR COUNTY  
STATION 669+65.50  
STRUCTURE NO. 082-0387