

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation

**SOIL BORING LOG**

Page 1 of 3 Date 6/12/07

ROUTE FAS 2801 (IL 128) DESCRIPTION Wolf Creek LOGGED BY E. Sandschafer

SECTION (102B)B-1 LOCATION NW 1/4, SEC. 7, TWP. 8 N, RNG. 4 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-0046 Station 974+66

BORING NO. 1 Station 973+54 Offset 9.00ft RT

Ground Surface Elev. 558.42 ft

DEPTH (ft)	DIAMETER (in)	TEST	STRENGTH (tsf)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	TEST	STRENGTH (tsf)
0				8.5" asphalt on 9.5" concrete pavement.	0	0.2	B	24
556.92				Medium, damp, brown marbled gray, SILTY CLAY.	1	3	B	21
553.92				Very soft, very damp, gray, SILTY LOAM.	1	0.3	B	23
533.42				Very soft, very damp, dark gray, SILTY LOAM w/ wood pieces.	1	0.3	B	13
531.42				Very loose, wet, gray, fine grained, SAND. 10% passing #200 sieve.	1	0.2	B	12
523.92				6% passing #200 sieve.	1	1.6	S	15
518.92				Very soft, wet, gray, SANDY LOAM w/ fine Gravel.	1	0.8	B	18
538.42					0			49

Latitude W 88 deg 48.346 min, Longitude N 39 deg 03.534 min, Map Datum NAD 83

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 T206)  
BBS, from 137 (Rev. 8-99)

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**SOIL BORING LOG**

Page 2 of 3 Date 6/12/07

ROUTE FAS 2801 (IL 128) DESCRIPTION Wolf Creek LOGGED BY E. Sandschafer

SECTION (102B)B-1 LOCATION NW 1/4, SEC. 7, TWP. 8 N, RNG. 4 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-0046 Station 974+66

BORING NO. 1 Station 973+54 Offset 9.00ft RT

Ground Surface Elev. 558.42 ft

DEPTH (ft)	DIAMETER (in)	TEST	STRENGTH (tsf)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	TEST	STRENGTH (tsf)
517.92	50/4"		7	Very dense, moist, gray, SILTY CLAY SHALE. (continued)	50/2"			
				Borehole continued with rock coring.				

Latitude W 88 deg 48.346 min, Longitude N 39 deg 03.534 min, Map Datum NAD 83

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 T206)  
BBS, from 137 (Rev. 8-99)

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**ROCK CORE LOG**

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ROUTE FAS 2801 (IL 128) DESCRIPTION Wolf Creek LOGGED BY E. Sandschafer

SECTION (102B)B-1 LOCATION NW 1/4, SEC. 7, TWP. 8 N, RNG. 4 E, 3 PM

COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-0046 Station 974+66

BORING NO. 1 Station 973+54 Offset 9.00ft RT

Ground Surface Elev. 558.42 ft

DEPTH (ft)	DIAMETER (in)	TEST	STRENGTH (tsf)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	TEST	STRENGTH (tsf)
517.92	B1-1	94	46	0.9	Gray, moderately to severely weathered, SILTY CLAY SHALE.			
513.52					Rock core B1A at depth 42.4' to 42.9' Qu = 12 tsf			
513.22	B1-2	85	85	0.9	Gray, soft, CLAY SHALE w/ fine Gravel.			
508.72					Dark gray, slightly weathered, SILTY CLAY SHALE.			
508.62	B1-3	95	48	1	Black, highly fragmented, COAL.			
507.52					Black, highly fragmented, COAL.			
507.12					Gray, slightly weathered, SILTY CLAY SHALE.			
505.92					Gray, SANDY CLAY SHALE.			
504.12					Rock core B1C at depth 52.9' to 53.4' Qu = 37 tsf			
					Extent of exploration.			
					Benchmark: BM 529 chiseled square on top of SE wingwall of existing bridge, Station 975+61.9 Lt 18' = 565.08' elevation. Provided by Program Development. UPDATED Station 03/25/08.			

Color pictures of the cores Available on request  
Cores will be stored for examination until 06/12/08  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)

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 T206)  
BBS, from 137 (Rev. 8-99)



DESIGNED - BAS  
CHECKED - KEF  
DRAWN - SEM  
CHECKED - RJA

SOIL BORINGS  
IL ROUTE 128 OVER WOLF CREEK  
F.A.S. RTE. 2801 - SECTION (102B)B-1  
EFFINGHAM COUNTY  
STATION 974+76.00  
STRUCTURE NO. 025-0105