

Wang Engineering
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 1145 N Main Street
 Lombard, IL 60148
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BORING LOG 3RW7-HA-05

WEI Job No.: 201-40-01
 Client: McDonough Associates Inc.
 Project: US 45, Segment 3
 Location: Ret. Wall 016-Z006, Cook Co., IL

Datum: NGVD
 Elevation: 678.00 ft
 North: 1811552.01 ft
 East: 1115220.57 ft
 Station: 307+50.78
 Offset: 84.86 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) |
|------------------------|---|------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| 677.0 | 12-inch thick, black to dark brown LOAM to SILTY LOAM --TOPSOIL-- | | 1 | | NP | | 677.0 | | | | | | |
| 675.5 | Brown SILTY LOAM --FILL-- | | 2 | | 4.50 | | 675.5 | | | | | | |
| | Very stiff to hard, brown and gray SILTY CLAY LOAM, trace gravel | | 3 | | 4.38 | | | | | | | | |
| | | | 4 | | 5.17 | | | | | | | | |
| | | | 5 | | 7.36 | | | | | | | | |
| 667.5 | Gray and brown, fine SAND to SANDY LOAM, trace gravel | | 6 | | NP | | 667.5 | | | | | | |
| 665.7 | Very soft, gray SILTY CLAY, trace organic | | 7 | | 0.25 | | 665.7 | | | | | | |
| | | | 8 | | 0.25 | | | | | | | | |
| 662.2 | Gray SAND, little gravel --WET-- | | 9 | | 0.80 | | 662.2 | | | | | | |
| 660.2 | Medium stiff, gray SILTY CLAY LOAM, trace gravel | | 10 | | NP | | 660.2 | | | | | | |
| | Gray, fine SAND --WET-- | | | | | | | | | | | | |
| 658.6 | Boring terminated at 20.00 ft | 20 | | | | | 658.6 | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|------------|-------------------|------------|---------------------------|----------|--|--|
| Begin Drilling | 10-04-2011 | Complete Drilling | 10-04-2011 | While Drilling | 12.50 ft | | |
| Drilling Contractor | WTS | Drill Rig | Geoprobe | At Completion of Drilling | 13.00 ft | | |
| Driller | F&N | Logger | N. Boddy | Time After Drilling | NA | | |
| Drilling Method | Hand Auger | Checked by | C. Marin | Depth to Water | NA | | |

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BORING LOG 3RW7-HA-06

WEI Job No.: 201-40-01
 Client: McDonough Associates Inc.
 Project: US 45, Segment 3
 Location: Ret. Wall 016-Z006, Cook Co., IL

Datum: NGVD
 Elevation: 677.50 ft
 North: 1811615.17 ft
 East: 1115217.90 ft
 Station: 308+13.97
 Offset: 86.77 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) |
|------------------------|--|------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| 677.0 | 6-inch thick, black SILTY LOAM --TOPSOIL-- | | 1 | | NP | | 677.0 | | | | | | |
| 675.5 | Brown SILTY LOAM --FILL-- | | 2 | | 3.06 | | 675.5 | | | | | | |
| | Very stiff to hard, brown to gray SILTY CLAY | | 3 | | 4.11 | | | | | | | | |
| 671.5 | Brown SILTY LOAM | | 4 | | NP | | 671.5 | | | | | | |
| 670.0 | Very stiff to hard, brown to gray SILTY CLAY, trace gravel | | 5 | | 6.97 | | 670.0 | | | | | | |
| | | | 6 | | 2.48 | | | | | | | | |
| | | | 7 | | 3.44 | | | | | | | | |
| 663.5 | Gray, fine to medium SAND | | 8 | | NP | | 663.5 | | | | | | |
| | | | 9 | | NP | | | | | | | | |
| 660.0 | Very stiff, gray SILTY CLAY | | 10 | | 2.50 | | 660.0 | | | | | | |
| 657.5 | Boring terminated at 20.00 ft | 20 | | | | | 657.5 | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|------------|-------------------|------------|---------------------------|----------|--|--|
| Begin Drilling | 10-17-2011 | Complete Drilling | 10-17-2011 | While Drilling | 14.00 ft | | |
| Drilling Contractor | WTS | Drill Rig | Geoprobe | At Completion of Drilling | 14.00 ft | | |
| Driller | F&N | Logger | N. Boddy | Time After Drilling | NA | | |
| Drilling Method | Hand Auger | Checked by | C. Marin | Depth to Water | NA | | |

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BORING LOG 3RW7-HA-07

WEI Job No.: 201-40-01
 Client: McDonough Associates Inc.
 Project: US 45, Segment 3
 Location: Ret. Wall 016-Z006, Cook Co., IL

Datum: NGVD
 Elevation: 676.50 ft
 North: 1811695.50 ft
 East: 1115219.80 ft
 Station: 308+94.29
 Offset: 83.91 LT

| Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) | Profile Elevation (ft) | SOIL AND ROCK DESCRIPTION | Depth (ft) | Sample No. | SPT Values (blows/in) | Qu (tsf) | Moisture Content (%) |
|------------------------|--|------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| 676.0 | 6-inch thick, black SILTY LOAM --TOPSOIL-- | | 1 | | NP | | 676.0 | | | | | | |
| | Brown SILTY LOAM | | 2 | | NP | | | | | | | | |
| | | | 3 | | NP | | | | | | | | |
| 671.5 | Hard, brown and gray SILTY LOAM to SILTY CLAY LOAM, trace gravel | | 4 | | 2.29 | | 671.5 | | | | | | |
| | | | 5 | | 11.46 | | | | | | | | |
| | | | 6 | | 4.58 | | | | | | | | |
| | | | 7 | | 2.48 | | | | | | | | |
| | | | 8 | | 1.15 | | | | | | | | |
| | | | 9 | | 1.34 | | | | | | | | |
| | | | 10 | | 1.53 | | | | | | | | |
| 657.5 | Boring terminated at 19.00 ft | 19 | | | | | 657.5 | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|------------|-------------------|------------|---------------------------|-----|--|--|
| Begin Drilling | 10-17-2011 | Complete Drilling | 10-18-2011 | While Drilling | DRY | | |
| Drilling Contractor | WTS | Drill Rig | Geoprobe | At Completion of Drilling | DRY | | |
| Driller | F&N | Logger | N. Boddy | Time After Drilling | NA | | |
| Drilling Method | Hand Auger | Checked by | C. Marin | Depth to Water | NA | | |

100 S. WACKER DR.
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 FAX (312) 939-4198

FILE NAME = 016Z006-60M62-017-bor.dgn
 USER NAME = Anthony.Plutz
 PLOT SCALE = 0:2.0000 ' / in.
 PLOT DATE = 3/13/2013

DESIGNED - WEI
 CHECKED - AMK
 DRAWN - AMV
 CHECKED - AMK

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS 8
 STRUCTURE NO. 016-Z006

SHEET NO. 17 OF 21 SHEETS

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 330 | 103R-5 | COOK | 778 | 457 |
| CONTRACT NO. 60M62 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |