STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EarthTech
A tyco International Ltd. Company

F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	109 BR	La Salle	351	288
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 88
89 SHEETS

Contract # 66607

Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 1

Date 4/27/05

ROUTE IL 170 DESCRIPTION BRIDGE OVER ILLINOIS RIVER LOGGED BY LM-IDOT
SECTION LOCATION SW 1/4, SEC. 25, TWP. 33N, RNG. 5E, 3rd PM
COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 050-0070 EXISTING
Station 79+05

BORING NO. 6a Southside
Station 87+10
Offset 10.00ft Rt
Ground Surface Elev. 493.54 ft

Surface Water Elev. 483.41 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Augered Brown Fine/Coarse Sand & Gravel Fill Loamy in Top 6"			
491.54			
Loose Brown Fine/Coarse Sand w/ upto Coarse Gravel w/ layers Dark Brown Sandy Loam Fill	4		12.7
	4		
	3		
489.54			
Stiff Black/Brown Sandy Clay Loam/ Sandy Loam with Gravel Pieces	1		
	2	1.5	15.6
Sand Cave in @ 7.5' AAR	5	P	
	4		
485.54			
Loose Brown Fine/Coarse Sand with Minor Gravel Free water @ 12'	4		
	2		
-10	1		
Washed sample at 14'-16'	4		16.7
	5		
	4		
	4		22.2
	5		
-15	3		
	4		21.0
	5		
477.04			
Medium Brown Fine/ Coarse Sand with Minor Gravel	5		
Washed sample 17'-24'	7		19.3
	7		
-20	5		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Medium Brown Fine/ Coarse Sand with Minor Gravel	5		19.9
Washed sample 17'-24' (continued)	8		
	5		
469.54			
Dense Brown Fine/ Coarse Sand with Minor Gravel	4		
Washed sample from 24'-27'	13		23.2
	23		
466.54			
Medium Brown Sandy/Coarse Fine Gravel	5		
Washed sample from 27'-31'	8		11.1
	10		
-30	24		
	22		9.1
462.54	14		
Hard Gray Shale weathered at surface			
458.54			
End of Boring			
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 2

Date 4/19/05

ROUTE IL 170 DESCRIPTION BRIDGE OVER ILLINOIS RIVER LOGGED BY LM-IDOT
SECTION LOCATION SW 1/4, SEC. 25, TWP. 33N, RNG. 5E, 3rd PM
COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 050-0070 EXISTING
Station 79+05

BORING NO. 7a Southside
Station 88+05
Offset 12.00ft Rt
Ground Surface Elev. 499.08 ft

Surface Water Elev. 483.41 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Augered Brown Sand			
496.58			
Medium Brown Fine/Coarse Sand w/ minor Sandy Loam Layers (Fill)	6		
	7		9.0
	7		
-5	5		
493.08			
Loose Brown Fine/Coarse Sand (sub round to sub angular) clean	4		4.9
	3		
	4		3.8
	5		
-15			
Medium Brown Fine/Coarse Sand (Clean) Free water @ 13.5	3		
	6		2.9
Sand Cave in @ 12.5' AAR	7		
	5		
	7		18.4
	11		
484.08			
-15			
Medium Brown Fine/Coarse Sand w/ Fine/Coarse Gravel	3		
	5		15.8
Sample washed out at 20'	7		
	4		
	5		16.9
-20	5		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Medium Brown Fine/Coarse Sand w/ Fine/Coarse Gravel	4		
	8		16.6
Sample washed out at 20' (continued)	11		
478.08			
Dense Brown Fine/Coarse Sand w/ Fine/ Coarse Gravel & Pieces Red Weathered Shale			
-25			
	12		
	15		15.8
	21		
470.08			
Very Dense Brown Fine Sand w/ minor Coarse Gravel			
-30			
Sampled washed from 30'-33	2		
	21		20.5
	45		
466.08			
Very Dense Brown Fine Sand to Coarse Gravel (potential cobble size)			
-35			
Sample washed from 35'-46.5'	4		
	43		12.6
	100		
-40			
459.08			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 2 of 2

Date 4/19/05

ROUTE IL 170 DESCRIPTION BRIDGE OVER ILLINOIS RIVER LOGGED BY LM-IDOT
SECTION LOCATION SW 1/4, SEC. 25, TWP. 33N, RNG. 5E, 3rd PM
COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 050-0070 EXISTING
Station 79+05

BORING NO. 7a Southside
Station 88+05
Offset 12.00ft Rt
Ground Surface Elev. 499.08 ft

Surface Water Elev. 483.41 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Hard Gray/Green/Red Weathered reworked Shale	15		
	22		15.7
	30		
457.08			
Hard Gray Calcareous Shale w/ Limestone Layers/ Beds			
-45			
454.08	100/5"		
			8.4
End of Boring			
-50			
-55			
-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

DESIGNED	- DEV
CHECKED	- RJC
DRAWN	- JHR
CHECKED	- RJC

SOIL BORING LOGS #6a & #7a
IL. 170 F.A.P. 786 OVER
ILLINOIS RIVER AT SENECA
PUBLIC WATERS
LA SALLE COUNTY, SECTION 109 BR
STATION 79+04.42
STRUCTURE NO. 050-0246