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BORING LOG 3D-B-04

WEI Job No.: 201-40-01

Client: McDonough Associates Inc.
Project: US 45, Segment 3
Location: Ret. Wall 016-Z005, Cook Co., T36N, R12E

Datum: NGVD
Elevation: 674.08 ft
North: 1811456.06 ft
East: 1115361.12 ft
Station: 306+53.17
Offset: 54.54 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	672.6	18-inch thick, brown SILTY CLAY						
		--FILL--						
		Medium dense to dense, gray CRUSHED STONE (stone size up to 5-inch)			1	7 15 12	NP	7
		--FILL--	5		2	18 11 20	NP	
					3	7 8 11	NP	13
			10		4	12 10 16	NP	
					5	15 9 7	NP	6
			15		6	7 6 7	NP	
	658.1	Very soft, black and gray SILTY CLAY Organic Content=5.5%			7	0 0 0	< 0.25 P	56
			20		8	0 0 0	< 0.25 P	40
					9	0 0 0	< 0.25 P	37
	651.1	Stiff, gray SILTY CLAY, trace gravel	25		10	5 5 6	1.23 B	20
	646.6	Boring terminated at 27.50 ft			11	7 6 10	1.31 B	19

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	10-19-2010	Complete Drilling	10-19-2010	While Drilling	1.50 ft
Drilling Contractor	WTS	Drill Rig	D 50 ATV	At Completion of Drilling	5.00 ft
Driller	K&K	Logger	B. Wilson	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled upon completion	Checked by	C. Marin	Depth to Water	NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2014001.GPJ WANGENG.GDT 9/30/11

BORING LOG 3D-B-05

WEI Job No.: 201-40-01

Client: McDonough Associates Inc.
Project: US 45, Segment 3
Location: Ret. Wall 016-Z005, Cook Co., T36N, R12E

Datum: NGVD
Elevation: 673.42 ft
North: 1811590.38 ft
East: 1115360.40 ft
Station: 307+87.48
Offset: 55.43 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	672.9	8-inch thick, brown SILTY CLAY LOAM						
		--FILL--						
		Medium dense, gray CRUSHED STONE (stone size up to 5-inch)			1	6 12 13	NP	
		--FILL--	5		2	15 13 12	NP	
					3	20 16 13	NP	10
			10		4	6 9 3	NP	
					5	14 9 8	NP	
			15		6	9 9 8	NP	18
	656.9	Very soft, black and gray SILTY CLAY LOAM			7	3 0 0	< 0.25 P	30
		--L_L(%)=36, P_L(%)=19-- --%Gravel=0.2-- --%Sand=6.6-20 --%Silt=68.6-- --%Clay=24.6-- --A-6 (16)--	20		8	0 0 0	0.16 B	34
					9	2 3 5	< 0.25 P	22
	650.4	Stiff, brown SILTY CLAY	25		10	3 5 6	1.48 B	20
	648.4	Boring terminated at 25.00 ft						

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	10-18-2010	Complete Drilling	10-18-2010	While Drilling	2.00 ft
Drilling Contractor	WTS	Drill Rig	D 50 ATV	At Completion of Drilling	3.00 ft
Driller	K&K	Logger	C. Davis	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled upon completion	Checked by	C. Marin	Depth to Water	NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 2014001.GPJ WANGENG.GDT 9/30/11

BORING LOG 3D-B-06

WEI Job No.: 201-40-01

Client: McDonough Associates Inc.
Project: US 45, Segment 3
Location: Ret. Wall 016-Z005, Cook Co., T36N, R12E

Datum: NGVD
Elevation: 673.72 ft
North: 1811677.21 ft
East: 1115361.28 ft
Station: 308+74.30
Offset: 57.34 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	673.4	4-inch thick, SILTY CLAY LOAM						
		--FILL--						
		Medium dense, gray CRUSHED STONE (stone size up to 5-inch)			1	9 7 9	NP	
		--FILL--	5		2	9 8 7	NP	
					3	15 7 12	NP	
			10		4	8 10 12	NP	
					5	30 16 11	NP	
			15		6	21 13 12	NP	18
	658.2	Very soft, black and gray SILTY CLAY			7	0 0 0	0.16 B	34
			20		8	0 0 0	0.16 B	28
	653.2	Stiff to very stiff, brown SILTY CLAY			9	3 4 6	1.80 B	20
			25		10	4 6 10	2.21 B	20
	643.7	Boring terminated at 30.00 ft			11	4 8 11	1.80 P	19
			30		12	5 7 10	3.28 B	18

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	10-18-2010	Complete Drilling	10-18-2010	While Drilling	3.00 ft
Drilling Contractor	WTS	Drill Rig	D 50 ATV	At Completion of Drilling	2.50 ft
Driller	K&K	Logger	C. Davis	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled upon completion	Checked by	C. Marin	Depth to Water	NA

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WANGENGINC 2014001.GPJ WANGENG.GDT 9/30/11

URS
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FILE NAME = 016Z005-60M62-014-bor.dgn	USER NAME = ersalan_khan	DESIGNED - WEI	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - AMK	REVISED -	
	PLOT SCALE = 0:2.0000 '' / in.	DRAWN - PMH	REVISED -	
	PLOT DATE = 3/22/2013	CHECKED - AMK	REVISED -	

SOIL BORINGS 2
STRUCTURE NO. 016-Z005
SHEET NO. 14 OF 21 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-5	COOK	778	433
		CONTRACT NO. 60M62		
	ILLINOIS	FED. AID PROJECT		