BLOCK NAME
MSFT18
PARTLEEV
SCIATFAR
FLORNOTL

# STATE OF ILLINOIS
# DEPARTMENT OF TRANSPORTATION

| F.A.P. RTE. | SEC. | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 592 | 121-1R, 121HVB | ST. CLAIR | 239 | 159 |
| F.H.W.A. REGION 7 | ILLINOIS | FED. AID PROJECT | | |

SHEET NO.: 23
SHEETS: 23

## ILLINOIS DEPARTMENT OF TRANSPORTATION

**District Eight Materials**

Sheet 3 of 3

Date 12/1/00 & 12/4/00

| | | | |
|---|---|---|---|
| PROJECT | FAP 592 | DESCRIPTION | Alternate Route 5 |
| ROUTE | Illinois Route 157 | LOCATION | Cahokia Illinois |
| SECTION | 121RS-2 | DRILL METHOD | CME 75 Drill Rig/Hollow stem auger (4.25") |
| COUNTY | St. Clair County | HAMMER TYPE | Automatic Hammer |
| STRUCTURE NO. | | Drilled By | Harriss Drillings Svcs |
| | | Checked By | SCI |

Boring No.: B-111
Station: 5030+21
Offset: 19.8 RT.
Ground Surface El. 406.6 ft.

Surface Water Elevation:
Groundwater Elevation:
First Encountered: 396.1
Upon Completion:
After 24 Hours: 396.4/Collapse @ 395.2
Mud Rotary Start @ Elevation: 391.6

| Description | Depth (ft) El. | N | Qu t/sf | W % |
|---|---|---|---|---|
| GRAVELY per driller's observations @ 91.5' | | | | |
| | 95 | 20 13 16 | No Recovery | |
| GRAVELY per driller's observations from 96'-97' | | | | |
| | 306.6 100 | | | |
| Brown very dense, fine to medium coarse SAND w/ trace gravel with cobble fragment in the bottom of the split spoon (A-1-b) | | | | |
| | 105 | 19 46 70 | | |
| Difficulty in drilling per driller's observation from 105' - 109.5' | | | | |
| | 110 | | | |
| COBBLES per driller's observation @ 112' | | | | |

| Depth (ft) El. | N | Qu t/sf | W % |
|---|---|---|---|
| 293.1 | | | |
| Refusal w/ tricone bit @ 113.5'. Observations of sieved/and washed cuttings from 112' to 113.5' indicated LIMESTONE fragments w/ coarse SAND | | | |
| 115 | | | |
| 120 | | | |
| 125 | | | |
| 130 | | | |
| 135 | | | |

Standard Penetration Test (N-value) - Blows per foot to drive 2-inch O.D. split spoon sampler 12-inches with a 140# Hammer falling 30-inches. Failure Type: B-Bulge; S-Shear; P-Penetrometer Test; E-Estimated
Qu - Unconfined Compressive Strength (t/sf)
W - water content (percentage of oven dry weight - %)
AASHTO Designations are estimated unless determined by laboratory analysis

## ILLINOIS DEPARTMENT OF TRANSPORTATION

**District Eight Materials**

Sheet 1 of 1

Date 12/5/00

| | | | |
|---|---|---|---|
| PROJECT | FAP 592 | DESCRIPTION | Alternate Route 5 |
| ROUTE | Illinois Route 157 | LOCATION | Cahokia, Illinois |
| SECTION | 121RS-2 | DRILL METHOD | CME 75 Drill Rig/Hollow stem auger |
| COUNTY | St. Clair County | HAMMER TYPE | Automatic Hammer |
| STRUCTURE NO. | | Drilled By | Harriss Drillings Svcs |
| | | Checked By | SCI |

Boring No.: B-111 ST
Station: 5030+26
Offset: 17.3 RT.
Ground Surface El. 406.5 ft.

Surface Water Elevation:
Groundwater Elevation:
First Encountered:
Upon Completion:
After 24 Hours: /Collapse @
Mud Rotary Start @ Elevation:

| Description | Depth (ft) El. | N | Qu t/sf | W % |
|---|---|---|---|---|
| Brown high plastic CLAY (A-7) | 404.5 | | | 32 |
| Gray and brown high plastic CLAY (A-7) | 402.5 | | 2.18 | 37 |
| Gray and brown low plastic SILTY CLAY w/ little sand (A-6) | 5 / 400.5 | | 1.03 / 0.90 | 17 / 22 |
| Brown and gray low plastic SILT (A-4) | 399.5 | | 0.53 | 35 |
| Brown and gray low plastic SILTY CLAY (A-6) | 398.5 | | 0.46 | 37 |
| Brown and gray low plastic SILTY CLAY w/ little sand (A-4) | 10 / 396.5 | | 0.51 / 0.89 | 35 / 37 |
| Gray and brown low plastic SILTY CLAY (A-3) | 395.5 | | | 31 |
| Brown fine SAND (A-3) | 394.5 | | | |
| Boring terminated @ 12' | 15 | | | |
| | 20 | | | |

| Depth (ft) El. | N | Qu t/sf | W % |
|---|---|---|---|
| 25 | | | |
| 30 | | | |
| 35 | | | |
| 40 | | | |
| 45 | | | |

ST (30 inches in length by 3 inch O.D.) and hyd. pressed 24 inches - continuous sampling.
Qu - Unconfined Compressive Strength (t/sf)
W - water content (percentage of oven dry weight - %)
AASHTO Designations are estimated unless determined by laboratory analysis

SOIL BORING LOGS
F.A.P. 592 (IL Rte. 157) OVER
UNION PACIFIC RAILROAD
SECTION 121-1R, 121HVB
ST. CLAIR COUNTY
STATION 5029+64.85
STRUCTURE NO. 082-0303

PLOT DATE = 03/21/2007
FILE NAME = h:\2\2015\microstat\struct\03B3bornngsh12.dgn
PLOT SCALE = 1.0000 IN / IN.
USER NAME = $USER$