

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 821	13B-1	JEFFERSON	39	29
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 16

17 SHEETS

Contract #98957

**Illinois Department of Transportation**  
Division of Highways  
District 7 Materials

### SOIL BORING LOG

Page 1 of 3  
Date 10/4/04

ROUTE FAP 821 (IL 15) DESCRIPTION Big Muddy River LOGGED BY E. Sandschafer

SECTION 13B-1 LOCATION N 12, SEC. 33, TWP. 2 S, RNG. 2 E, 3 PM

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

STRUCT. NO. 041-0023  
Station 1200+35

BORING NO. 1 (W. Abut)  
Station 1199+63  
Offset 9.50ft Lt  
Ground Surface Elev. 439.71 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. WGT. (pcf)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	UNCONF. COMP. STRENGTH (ksf)	FAILURE MODE
0	Surface Water Elev. _____ ft							
0	Stream Bed Elev. _____ ft							
0	Groundwater Elev.: _____ ft							
0	First Encounter _____ ft							
0	Upon Completion _____ ft							
0	After _____ Hrs. _____ samples							
0	Brown, fine grained, SAND, 13% passing #200 sieve. (continued)							
0	Stiff, damp, brown mottled gray, SANDY CLAY LOAM.							
0	Gray, SILTY LOAM w/one 1" sand lens.							
0	Very stiff, damp, gray, SANDY CLAY TILL.							
0	Very stiff to hard, damp, gray, SILTY LOAM w/two 1" sand lenses.							
0	Dense, damp, gray, medium grained, SAND, 3% passing #200 sieve.							
0	Very stiff, damp, gray, SANDY CLAY LOAM TILL w/few sandstone fragments.							

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)

**Illinois Department of Transportation**  
Division of Highways  
District 7 Materials

### SOIL BORING LOG

Page 2 of 3  
Date 10/4/04

ROUTE FAP 821 (IL 15) DESCRIPTION Big Muddy River LOGGED BY E. Sandschafer

SECTION 13B-1 LOCATION N 12, SEC. 33, TWP. 2 S, RNG. 2 E, 3 PM

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

STRUCT. NO. 041-0023  
Station 1200+35

BORING NO. 1 (W. Abut)  
Station 1199+63  
Offset 9.50ft Lt  
Ground Surface Elev. 439.71 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. WGT. (pcf)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	UNCONF. COMP. STRENGTH (ksf)	FAILURE MODE
0	Hard, very moist, gray, CLAY LOAM TILL. (continued)							
0	Very stiff, very moist, gray, SANDY LOAM TILL.							
0	Brown, SANDY LOAM.							
0	Very dense, moist, gray, CLAY SHALE.							
0	Borehole continued with rock coring.							

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)

**Illinois Department of Transportation**  
Division of Highways  
District 7 Materials

### ROCK BORING LOG

Page 3 of 3  
Date 10/4/04

ROUTE FAP 821 (IL 15) DESCRIPTION Big Muddy River LOGGED BY E. Sandschafer

SECTION 13B-1 LOCATION N 12, SEC. 33, TWP. 2 S, RNG. 2 E, 3 PM

COUNTY Jefferson CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 041-0023  
Station 1200+35

BORING NO. 1 (W. Abut)  
Station 1199+63  
Offset 9.50ft Lt  
Ground Surface Elev. 439.71 ft

DEPTH (ft)	SOIL DESCRIPTION	DRILLING METHOD	SP. WGT. (pcf)	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	UNCONF. COMP. STRENGTH (ksf)	FAILURE MODE
0	Gray, moderately weathered, CLAY SHALE							
0	Brown, fractured, CHERT.							
0	Gray, moderately weathered, CLAY SHALE.							
0	Brown, fractured, CHERT w/quartz.							
0	Gray, moderately weathered, CLAY SHALE.							
0	Extent of exploration.							
0	Benchmark: BM 204 Sta 1201+10, 33.5'R, Elevation = 439.56'. "Square" Chiseled in SE corner of 6' X 6' Conc. pad for Streamflow Monitoring Station.							

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)

**BORING LOGS**  
**F.A.P. RT. 821 - SECTION 13B-1**  
**JEFFERSON COUNTY**  
**STATION 1200+35.00**  
**STRUCTURE NO. 041-0106**