



# SOIL BORING LOG

Date 9/10/10

ROUTE FAI 57/FAP 331 DESCRIPTION FAI 57 Ramp I over Ramp D LOGGED BY KEG

SECTION (X1-6-2)HB-1 LOCATION Marion; N 1/2 Section 14, TWP 9S, RNG 2E

COUNTY Williamson DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

STRUCT. NO. 100-0097  
 Station \_\_\_\_\_  
 BORING NO. B-15  
 Station 13+74.78  
 Offset 7.3 ft Lt  
 Ground Surface Elev. 468.63 ft

| DEPTH (ft) | BLOW (ft) | UCS (tsf) | MOIST (%) | DESCRIPTION  | DEPTH (ft) | BLOW (ft) | UCS (tsf) | MOIST (%) | DESCRIPTION                     |
|------------|-----------|-----------|-----------|--|------------|-----------|-----------|-----------|---------------------------------|
| 7          |           |           |           | FILL: Gray and brown, silty clay (A-7)                       |            |           |           |           | CLAYEY SHALE: Brown (continued) |
| 7          | 3.3       | 16        |           | Boring offset 10'W due to electric utility.                  | 39         |           |           |           | Becomes brown and gray          |
| 8          | S         |           |           |  | 50/3"      | -         | 9         |           |                                 |
| 465.6      |           |           |           |  | 445.9      |           |           |           |                                 |
| 3          |           |           |           | SILTY CLAY: Brown, some sand (A-6)                           |            |           |           |           | SHALE: Gray                     |
| 3          | 1.9       | 19        |           | LL-31, PL-18, PI-13  | 50/5"      | -         | 8         |           |                                 |
| 5          | B         |           |           |  | 50/1"      |           |           |           |                                 |
| 463.1      |           |           |           |  | 463.2      |           |           |           |                                 |
| 2          |           |           |           | CLAY: Gray and brown, trace sand (A-7)                       | 50/4"      | -         | 6         |           |                                 |
| 2          | 1.6       | 21        |           |  | 50/2"      |           |           |           |                                 |
| 4          | B         |           |           |  |            |           |           |           |                                 |
| 439.6      |           |           |           | Becomes brown, dark brown, and gray, some sand, trace gravel | 50/3"      | -         | 5         |           | End of Boring                   |
| 3          | 1.2       | 20        |           |  | 50/3"      |           |           |           |                                 |
| 5          | S         |           |           |  |            |           |           |           |                                 |
| 455.6      |           |           |           | Becomes gray and brown, trace sand, no gravel                |            |           |           |           |                                 |
| 3          |           |           |           |  |            |           |           |           |                                 |
| 5          | 0.6       | 24        |           |  |            |           |           |           |                                 |
| 4          | B         |           |           |  |            |           |           |           |                                 |
| 453.1      |           |           |           | SILTY CLAY: Brown, some sand (A-6)                           |            |           |           |           |                                 |
| 2          |           |           |           |  |            |           |           |           |                                 |
| 2          | 0.4       | 19        |           |  |            |           |           |           |                                 |
| 3          | B         |           |           |  |            |           |           |           |                                 |
| 450.6      |           |           |           | SHALE: Gray  |            |           |           |           |                                 |
| 50         |           |           |           |  |            |           |           |           |                                 |
| 50/2.5"    | -         | 8         |           |  |            |           |           |           |                                 |
| 450.6      |           |           |           | CLAYEY SHALE: Brown  |            |           |           |           |                                 |
| 30         |           |           |           |  |            |           |           |           |                                 |
| 50/3"      | -         | 12        |           |  |            |           |           |           |                                 |

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)



# SOIL BORING LOG

Date 9/13/10

ROUTE FAI 57/FAP 331 DESCRIPTION FAI 57 Ramp I over Ramp D LOGGED BY KEG

SECTION (X1-6-2)HB-1 LOCATION Marion; N 1/2 Section 14, TWP 9S, RNG 2E

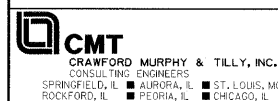
COUNTY Williamson DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

STRUCT. NO. 100-0097  
 Station \_\_\_\_\_  
 BORING NO. B-16  
 Station 13+97.92  
 Offset 29.3 ft Rt  
 Ground Surface Elev. 468.65 ft

| DEPTH (ft) | BLOW (ft) | UCS (tsf) | MOIST (%) | DESCRIPTION                            | DEPTH (ft) | BLOW (ft) | UCS (tsf) | MOIST (%) | DESCRIPTION              |
|------------|-----------|-----------|-----------|--|------------|-----------|-----------|-----------|--------------------------|
| 467.7      |           |           |           | Grass cover and topsoil                |            |           |           |           | SHALE: Brown (continued) |
| 8          |           |           |           | FILL: Brown and gray, silty clay (A-7) | 50         |           |           |           |                          |
| 9          | 4.4       | 15        |           |  | 50/2"      | -         | 7         |           |                          |
| 8          | B         |           |           |  |            |           |           |           |                          |
| 5          |           |           |           | Some sand                              | 50/3"      | -         | 6         |           | Becomes gray             |
| 7          | 4.5       | 14        |           |  | 50/1"      |           |           |           |                          |
| 7          | P         |           |           |  |            |           |           |           |                          |
| 463.2      |           |           |           |  |            |           |           |           |                          |
| 4          |           |           |           | FILL: Brown, clay (A-7)                | 50/4"      | -         | 5         |           |                          |
| 4          | 1.6       | 20        |           |  | 50/1"      |           |           |           |                          |
| 5          | B         |           |           |  |            |           |           |           |                          |
| 460.7      |           |           |           |  |            |           |           |           |                          |
| 4          |           |           |           | CLAY: Brown, some sand (A-7)           | 50/4"      | -         | 6         |           | Becomes brown and gray   |
| 4          | 1.5       | 18        |           |  | 50/2"      |           |           |           | End of Boring            |
| 6          | B         |           |           |  |            |           |           |           |                          |
| 453.2      |           |           |           |  |            |           |           |           |                          |
| 3          |           |           |           |  |            |           |           |           |                          |
| 3          | 0.8       | 19        |           |  |            |           |           |           |                          |
| 3          | B         |           |           |  |            |           |           |           |                          |
| 455.6      |           |           |           |  |            |           |           |           |                          |
| 2          |           |           |           | Trace coal, gravel                     |            |           |           |           |                          |
| 5          | 3.5       | 16        |           |  |            |           |           |           |                          |
| 6          | P         |           |           |  |            |           |           |           |                          |
| 453.2      |           |           |           |  |            |           |           |           |                          |
| 26         |           |           |           | SHALE: Brown                           |            |           |           |           |                          |
| 50/5"      | -         | 8         |           |  |            |           |           |           |                          |
| 50         |           |           |           |  |            |           |           |           |                          |
| 50/3"      | -         | 8         |           |  |            |           |           |           |                          |

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)



FILE NAME = ...ramp BORING LOGS l.dgn  
 USER NAME = Rob Heady  
 PLOT SCALE =  
 PLOT DATE = 10/7/2011

DESIGNED - BPD  
 CHECKED - REB  
 DRAWN - GLD  
 CHECKED - BPD

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS I  
 STRUCTURE NO. 100-0097

SHEET NO. 22 OF 23 SHEETS

| F.A. RTE.                                     | SECTION      | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---|--------------|------------|--------------|-----------|
| *   | (X1-6-2)HB-1 | WILLIAMSON | 968          | 682       |
| * F.A.I. 57 AND F.A.P. 331 CONTRACT NO. 78182 |              |            |              |           |
| [ILLINOIS] FED. AID PROJECT                   |              |            |              |           |