

**BORING NO. AB-17 (3 OF 3)**

**BORING NO. AB-18 (1 OF 2)**

**BORING NO. AB-18 (2 OF 2)**

**BORING LOG AB-17** Page 3 of 3

Wang Engineering, INC. Consulting Geotechnical and Environmental Engineers  
wangeng3@wangeng.com  
100 Fairbank Street  
Addison, IL 60101  
Telephone: 630 458-0700  
Fax: 630 458-0900

WEI Job No.: 255-08-01  
Client: American Consulting Engineers  
Project: FAI 80/94, I-294 to US 41  
Location: s13 T36N R10W & s29 R15E T36N

Datum: NGVD  
Elevation: 191.12 m  
North: 545266.08 m  
East: 367829.44 m  
Station: 8+434.07  
Offset: 19.82 RT

**BORING LOG AB-18** Page 1 of 2

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Client: American Consulting Engineers  
Project: FAI 80/94, I-294 to US 41  
Location: s13 T36N R10W & s29 R15E T36N

Datum: NGVD  
Elevation: 180.23 m  
North: 545239.56 m  
East: 367893.57 m  
Station: 8+503.38  
Offset: 23.36 RT

**BORING LOG AB-18** Page 2 of 2

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Elevation: 180.23 m  
North: 545239.56 m  
East: 367893.57 m  
Station: 8+503.38  
Offset: 23.36 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blow/150 mm)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blow/150 mm)	Moisture Content (%)
191.12	Dark brown SILTY LOAM	31	29	9	526	191.12	Dark brown SILTY LOAM	31	29	9	526
	Very stiff, gray CLAY	32	16	20	14		Very stiff, gray CLAY	32	16	20	14
	Very loose, gray SILTY LOAM	33	15	23	746		Very loose, gray SILTY LOAM	33	15	23	746
	Loose, gray SANDY LOAM	34	15	23	60		Loose, gray SANDY LOAM	34	15	23	60
	Very soft, gray, organic CLAY LOAM	35	15	23	60		Very soft, gray, organic CLAY LOAM	35	15	23	60
	Loose, gray SILT	36	15	23	60		Loose, gray SILT	36	15	23	60
	Stiff, gray SILTY CLAY	37	15	23	60		Stiff, gray SILTY CLAY	37	15	23	60
	Medium stiff to stiff, gray CLAY	38	15	23	60		Medium stiff to stiff, gray CLAY	38	15	23	60

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blow/150 mm)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blow/150 mm)	Moisture Content (%)
180.23	Dark brown SILTY LOAM	8	11	2	94	180.23	Dark brown SILTY LOAM	8	11	2	94
	Very stiff, gray CLAY	9	11	2	94		Very stiff, gray CLAY	9	11	2	94
	Stiff to very stiff, gray CLAY	10	12	3	189		Stiff to very stiff, gray CLAY	10	12	3	189
	Loose, gray SANDY LOAM	11	12	3	189		Loose, gray SANDY LOAM	11	12	3	189
	Very soft, gray, organic CLAY LOAM	12	13	4	172		Very soft, gray, organic CLAY LOAM	12	13	4	172
	Loose, gray SILT	13	13	4	172		Loose, gray SILT	13	13	4	172
	Stiff, gray SILTY CLAY	14	14	3	236		Stiff, gray SILTY CLAY	14	14	3	236
	Medium stiff to stiff, gray CLAY	15	14	3	236		Medium stiff to stiff, gray CLAY	15	14	3	236
	Hard, gray SILTY CLAY to SILTY CLAY LOAM	16	15	4	228		Hard, gray SILTY CLAY to SILTY CLAY LOAM	16	15	4	228
		17	15	4	228			17	15	4	228
		18	15	4	228			18	15	4	228
		19	15	4	228			19	15	4	228
		20	15	4	228			20	15	4	228
		21	15	4	228			21	15	4	228
		22	15	4	228			22	15	4	228
		23	15	4	228			23	15	4	228

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blow/150 mm)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blow/150 mm)	Moisture Content (%)
180.23	Medium stiff, gray SILTY CLAY	17	17	6	487	180.23	Medium stiff, gray SILTY CLAY	17	17	6	487
		18	18	11	487			18	18	11	487
		19	19	7	569			19	19	7	569
		20	20	8	722			20	20	8	722
		21	21	16	565			21	21	16	565
		22	22	19	565			22	22	19	565
		23	23	19	565			23	23	19	565

**GENERAL NOTES**

Begin Drilling 01-24-2002 Complete Drilling 01-25-2002  
Drilling Contractor TSC Drill Rig CME 75  
Driller CAJ Logger B. Fugiel checked by N. Davis  
Drilling Method Mud Rotary; Grouted upon completion

**WATER LEVEL DATA**

While Drilling    
At Completion of Drilling    
Time After Drilling - hours   
Depth to Water  m   
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**GENERAL NOTES**

Begin Drilling 01-08-2002 Complete Drilling 01-08-2002  
Drilling Contractor TSC Drill Rig B-61  
Driller GAD Logger B. Fugiel checked by B. Fugiel  
Drilling Method Mud Rotary; Grouted after final water reading

**WATER LEVEL DATA**

While Drilling  1.83 m   
At Completion of Drilling  1.68 m   
Time After Drilling 24 hours   
Depth to Water  1.68 m   
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**GENERAL NOTES**

Begin Drilling 01-08-2002 Complete Drilling 01-08-2002  
Drilling Contractor TSC Drill Rig B-61  
Driller GAD Logger B. Fugiel checked by B. Fugiel  
Drilling Method Mud Rotary; Grouted after final water reading

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Depth to Water  1.68 m   
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DESIGNED	BHS
CHECKED	KFA
DRAWN	CAK MJB
CHECKED	GSP

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. ROUTE 80/94 (BORMAN EXPRESSWAY)  
OVER LITTLE CALUMET RIVER & N.L.C.T.D. R.O.W.

**BORING LOGS (5 OF 10)**  
**SECTION 2626.2-R-1**  
**LAKE COUNTY, INDIANA**  
**STATION 8+470.000**  
**STRUCTURE NO. I-80-1-8460 (EB & WB)**  
DATE 07/04 (016-1003 & 016-1004)

**AMERICAN CONSULTING ENGINEERS**