

BORING LOG RWB-52

WEI Job No.: 201-40-01
 Client: McDonough Associates Inc.
 Project: US 45, Segment 2
 Location: Ret. Wall RW-10, Cook Co., T36N, R12E

Datum: NGVD
 Elevation: 716.61 ft
 North: 1805383.18 ft
 East: 1115339.45 ft
 Station: 245+82.05
 Offset: 57.08 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 (%) |
|------------------------|---|------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| 716.16 | 16-inch thick, brown SILTY CLAY --TOPSOIL-- | | | | | | | | | | | | |
| | CRUSHED STONE and ASPHALT --FILL-- | | | | | | | | | | | | |
| 713.6 | --AUGER SAMPLE-- | | | | | | | | | | | | |
| | Stiff to very stiff, brown and gray SILTY CLAY LOAM, little gravel --FILL-- | | | | | | | | | | | | |
| | | 2 | 1 | 4.5 | 2.50 | 19 | | | | | | | |
| | | 3 | 2 | 4.5 | 1.50 | 18 | | | | | | | |
| | | 4 | 3 | 4.5 | 1.00 | 25 | | | | | | | |
| 708.1 | Soft, gray SILTY CLAY, some organic matter --MUCK-- | | | | | | | | | | | | |
| | | 5 | 4 | 0.0 | 0.25 | 59 | | | | | | | |
| 703.6 | Medium stiff to very stiff, gray SILTY CLAY, trace gravel | | | | | | | | | | | | |
| | | 6 | 5 | 0.0 | 0.82 | 25 | | | | | | | |
| | | 7 | 6 | 0.0 | 1.31 | 23 | | | | | | | |
| | | 8 | 7 | 0.0 | 2.89 | 21 | | | | | | | |
| | | 9 | 8 | 0.0 | 3.60 | 23 | | | | | | | |
| | | 10 | 9 | 0.0 | 2.05 | 25 | | | | | | | |
| 691.6 | | 25 | 10 | 0.0 | 2.05 | 25 | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|--|-------------------|------------|---|----|-----|--|
| Begin Drilling | 04-19-2011 | Complete Drilling | 04-19-2011 | While Drilling | ▽ | DRY | |
| Drilling Contractor | WTS | Drill Rig | B-57 TMR | At Completion of Drilling | ▽ | DRY | |
| Driller | K&R | Logger | B. Wilson | Time After Drilling | NA | | |
| Checked by | CLM | | | Depth to Water | ▽ | NA | |
| Drilling Method | 2.25" SSA; Boring backfilled upon completion | | | The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | |

BORING LOG RWB-53-HA

WEI Job No.: 201-40-01
 Client: McDonough Associates Inc.
 Project: US 45, Segment 2
 Location: Ret. Wall RW-12, Cook Co., T36N, R12E

Datum: NGVD
 Elevation: 715.49 ft
 North: 1805253.17 ft
 East: 1115463.11 ft
 Station: 244+47.89
 Offset: 62.09 RT

| 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 (%) |
|------------------------|--|------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| 715.06 | 6-inch thick black CLAY LOAM --TOPSOIL-- | | | | | | | | | | | | |
| 713.7 | Very stiff, brown and gray CLAY LOAM, trace gravel --FILL-- | | | | | | | | | | | | |
| | Stiff to very stiff, brown SILTY CLAY, trace gravel --FILL-- | | | | | | | | | | | | |
| | | 1 | 1 | 2.50 | 2.50 | 19 | | | | | | | |
| | | 2 | 2 | 3.00 | 3.00 | 23 | | | | | | | |
| | | 3 | 3 | 3.50 | 3.50 | 21 | | | | | | | |
| | | 4 | 4 | 2.00 | 2.00 | 23 | | | | | | | |
| | | 5 | 5 | 3.00 | 3.00 | 15 | | | | | | | |
| | | 6 | 6 | 2.00 | 2.00 | 16 | | | | | | | |
| | | 7 | 7 | 1.50 | 1.50 | 16 | | | | | | | |
| 700.5 | | 15 | 15 | | | | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|------------|-------------------|------------|---|----|---------|--|
| Begin Drilling | 04-26-2011 | Complete Drilling | 04-26-2011 | While Drilling | ▽ | 2.50 ft | |
| Drilling Contractor | WTS | Drill Rig | Geoprobe | At Completion of Drilling | ▽ | NA | |
| Driller | N&B | Logger | N. Boddy | Time After Drilling | NA | | |
| Checked by | CLM | | | Depth to Water | ▽ | NA | |
| Drilling Method | Jackhammer | | | The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | |

BORING LOG RWB-54

WEI Job No.: 201-40-01
 Client: McDonough Associates Inc.
 Project: US 45, Segment 2
 Location: Ret. Wall RW-11, Cook Co., T36N, R12E

Datum: NGVD
 Elevation: 717.93 ft
 North: 1805411.61 ft
 East: 1115337.69 ft
 Station: 246+10.52
 Offset: 57.87 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 (%) |
|------------------------|--|------------|------------|-----------------------|----------|----------------------|------------------------|---------------------------|------------|------------|-----------------------|----------|----------------------|
| 717.64 | 4-inch thick ASPHALT --PAVEMENT-- | | | | | | | | | | | | |
| | Medium dense, gray CRUSHED STONE --BASE COURSE-- | | | | | | | | | | | | |
| 714.9 | Very stiff to hard, brown SILTY CLAY LOAM, trace gravel --FILL-- | | | | | | | | | | | | |
| | | 1 | 1 | 4.0 | 4.0 | 9 | | | | | | | |
| | | 2 | 2 | 5.99 | 5.99 | 16 | | | | | | | |
| | | 3 | 3 | 3.50 | 3.50 | 15 | | | | | | | |
| | | 4 | 4 | 3.85 | 3.85 | 19 | | | | | | | |
| 707.4 | Medium stiff to very stiff, gray SILTY CLAY | | | | | | | | | | | | |
| | | 5 | 5 | 0.75 | 0.75 | 20 | | | | | | | |
| 702.9 | | 15 | 15 | 2.13 | 2.13 | 25 | | | | | | | |

| GENERAL NOTES | | | | WATER LEVEL DATA | | | |
|---------------------|--|-------------------|------------|---|----|-----|--|
| Begin Drilling | 04-19-2011 | Complete Drilling | 04-19-2011 | While Drilling | ▽ | DRY | |
| Drilling Contractor | WTS | Drill Rig | B-57 TMR | At Completion of Drilling | ▽ | DRY | |
| Driller | K&R | Logger | B. Wilson | Time After Drilling | NA | | |
| Checked by | CLM | | | Depth to Water | ▽ | NA | |
| Drilling Method | 2.25" SSA; Boring backfilled upon completion | | | The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual. | | | |

Note:
 For retaining wall key plan see sheet 1.
 For typical wall details see sheet 2.
 See individual wall sheets for boring locations.