Illinois Department of Transportation
Division of Highways
Geotechnology

# SOIL BORING LOG



Date 2/6/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY RFW

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD HSA with MR HAMMER TYPE CME 75 / 80%

STRUCT. NO. 082-W302
Station 67+16.01

BORING NO. RW-403
Station 67+16.01
Offset 63ft Right
Ground Surface Elev. 420.1 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter Not Measured ft
Upon Completion Not Measured ft
After ____ Hrs. Not Measured ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Crushed limestone gravel (FILL) | 418.8 | | 14 | | |
| Stiff, gray, CLAY, trace sand | | | 6 | | 20 |
| | | | 7 | | |
| | | | 4 | | |
| | | | 6 | 1.9 | 15 |
| | | -5 | 5 | | |
| Medium stiff, brown, SANDY CLAY LOAM | 414.6 | | 2 | | |
| | | | 3 | | 26 |
| | | | 4 | | |
| Medium stiff to stiff, brown, SILTY LOAM<br>Grain size distribution conducted | 412.1 | | 2 | | |
| | | | 3 | | 23 |
| | | -10 | 3 | | |
| | | | 2 | | |
| | | | 2 | 1.1 | 18 |
| | | | 3 | | |
| Stiff to medium stiff, gray, SILTY CLAY LOAM | 407.6 | | 2 | | |
| | | | 3 | 1.1 | 20 |
| | | -15 | 7 | | |
| | | | 2 | | |
| | | | 2 | 0.6 | 29 |
| | | | 2 | | |
| Very stiff to medium stiff, gray, SILTY CLAY, with trace silt | 402.1 | | 2 | | |
| | | | 2 | 3.0 | 27 |
| | | -20 | 3 | | |
| Very stiff to medium stiff, gray, SILTY CLAY, with trace silt *(continued)* | | | 2 | | |
| | | | 2 | 0.6 | 41 |
| | | | 2 | | |
| | | | 0 | | |
| | | | 1 | 1.1 | 35 |
| | | -25 | 1 | | |
| Medium dense, light brown, FINE GRAINED SAND, trace silt | 394.6 | | 7 | | |
| | | | 9 | | |
| | | | 10 | | |
| Grain size distribution conducted | | | 8 | | |
| | | | 12 | | |
| | | -30 | 13 | | |
| | | | 5 | | |
| | | | 7 | | |
| | | -35 | 9 | | |
| Medium dense to dense, brown, MEDIUM GRAINED SAND, with gravel | 383.1 | | | | |
| | | -40 | | | |

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)

* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used

Illinois Department of Transportation
Division of Highways
Geotechnology

# SOIL BORING LOG



Date 2/6/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY RFW

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD HSA with MR HAMMER TYPE CME 75 / 80%

STRUCT. NO. 082-W302
Station 67+16.01

BORING NO. RW-403
Station 67+16.01
Offset 63ft Right
Ground Surface Elev. 420.1 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter Not Measured ft
Upon Completion Not Measured ft
After ____ Hrs. Not Measured ft

| Description | Elev. | DEPTH (ft) | BLOWS (/6") | UCS Qu (tsf) | MOIST (%) |
|---|---|---|---|---|---|
| Medium dense to dense, brown, MEDIUM GRAINED SAND, with gravel *(continued)* | | | 13 | | |
| | | | 17 | | |
| | | -45 | 13 | | |
| | | | 7 | | |
| | | | 7 | | |
| | | -50 | 8 | | |
| | | | 10 | | |
| | | | 20 | | |
| | | -55 | 21 | | |
| | | | 9 | | |
| | | | 13 | | |
| | 360.1 | -60 | 26 | | |

End of Boring

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)

* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used