Wang Engineering, Inc.
Consulting Geotechnical and Environmental Engineers
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BORING LOG 176B-1

WEI Job No.: 555-13-11

Client: IDOT District One
Project: IL RT 176 over East Skokie Ditch
Location: T-44N, R-12E, Sect 20, Lake County

Datum: NGVD
Elevation: 671.99 ft
North: 2044817.49 ft
East: 1111200.39 ft
Station: 1159+15
Offset: 10LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	671.7	6-inch thick ASPHALT over 10-inch thick CONCRETE --PAVEMENT--						
	669.5	Loose, brown SANDY LOAM --BASE COURSE--			1	3 4 3	NP	13
		Very soft, brown SANDY CLAY LOAM --FILL--	5		2	1 2 1	<0.25 P	16
	665.6	Very soft, black CLAY LOAM			3	0 2 2	<0.25 P	17
	663.2	Very loose, gray SANDY CLAY LOAM, trace gravel			4	0 0 4	0.25 P	22
	662.2	Loose, gray SILT	10		5	1 3 3	NP	18
	659.0	Stiff to hard, gray SILTY CLAY A-6 (16) GRAVEL= 0% SAND= 2.7% SILT= 67.2% CLAY= 30.1% LL=33, PI=17	15		6	2 3 3	1.31 B	22
					7	3 4 4	2.54 B	11
			20		8	4 6 8	4.18 B	15
					9	4 6 9	3.94 B	17
			25		10	4 6 9	3.53 B	16
	632.0	Boring terminated at 40.00 ft	30		11	4 7 10	5.41 B	17
					12	4 6 7	3.12 B	23
			35		13	4 6 7	2.75 B	21
			40		14	7 8 9	3.20 B	20
			45					
			50					

GENERAL NOTES

Begin Drilling: 11-24-2009 Complete Drilling: 11-24-2009
Drilling Contractor: WTS Drill Rig: Mobile B-57 TMR
Driller: K&J Logger: F.Bozga Checked by: N. Davis
Drilling Method: 3.25 IDA HSA; 140# Mobile Automatic Hammer

WATER LEVEL DATA

While Drilling: ▽ 9.50 ft
At Completion of Drilling: ▼ 27.00 ft
Time After Drilling: NA
Depth to Water: ▽ NA

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

WANGENGINC 555131.GPJ WANGBHLG.GDT 12/17/09

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BORING LOG 176B-2

WEI Job No.: 555-13-11

Client: IDOT District One
Project: IL RTE 176 over East Skokie Ditch
Location: T-44N, R-12E, Sect 20, Lake County

Datum: NGVD
Elevation: 671.90 ft
North: 2044800.92 ft
East: 1111246.89 ft
Station: 1159+65
Offset: 10RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	671.3	7-inch thick ASPHALT --PAVEMENT--						
	670.1	Loose, brown, GRAVELLY SAND --BASE COURSE--			1	7 5 3	0.25 P	20
		Very soft to soft, brown SANDY CLAY LOAM --FILL--	5		2	3 2 2	0.25 P	21
	666.4	Very soft, black SANDY CLAY LOAM, trace organic matter A-6 (2) GRAVEL= 6.6% SAND= 54.2% SILT= 20.2% CLAY= 19.1% LL=30, PI=16			3	1 1 1	<0.25 P	21
	662.6	Loose, gray GRAVELLY SAND	10		4	0 1 2	<0.25 P	46
	660.6	Loose, gray SILT			5	2 4 3	NP	17
	658.9	Stiff to hard, gray SILTY CLAY	15		6	1 2 4	1.56 B	17
					7	3 6 9	4.35 B	18
			20		8	4 6 9	4.26 B	17
					9	3 4 7	3.20 B	17
			25		10	3 4 5	2.71 B	17
	629.9	Very loose to medium dense, gray GRAVELLY SANDY LOAM to GRAVELLY LOAM	30		11	3 4 5	2.71 B	18
					12	3 4 5	2.13 B	20
			35		13	8 12 6	2.50 P	21
			40		14	6 9 11	4.43 B	19
			45		15	0 0 0	NP	22
	621.9	GRAVEL= 43.6% SILT AND CLAY= 7.4% Boring terminated at 50.00 ft	50		16	6 9 9	NP	10

GENERAL NOTES

Begin Drilling: 11-24-2009 Complete Drilling: 11-24-2009
Drilling Contractor: WTS Drill Rig: Mobile B-57 TMR
Driller: K&J Logger: F.Bozga Checked by: N. Davis
Drilling Method: 3.25 IDA HSA; 140# Mobile Automatic Hammer

WATER LEVEL DATA

While Drilling: ▽ 9.50 ft
At Completion of Drilling: ▼ washed
Time After Drilling: NA
Depth to Water: ▽ NA

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

WANGENGINC 555131.GPJ WANGENG.GDT 12/28/10

Primera
180 N. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P.312-606-0610 F.312-606-0615

USER NAME =		DESIGNED - JXH	REVISED -
		CHECKED - JW	REVISED -
PLOT SCALE =		DRAWN - JLS	REVISED -
PLOT DATE =		CHECKED - JXH/JW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NUMBER 049-0238 STATION 1159+35.95
SHEET NO. S-15 OF S-15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	C-B-I	LAKE	61	43
		CONTRACT NO. 60J67		
DATE: 01-10-2011	ILLINOIS	FED. AID PROJECT		