

BORING LOG 3RW4-B-2

WEI Job No.: 201-40-01

Client: **McDonough Associates Inc.**
 Project: **US 45, Segment 3**
 Location: **RW4, Cook Co., IL**

Datum: NGVD
 Elevation: 704.70 ft
 North: 1813111.47 ft
 East: 1115351.29 ft
 Station: 323+09.60
 Offset: 51.92 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
703.7	12-inch thick STONE (Rip Rap Drainage)						676.7						
703.7	Very stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	1	1	3 4 3	2.62	17	676.7	Loose to very dense, gray medium to coarse SAND, some gravel and rock fragments	11	3	6 8 10	3.28	15
		2	2	4 5 4	3.20	18			12	4	5 4 5	NP	17
		3	3	5 6 4	5.00	17			13	5	6 5 5	NP	10
		4	4	6 5 3	5.82	16			14	6	7 6 7	2.21	14
		5	5	6 6 3	4.02	17	668.2	Very stiff, gray SILTY CLAY, trace gravel	15	7	8 7 7	2.21	14
		6	6	6 6 3	4.43	16	664.7	Boring terminated at 40.00 ft	16	8	9 8 8	2.46	15
		7	7	4 7 7	4.79	14			17	9	8 9 11	3.85	15
		8	8	5 6 6	3.20	17			18	10	5 7 8	2.62	19
		9	9	6 6 3	3.77	15			19				
		10	10	3 3 10	3.36	16			20				

GENERAL NOTES

Begin Drilling **10-24-2011** Complete Drilling **10-24-2011**
 Drilling Contractor **Groff/WTS** Drill Rig **CME LL-60 ATV**
 Driller **K&K** Logger **B. Wilson** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA; Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **28.00 ft**
 At Completion of Drilling **18.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

BORING LOG 3RW4-B-3

WEI Job No.: 201-40-01

Client: **McDonough Associates Inc.**
 Project: **US 45, Segment 3**
 Location: **RW4, Cook Co., IL**

Datum: NGVD
 Elevation: 705.90 ft
 North: 1813156.73 ft
 East: 1115360.19 ft
 Station: 323+54.91
 Offset: 60.56 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
702.9	6-7.3-inch thick, brown SILTY CLAY --TOPSOIL--						680.1	Gray SAND					
702.9	Medium dense, brown and gray LOAM, little gravel	1	1	7 8 8	NP	17	680.1	Stiff, gray CLAY with 0.5-1.0 inch thick sand intercalations	11	1	10 10 10	1.50	23
		2	2	5 9 10	4.50	15	677.9	Very stiff, gray CLAY with SILT laminations	12	2	4 5 7	2.54	22
		3	3	7 11 12	3.94	19			13	3	4 4 6	1.56	28
		4	4	5 6 9	5.66	20			14	4	7 8 12	3.44	11
		5	5	8 10 13	5.90	17			15	5	4 6 10	6.15	19
692.2	Medium dense, brown and gray SILTY LOAM, trace gravel	6	6	4 6 7	NP	20	685.9	Boring terminated at 40.00 ft	16	6	3 4 6	NP	26
690.4	Very stiff, gray SILTY CLAY LOAM, trace gravel	7	7	4 6 7	2.71	16			17	7	3 4 6	NP	26
		8	8	4 6 18	2.46	15			18	8	3 4 6	NP	16
		9	9	8 9 11	3.85	15			19	9	3 3 3	NP	9
		10	10	5 7 8	2.62	19			20	10	3 3 6	1.15	15

GENERAL NOTES

Begin Drilling **09-28-2011** Complete Drilling **09-28-2011**
 Drilling Contractor **WTS** Drill Rig **D-50 TMR**
 Driller **K&K** Logger **B. Wilson** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA; Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **24.75 ft**
 At Completion of Drilling **28.75 ft**
 Time After Drilling **NA**
 Depth to Water **NA**

BORING LOG 3RW5-B-1

WEI Job No.: 201-40-01

Client: **McDonough Associates Inc.**
 Project: **US 45, Segment 3**
 Location: **RW5, Cook Co., IL**

Datum: NGVD
 Elevation: 706.20 ft
 North: 1814080.99 ft
 East: 1115254.59 ft
 Station: 332+80.13
 Offset: 42.60 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
685.94	6-10.94-inch thick, brown SILTY CLAY --TOPSOIL--						680.7	Loose, gray LOAM, trace gravel					
685.94	Stiff to very stiff, brown and gray CLAY LOAM, some gravel	1	1	3 3 4	1.23	21	680.7		11	4 5 4	NP	14	
		2	2	3 3 4	1.50	26	677.2	Stiff to very stiff, gray SILTY CLAY, trace to some gravel	12	3	5 6 6	1.56	16
		3	3	3 3 5	NA				13	4 5 6	2.30	15	
697.2-2.0P	Very stiff to hard, brown and gray SILTY CLAY, trace gravel	4	4	3 4 8	3.00	18			14	6 6 8	1.23	15	
		5	5	7 12 15	6.72	20			15	4 6 8	1.64	12	
		6	6	4 7 10	6.15	19			16	3 4 6	NP	26	
		7	7	3 4 6	NP	26			17	3 4 6	NP	26	
		8	8	3 4 6	NP	16			18	3 4 6	NP	16	
685.7	Loose, gray, fine to medium SAND	9	9	3 3 3	NP	9	659.7	Medium dense, gray SILTY LOAM, little gravel	19	7	9 12	NP	11
683.2	Stiff, gray SILTY CLAY LOAM, trace gravel	10	10	3 3 6	1.15	15	656.2	Boring terminated at 50.00 ft	20				

GENERAL NOTES

Begin Drilling **09-29-2011** Complete Drilling **09-29-2011**
 Drilling Contractor **WTS** Drill Rig **D-50 TMR**
 Driller **K&K** Logger **B. Wilson** Checked by **C. Marin**
 Drilling Method **3.25" IDA HSA; Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling **15.50 ft**
 At Completion of Drilling **25.00 ft**
 Time After Drilling **NA**
 Depth to Water **NA**