

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District 7 - Moultrie

SOIL BORING LOG

Page 1 of 3 Date 5/17/07

ROUTE FAP 770 (IL 128) DESCRIPTION Moultrie/Shelby Co. Line, Brush Creek LOGGED BY E. Sanduscher
SECTION (116BR)B-1 & (116BR)BR LOCATION NW 1/4, SEC. 30, TWP. 14 N, RNS. 4 E, 3 PW

COUNTY Moultrie DRILLING METHOD Hollow stem auger & soil spoon HAMMER TYPE Auto J40#

STRUCT. NO.	DESCRIPT.	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter Upon Completion	Washed After 312 Hrs.	Ground Surface Elev.
070-0018		665.04 ft	663.12 ft	633.8 ft	665.0 ft		673.29 ft
843+77.4							
843+36							
81,000 ft							

DEPTH (ft)	DIAMETER (in)	SOIL DESCRIPTION	UNSATURATED UNIT WEIGHT (pcf)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX	STRENGTH (ksf)	REMARKS
0	12	Hard, very moist, gray, CLAY LOAM TILL. (continued)	118	5.9	7			
3	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
6	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
9	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
12	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
15	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
18	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
21	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
24	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
27	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by IB-Bulge, S-Shear, P-Penetrometer
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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SECTION (116BR)B-1 & (116BR)BR LOCATION NW 1/4, SEC. 30, TWP. 14 N, RNS. 4 E, 3 PW

COUNTY Moultrie DRILLING METHOD Hollow stem auger & soil spoon HAMMER TYPE Auto J40#

STRUCT. NO.	DESCRIPT.	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter Upon Completion	Washed After 312 Hrs.	Ground Surface Elev.
070-0018		665.04 ft	663.12 ft	633.8 ft	665.0 ft		673.29 ft
843+77.4							
843+36							
81,000 ft							

DEPTH (ft)	DIAMETER (in)	SOIL DESCRIPTION	UNSATURATED UNIT WEIGHT (pcf)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX	STRENGTH (ksf)	REMARKS
0	12	Very stiff, damp, gray, LOAM TILL.	118	11	12			
3	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
6	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
9	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
12	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
15	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
18	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
21	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
24	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			
27	8	Very stiff, damp, gray, LOAM TILL.	118	11	12			

* Very dense, moist, gray, SANDSTONE. Very hard drilling.
** 50/3" x 50/1", 50/1"
Barstake continued with rock core.

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ROCK BORING LOG

Page 3 of 3 Date 5/17/07

ROUTE FAP 770 (IL 128) DESCRIPTION Moultrie/Shelby Co. Line, Brush Creek LOGGED BY E. Sanduscher
SECTION (116BR)B-1 & (116BR)BR LOCATION NW 1/4, SEC. 30, TWP. 14 N, RNS. 4 E, 3 PW

COUNTY Moultrie DRILLING METHOD Rotary, Surf set diamond bit

STRUCT. NO.	DESCRIPT.	Core Diameter	Top of Rock Elev.	Begin Core Elev.	Ground Surface Elev.
070-0018		2.06 in	593.79 ft	593.99 ft	673.29 ft
843+77.4					
843+36					
81,000 ft					

DEPTH (ft)	DIAMETER (in)	ROCK DESCRIPTION	UNSATURATED UNIT WEIGHT (pcf)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX	STRENGTH (ksf)	REMARKS
0	2.06	Gray w/ thin block layering, slightly weathered, SANDSTONE.	150	4.0	0.4			
3	2.06	Gray, CLAY SHALE.	150	4.0	0.5			
6	2.06	Gray, CLAY SHALE.	150	4.0	0.5			
9	2.06	Gray, CLAY SHALE.	150	4.0	0.5			
12	2.06	Gray, CLAY SHALE.	150	4.0	0.5			
15	2.06	Gray, CLAY SHALE.	150	4.0	0.5			
18	2.06	Gray, CLAY SHALE.	150	4.0	0.5			
21	2.06	Gray, CLAY SHALE.	150	4.0	0.5			
24	2.06	Gray, CLAY SHALE.	150	4.0	0.5			
27	2.06	Gray, CLAY SHALE.	150	4.0	0.5			

Color pictures of the cores Yes
Cores will be stored for examination until 05/17/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BORING LOGS
F.A.P. RTE. 770 -
SEC. (116BR)B-1 & (116BR)BR
MOULTRIE COUNTY
STATION 843+77.40
STRUCTURE NO. 070-2019