

SCHLEEDE-HAMPTON ASSOCIATES, INC. CONSULTING ENGINEERS

RECORD OF SUBSURFACE EXPLORATION

BORING AB-1 PAGE 1 OF 1

PROJECT NAME: MAIN STREET BRIDGE
 DATE STARTED: 5/14/02
 DATE COMPLETED: 5/14/02
 DRILLER: SE BORING METHOD: CFA
 SITE LOCATION: CARPENTERSVILLE ILLINOIS
 GROUNDWATER AT COMPLETION: 8.5'
 GROUNDWATER AFTER HOLE CAVED: 2.4' AT

ELEV.	DESCRIPTION	DEPTH	SAMPLE	N	Qu	W	Remarks
8.5'	4 1/2" AC 4 1/2" x 8" Brick 8" x 10" Sand 10"-12" PCC RAP, trace Cinders large slag Adjacent Sanitary Sewer	0	AU-1		11		
8	Dark Brown SAND (f. trace Gravel, A-3) FILL	0	AU-2		11		
7	Cinders and fine Sand, trace Brick, FILL	0					
10	Black Clay LOAM, A-7-6	10	AU-3		0.2	33	
10	Grey CLAY, A-7-6	10	AU-4		0.75	26	
10	End of Boring @ 13.0'	10					

SYMBOLS:
 N: STANDARD PENETRATION, BLOWSP. FT.
 Qu: UNCONFINED COMPRESSIVE STRENGTH, TONS/SQ. FT.
 W: WATER CONTENT, %
 LI: LIQUID LIMIT, %
 PL: PLASTICITY INDEX, %
 DE: NATURAL DRY DENSITY, LBS./CU. FT.
 G: HAND PENETROMETER, TONS/SQ. FT.
 GW: GROUNDWATER
 MC: MUD DRILLING

SAMPLE DESIGNATION:
 SS: DRIVEN SPLIT SPOON 1 3/8" I.D., 2" O.D.
 ST: PRESSURE SPLIT SPOON
 AU: AUGER SAMPLE
 RC: ROCK CORE - NMM
 BORING METHOD: HSA - HOLLOW STEM AUGER
 CFA: CONTINUOUS FLIGHT AUGER
 C: CASING
 MD: MUD DRILLING

NOTE: The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

SCHLEEDE-HAMPTON ASSOCIATES, INC. CONSULTING ENGINEERS

RECORD OF SUBSURFACE EXPLORATION

BORING AB-2 PAGE 1 OF 1

PROJECT NAME: MAIN STREET BRIDGE
 DATE STARTED: 5/14/02
 DATE COMPLETED: 5/14/02
 DRILLER: SE BORING METHOD: CFA
 SITE LOCATION: CARPENTERSVILLE ILLINOIS
 GROUNDWATER AT COMPLETION: 8.5'
 GROUNDWATER AFTER HOLE CAVED: AT

ELEV.	DESCRIPTION	DEPTH	SAMPLE	N	Qu	W	Remarks
8.5'	4 1/2" AC 4 1/2" x 8" Brick 8" x 10" Sand 10"-12" PCC RAP, trace Cinders large slag Adjacent Sanitary Sewer	0	AU-1		11		
8	Dark Brown SAND (f. trace Gravel, A-3) FILL	0	AU-2		11		
10	Black Clay LOAM, A-7-6	10	AU-3		0.2	33	
10	Grey CLAY, A-7-6	10	AU-4		0.75	26	
10	End of Boring @ 13.0'	10					

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 BORING METHOD: HSA - HOLLOW STEM AUGER
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RECORD OF SUBSURFACE EXPLORATION

BORING AB-3 PAGE 1 OF 1

PROJECT NAME: MAIN STREET BRIDGE
 DATE STARTED: 5/14/02
 DATE COMPLETED: 5/14/02
 DRILLER: SE BORING METHOD: CFA
 SITE LOCATION: CARPENTERSVILLE ILLINOIS
 GROUNDWATER AT COMPLETION: 7.2'
 GROUNDWATER AFTER HOLE CAVED: AT

ELEV.	DESCRIPTION	DEPTH	SAMPLE	N	Qu	W	Remarks
8.5'	4 1/2" AC 4 1/2" x 8" Brick 8" x 10" Sand 10"-12" PCC RAP, trace Cinders large slag Adjacent Sanitary Sewer	0	AU-1		11		
8	Dark Brown SAND (f. trace Gravel, A-3) FILL	0	AU-2		11		
10	Black Clay LOAM, A-7-6	10	AU-3		0.2	33	
10	Grey CLAY, A-7-6	10	AU-4		0.75	26	
10	End of Boring @ 10.0'	10					

SYMBOLS:
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 MC: MUD DRILLING

SAMPLE DESIGNATION:
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RECORD OF SUBSURFACE EXPLORATION

BORING AB-4 PAGE 1 OF 1

PROJECT NAME: MAIN STREET BRIDGE
 DATE STARTED: 5/14/02
 DATE COMPLETED: 5/14/02
 DRILLER: SE BORING METHOD: CFA
 SITE LOCATION: CARPENTERSVILLE ILLINOIS
 GROUNDWATER AT COMPLETION: 7.2'
 GROUNDWATER AFTER HOLE CAVED: AT

ELEV.	DESCRIPTION	DEPTH	SAMPLE	N	Qu	W	Remarks
8.5'	4 1/2" AC 4 1/2" x 8" Brick 8" x 10" Sand 10"-12" PCC RAP, trace Cinders large slag Adjacent Sanitary Sewer	0	AU-1		11		
8	Dark Brown SAND (f. trace Gravel, A-3) FILL	0	AU-2		11		
10	Black Clay LOAM, A-7-6	10	AU-3		0.2	33	
10	Grey CLAY, A-7-6	10	AU-4		0.75	26	
10	End of Boring @ 10.0'	10					

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 RC: ROCK CORE - NMM
 BORING METHOD: HSA - HOLLOW STEM AUGER
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SCHLEEDE-HAMPTON ASSOCIATES, INC. CONSULTING ENGINEERS

WATER MAIN BORING LOG

PROJECT: 84361 WATER MAIN CROSSING AT THE FOX RIVER
 DATE: 8/4/04
 ROUTE: MAIN STREET - CARPENTERSVILLE, ILLINOIS
 BORING BY: GJS
 SECTION: MAIN STREET BRIDGE OVER FOX RIVER STATION: 110+70 CHECKED BY: WJW

DEPTH (N/6')	Qu (tsf)	W (%)	DESCRIPTION	DEPTH (N/6')	Qu (tsf)	W (%)
0			GROUND SURFACE EL. 719.0 Dark Brown Silty CLAY/TOPSOIL FILL	0		
1	2	16	Brown SAND and GRAVEL, A-2 FILL, slightly dense	1	2	16
2	1	43	Black Organic PEAL, A-8 soft	2	1	43
3	6	16	Brown SAND and GRAVEL, A-1 medium dense	3	6	16
4	5	15	Dolomitic Limestone Bedrock	4	5	15
5			Run #1: 11.5'-16.5' Recovery = 100% RQD = 15.8% Qu = 12,400 psi @ 13.0'	5		
6			Run #2: 16.5'-21.5' Recovery = 100% RQD = 20.8% Qu = 12,100 psi @ 21.0'	6		

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WATER MAIN BORING LOG

PROJECT: 84361 WATER MAIN CROSSING AT THE FOX RIVER
 DATE: 8/3/04
 ROUTE: MAIN STREET - CARPENTERSVILLE, ILLINOIS
 BORING BY: GJS
 SECTION: MAIN STREET BRIDGE OVER FOX RIVER STATION: 111+87 CHECKED BY: WJW

DEPTH (N/6')	Qu (tsf)	W (%)	DESCRIPTION	DEPTH (N/6')	Qu (tsf)	W (%)
0			GROUND SURFACE EL. 725.8 Asphalt, PCC Bridge Deck	0		
1			Dolomitic Limestone Bedrock	1		
2			Run #1: 20'-30' Recovery = 100% RQD = 64.6% Qu = 14,000 psi @ 22.0' Qu = 4,140 psi @ 28.0'	2		
3			open air space	3		
4			Water Level in Fox River	4		
5			Black SAND and GRAVEL, A-2 medium dense	5		
6			Dolomitic Limestone Bedrock	6		

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WATER MAIN BORING LOG

PROJECT: 84361 WATER MAIN CROSSING AT THE FOX RIVER
 DATE: 8/2/04
 ROUTE: MAIN STREET - CARPENTERSVILLE, ILLINOIS
 BORING BY: GJS
 SECTION: MAIN STREET BRIDGE OVER FOX RIVER STATION: 113+31 CHECKED BY: WJW

DEPTH (N/6')	Qu (tsf)	W (%)	DESCRIPTION	DEPTH (N/6')	Qu (tsf)	W (%)
0			GROUND SURFACE EL. 723.4 E2' Brown Silty CLAY/TOPSOIL	0		
1	6	4	Brown to Dark Brown SAND and GRAVEL, A-2: FILL slightly to medium dense with trace Cinders, Brick, Debris	1	6	4
2	1	7	Run #1: 20'-23' (Blockout) Recovery = 100% RQD = 15.2% Qu = 4,800 psi @ 23.0'	2	1	7
3	2	9	Run #2: 23'-28' (Blockout) Recovery = 100% RQD = 42.5% Qu = 10,500 psi @ 25.0'	3	2	9
4	3	8	Run #3: 28'-33' Recovery = 100% RQD = 22.6% Qu = 1,000 to 2,500 psi	4	3	8
5	11	11	Brown to Grey Shale	5	11	11
6			Run #4: 35'-41' Recovery = 100% RQD = 51.4% Qu = 6,400 psi @ 37.0'	6		

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WATER MAIN BORING LOG

BORING: B-3
 DATE: 8/2/04
 BORING BY: GJS
 SECTION: MAIN STREET BRIDGE OVER FOX RIVER STATION: 113+31 CHECKED BY: WJW

DEPTH (N/6')	Qu (tsf)	W (%)	DESCRIPTION	DEPTH (N/6')	Qu (tsf)	W (%)
0			GROUND SURFACE EL. 10.0'	0		
1			Dolomitic Limestone Bedrock	1		
2			Run #1: 20'-23' (Blockout) Recovery = 100% RQD = 15.2% Qu = 4,800 psi @ 23.0'	2		
3			Run #2: 23'-28' (Blockout) Recovery = 100% RQD = 42.5% Qu = 10,500 psi @ 25.0'	3		
4			Run #3: 28'-33' Recovery = 100% RQD = 22.6% Qu = 1,000 to 2,500 psi	4		
5			Run #4: 35'-41' Recovery = 100% RQD = 51.4% Qu = 6,400 psi @ 37.0'	5		

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NEW: C-14
 PLOT: FILE: STANDARD
 COMP: FILE: 040127.mxd

SMITH ENGINEERING CONSULTANTS, INC.
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 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
 VILLAGE OF CARPENTERSVILLE
 MAIN STREET OVER THE FOX RIVER

SCALE: VERT. N/A
 HORIZ. N/A
 DATE: 02-25-2005

DRAWN BY: WJH
 CHECKED BY: TEH

REVISIONS

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