

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
SOIL BORING LOG
Page 1 of 2
Date 03/23/07

ROUTE FAI 5770 DESCRIPTION West Fayette over I-5770 LOGGED BY E. Sandchafer

SECTION (24-4.3)R LOCATION Sec 19 - S 12, Sec 30 - N 12, SEC., TWP. 8N, R1G. 6E

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

STRUCT. NO. 025-0023
Station 50+00
BORING NO. B-5
Station 51+46
Offset 25.00 ft LL
Ground Surface Elev. 601.75 ft

DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	UCS (%)	CLASSIFICATION
0	ASPHALT shoulder			
1	Very soft, very damp, gray, SILTY CLAY LOAM (continued)	0.3	25	1 B
2	Stiff, damp, gray, CLAY w/trace silt			2 B
3				0
4		1.2	21	2 B
5	Brown marbled gray, CLAY TILL			3 B
578.50				
572.25				
3	Medium to stiff, damp, red marbled blue, CLAY LOAM TILL			2 B
4		1.9	18	4 B
5	Gray, SANDY CLAY			5 B
596.00				
594.75				
3	Very stiff to medium, brown/red, gray, CLAY TILL			3 B
4		2.4	11	4 B
5				5 B
572.25				
3	Very stiff, very moist, red marbled gray, SANDY CLAY LOAM TILL			16 BS
4		3.7	9	32 BS
6				40 BS
2				4 B
4		0.9	19	5 B
5				
587.25				
2	Stiff, damp, gray, CLAY TILL w/trace silt			2 B
4		1.5	28	4 B
9				9 B
584.75				
1	Medium to stiff, damp, gray, SILTY CLAY w/ fine gravel			1 B
3		1.0	21	3 B
5				5 B
582.25				
0				14

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-D) bulge, (S) shear, (P) penetrometer
AASHTO Classifications are based on visual classifications unless otherwise noted: BBS, form 137 (Rev. 8-99)

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SOIL BORING LOG
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ROUTE FAI 5770 DESCRIPTION West Fayette over I-5770 LOGGED BY E. Sandchafer

SECTION (24-4.3)R LOCATION Sec 19 - S 12, Sec 30 - N 12, SEC., TWP. 8N, R1G. 6E

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

STRUCT. NO. 025-0023
Station 50+00
BORING NO. B-5
Station 51+46
Offset 25.00 ft LL
Ground Surface Elev. 601.75 ft

DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	UCS (%)	CLASSIFICATION
29	Hard, very moist, gray, CLAY LOAM TILL (continued)	4.6	9	29 BS
44				44 BS
597.25				
11	Very stiff, very moist, gray, SANDY CLAY TILL			11 BS
24		3.7	11	24 BS
36				36 BS
591.75				
12	Hard, very damp, gray, CLAY LOAM TILL (continued)	4.6	13	12 B
19				19 B
591.75				
12	Very stiff, very moist, dark gray, SILTY CLAY SHALE, pockerchipped			12 BS
33		3.1	16	33 BS
50'4"				50'4" BS
592.25				
592.25				
592.15				
542.25	Very dark brown, wet, PEAT			542.25

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-D) bulge, (S) shear, (P) penetrometer
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Illinois Department of Transportation
Division of Highways
ROCK CORE LOG
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Date 03/23/07

ROUTE FAI 5770 DESCRIPTION West Fayette over I-5770 LOGGED BY E. Sandchafer

SECTION (24-4.3)R LOCATION Sec 19 - S 12, Sec 30 - N 12, SEC., TWP. 8N, R1G. 6E

COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-0023
Station 50+00
BORING NO. B-5
Station 51+46
Offset 25.00 ft LL
Ground Surface Elev. 601.75 ft

DEPTH (ft)	ROCK DESCRIPTION	UCS (tsf)	UCS (%)	CLASSIFICATION
12	Hard, cemented, SANDSTONE	4.6	13	12 BS-1
19	Rock Core BSA @ 80.0' to 80.6' depth Qu = 1208 tsf			19 BS-1
592.2	Soft, cemented, SANDSTONE			592.2 BS-1
517.2	Gray, moderately weathered, CLAY SHALE			517.2 BS-2
100		91	11	100 BS-2
592.2	Rock Core BSB @ 89.0' to 89.5' depth Qu = 15 tsf			592.2 BS-2

Extent of exploration

Benchmark: BM 506 Chiseled square on east pier crash wall under West Fayette Ave structure (025-0023) on NB I-5770 Sta 2146+46, 66.5' R1 = elev. 583.44'. Provided by Program Development.
Boring terminated at 89.5 ft.

Color pictures of the cores Available upon request
Cores will be stored for examination until 03/23/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F.

BORING LOGS
STRUCTURE NO. 025-0106



BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 338-4665
Fax 618-298-4666

SHEET NO. 38	F.A.I. RTE. 57/70	SECTION (25-3HB-2)B	COUNTY EFFINGHAM	TOTAL SHEETS 839	SHEET NO. 367
38 SHEETS	SN 025-0106		CONTRACT NO. 74293		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					