



Illinois Department of Transportation
Division of Highways
Geotech Engineering & Testing, Inc.

SOIL BORING LOG

Date 11/30/10

ROUTE FAS 1388 (IL 8) DESCRIPTION IL 8 Over Kickapoo Creek LOGGED BY C. Farmer

SECTION (Z-1D-BR-1) BR LOCATION SE 1/4, SEC. 24, TWP. 9N, RNG. 0E, 4th PM, Latitude Longitude

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 072-0047
Station 792+64.23
BORING NO. Pier 02
Station 800+76.38
Offset 25.0 ft RT
Ground Surface Elev. 497.27 ft

| Description | Depth (ft) | Blow Count (6") | SPT (tsf) | U (tsf) | M (tsf) | O (tsf) | D (ft) | B (ft) | U (ft) | M (ft) | O (ft) | Elevations | | |
|--|------------|-----------------|-----------|---------|---------|---------|--------|--------|--------|--------|--------|--------------------------|-----------------------|--------|
| | | | | | | | | | | | | Surface Water Elev. (ft) | Stream Bed Elev. (ft) | |
| Very Loose to Dense, Brown to Tan, Wet, Coarse SAND (continued) | 9 | | | | | | 9 | | | | | | 489.04 | 488.00 |
| | 12 | | | | | | 12 | | | | | | | |
| | 20 | | | | | | 20 | | | | | | | |
| | 18 | | | | | | 18 | | | | | | 474.77 | |
| Very Firm to Dense, Brown to Tan, Saturated, Coarse SAND w/ Gravel and Shale Fragments | 19 | | | | | | 19 | | | | | | | |
| | 17 | | | | | | 17 | | | | | | | |
| | 6 | | | | | | 6 | | | | | | | |
| Very Soft to Firm, Brown, moist, SILTY CLAY LOAM w/ Some Organics | 10 | | | | 23 | | 10 | | | | | | | |
| | 12 | | | | | | 12 | | | | | | | |
| | 2 | | | | | | 2 | | | | | | | |
| | 3 | | | | | | 3 | | | | | | | |
| | 21 | | | | | | 21 | | | | | | | |
| Borehole continued with rock coring. | 15 | | | | | | 15 | | | | | | | |
| | 17 | | | | | | 17 | | | | | | | |
| Very Soft, Dark Brown to Black, Very Moist to Wet, SILTY CLAY LOAM w/ Organics | 0 | | | | 36 | | 0 | | | | | | | |
| | 0 | | | | | | 0 | | | | | | | |
| | 1 | | | | | | 1 | | | | | | | |
| | 0 | | | | 21 | | 0 | | | | | | | |
| | 0 | | | | | | 0 | | | | | | | |
| Very Loose to Dense, Brown to Tan, Wet, Coarse SAND | 15 | | | | | | 15 | | | | | | | |
| | 1 | | | | | | 1 | | | | | | | |
| | 1 | | | | | | 1 | | | | | | | |
| | 3 | | | | | | 3 | | | | | | | |
| | 3 | | | | 21 | | 3 | | | | | | | |
| | 3 | | | | | | 3 | | | | | | | |
| | 20 | | | | | | 20 | | | | | | | |

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, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.

ROCK CORE LOG

Date 11/30/10

ROUTE FAS 1388 (IL 8) DESCRIPTION IL 8 Over Kickapoo Creek LOGGED BY C. Farmer

SECTION (Z-1D-BR-1) BR LOCATION SE 1/4, SEC. 24, TWP. 9N, RNG. 0E, 4th PM, Latitude Longitude

COUNTY Peoria CORING METHOD Rotary Surf Set Diamond Bit

STRUCT. NO. 072-0047
Station 792+64.23
BORING NO. Pier 02
Station 800+76.38
Offset 25.0 ft RT
Ground Surface Elev. 497.27 ft

| Description | Depth (ft) | Core Diameter (in) | Core Length (ft) | Rock Mass Rating | Class | D (ft) | B (ft) | U (ft) | M (ft) | O (ft) | Elevations | | |
|--|------------|--------------------|------------------|------------------|-------|--------|--------|--------|--------|--------|------------------------|-----------------------|--------|
| | | | | | | | | | | | Top of Rock Elev. (ft) | Begin Core Elev. (ft) | |
| Dark Gray, Highly Weathered, Stratified, CLAY SHALE with Dark Gray CLAY Seams | 9 | | | | | 9 | | | | | | 489.04 | 488.00 |
| Rock Core P2C1 from 29.0' to 36.0' depth. Rock Mass Rating = 27 (Class No. IV - Poor Rock) (continued) | 12 | | | | | 12 | | | | | | | |
| | 20 | | | | | 20 | | | | | | | |
| | 18 | | | | | 18 | | | | | | | |
| | 19 | | | | | 19 | | | | | | | |
| | 17 | | | | | 17 | | | | | | | |
| | 6 | | | | | 6 | | | | | | | |
| Dark Gray, Highly Weathered, Stratified, CLAY SHALE | 10 | | | | | 10 | | | | | | | |
| | 12 | | | | | 12 | | | | | | | |
| | 2 | | | | | 2 | | | | | | | |
| | 3 | | | | | 3 | | | | | | | |
| | 21 | | | | | 21 | | | | | | | |
| Rock Core P2C2 from 36.0' to 44.0' depth. Rock Mass Rating = 33 (Class No. IV - Poor Rock) | 15 | | | | | 15 | | | | | | | |
| | 17 | | | | | 17 | | | | | | | |
| | 0 | | | | | 0 | | | | | | | |
| | 0 | | | | | 0 | | | | | | | |
| | 1 | | | | | 1 | | | | | | | |
| | 0 | | | | | 0 | | | | | | | |
| | 1 | | | | | 1 | | | | | | | |
| | 0 | | | | | 0 | | | | | | | |
| End of Boring | 15 | | | | | 15 | | | | | | | |
| | 1 | | | | | 1 | | | | | | | |
| | 1 | | | | | 1 | | | | | | | |
| | 3 | | | | | 3 | | | | | | | |
| | 3 | | | | | 3 | | | | | | | |
| | 20 | | | | | 20 | | | | | | | |

Color pictures of the cores Yes
Cores will be stored for examination until 12/8/12
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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