

Wang Engineering
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BORING LOG CB-01

WE1 Job No.: 722-23-02

Client: MACTEC Engineering and Consulting, Inc.
 Project: Illinois Route 21 (Milwaukee Avenue)
 Location: T44N R11E and T45N R11E

Datum: NGVD
 Elevation: 659.00 ft
 North: 2060413.93 ft
 East: 1085460.16 ft
 Station: 206+93.69
 Offset: 75.53 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 (%)
657.0	Very stiff, black CLAY LOAM --TOPSOIL--	1	2	3	3.00	30							
657.0	Very stiff, dark brown to black CLAY LOAM	2	2	3	2.00	26							
654.5	Soft, dark gray SILTY CLAY LOAM	3	2	1	0.33	37							
652.0	Stiff, brown to dark gray CLAY	4	2	3	1.15	21							
650.5	Brown SILTY LOAM	5	2	4									
649.5	Loose, brown, coarse SAND	6	2	4									
647.0	Medium dense, brown and gray SANDY GRAVEL	7	9	8									
640.0	Boring terminated at 19.00 ft	8	7	10									

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-24-2010	Complete Drilling	11-24-2010
Drilling Contractor	STS	Drill Rig	D-50 TMR
Driller	B&S	Logger	A. Kurnia
Checked by	A. Bohac	Time After Drilling	NA
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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BORING LOG CB-02

WE1 Job No.: 722-23-02

Client: MACTEC Engineering and Consulting, Inc.
 Project: Illinois Route 21 (Milwaukee Avenue)
 Location: T44N R11E and T45N R11E

Datum: NGVD
 Elevation: 661.00 ft
 North: 2060426.08 ft
 East: 1085437.82 ft
 Station: 206+92.77
 Offset: 50.13 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 (%)
657.3	Very stiff to hard, dark brown CLAY LOAM with trace gravel --FILL--	1	4	5	4.50	18							
657.3	Soft, black CLAY LOAM --BURIED TOPSOIL--	2	1	3	2.00	17							
654.0	Very soft, gray SILTY CLAY LOAM with some organic matter	3	1	2	0.25	26							
654.0	Very soft, gray SILTY CLAY LOAM with some organic matter	4	0	0	0.25	39							
649.0	Medium stiff, gray CLAY	5	0	0	0.25	43							
647.8	Medium dense to dense, brown SAND and GRAVEL to SANDY GRAVEL	6	7	15	0.50	19							
644.0	Medium dense, brown SAND	7	7	9		9							
642.0	Boring terminated at 19.00 ft	8	7	10		15							

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-23-2010	Complete Drilling	11-23-2010
Drilling Contractor	STS	Drill Rig	D-50 TMR
Driller	B&J	Logger	A. Kurnia
Checked by	A. Bohac	Time After Drilling	NA
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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BORING LOG CB-03

WE1 Job No.: 722-23-02

Client: MACTEC Engineering and Consulting, Inc.
 Project: Illinois Route 21 (Milwaukee Avenue)
 Location: T44N R11E and T45N R11E

Datum: NGVD
 Elevation: 660.00 ft
 North: 2060450.98 ft
 East: 1085386.06 ft
 Station: 206+93.57
 Offset: 07.33 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 (%)
658.0	24-inch thick, black and brown CLAY LOAM --TOPSOIL--	1	2	1	3.50	36							
658.0	Stiff to hard, brown SANDY CLAY LOAM	2	3	2	4.00	9							
654.0	Medium dense, brown SAND	3	3	5	1.75	11							
653.0	Loose to medium dense, brown SILTY LOAM	4	3	4		25							
648.0	Loose, brown SAND	5	3	4	1.15	21							
644.5	Medium dense, brown SANDY GRAVEL	6	3	3		21							
643.0	Medium dense, brown SAND	7	5	6		16							
641.0	Boring terminated at 19.00 ft	8	3	5		10							

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	11-23-2010	Complete Drilling	11-23-2010
Drilling Contractor	STS	Drill Rig	D-50 TMR
Driller	B&J	Logger	A. Kurnia
Checked by	A. Bohac	Time After Drilling	NA
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

SOIL BORING LOGS
STRUCTURE NO. 049-0240
OUTLET NO. 16



CHRISTIAN-ROGE & ASSOCIATES, INC.

FILE NAME = D:\68993-04-soil_boring_logs.dgn	USER NAME =	DESIGNED - J.C.N./B.N.S.	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 049-0240	F.A.P. R.T.E. = 330	SECTION = 128R-3	COUNTY = LAKE	TOTAL SHEETS = 518	SHEET NO. = 364
PLOT SCALE =	DRAWN - F.M.	REVISIONS -	CONTRACT NO. 60953							
PLOT DATE =	CHECKED - B.N.S./J.C.N.	REVISIONS -	ILLINOIS FED. AID PROJECT							
SHEET NO. SC3-4 OF SC3-4 SHEETS										