

PSI Job No.: 020-85005  
 Project: Cotton Hill Road District  
 Location: Section 07-09101-02-BR  
 Vigal Road  
 Sangamon County, Illinois

Drilling Method: 3 1/4" i.d. hollow stem auger  
 Sampling Method: Split Spoon  
 Hammer Type: Automatic  
 Boring Location: Sta. 78+62.4, 11.5' left

**WATER LEVELS**  
 While Drilling 21.5 feet  
 Upon Completion 19.5 feet

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (or DCP Testing)	STANDARD PENETRATION TEST DATA		Additional Remarks
								N in blows/ft	Moisture %	
99.4	0				Surface Elev.: 99.4 ft					
99.4	0 to 4.5'				0 to 4.5' - BITUMINOUS CONCRETE (FILL)	BCC				
95	5		1	12	Brown / dark gray silty CLAY, firm, slightly moist (FILL)	CL	7-5-3 N=8	16	X	Qu = 4.3 tsf
95	5		2	16	Brown silty CLAY, firm, moist (FILL)	CL	0-2-2 N=4	20	X	Qu = 1.6 tsf
90	10		3	18	Dark gray silty CLAY, firm, moist	CL	1-2-2 N=4	23	X	Qu = 0.8 tsf
90	10		4	18		CL	2-2-2 N=4	26	X	
85	15		5	18		CL	1-2-2 N=4	27	X	Qu = 1.4 tsf
85	15		6	18		CL	0-2-1 N=3	26	X	Qu = 0.8 tsf
80	20		7	18	Gray clayey SILT, some fine to medium sand, soft to firm, moist	ML	0-0-2 N=2	28	X	
80	20		8	18		ML	0-0-1 N=1	27	X	Qu = 0.4 tsf
75	25		9	18		ML	0-0-1 N=1	23	X	
75	25		10	18	Gray fine to medium SAND, loose, slightly moist to moist	SP	2-1-4 N=5	25	X	
70	30		11	18		SP	0-0-1 N=1	5	X	
70	30		12	18		ML	2-2-3 N=5	25	X	Qu = 1.0 tsf
65	35		13	18	Gray silty CLAY, some medium SAND, firm, moist	CL	1-2-3 N=5	27	X	Qu = 0.6 tsf
65	35		14	18		CL	0-2-2 N=4	26	X	Qu = 0.6 tsf
60	40		15	18		CL	0-2-2 N=4	25	X	Qu = 0.4 tsf
60	40		16	15	Gray SHALE, hard, slightly moist	CL	5-62-100/3"	12	X	
60	40		17	4	Auger refusal at 40.5'	CL	100/4"	13	X	

Completion Depth: 40.5 ft  
 Date Boring Started: 2/6/08  
 Date Boring Completed: 2/6/08  
 Logged By: Harry Waters  
 Drilling Contractor: PSI, Inc.

Sample Types:  
 Auger Cutting  
 Split-Spoon  
 Rock Core

Shelby Tube  
 Hand Auger  
 DCP

Latitude:  
 Longitude:  
 Remarks: Elevations are relative to the disk in the concrete curb at the northwest corner of the bridge (assumed to be 100.00')

The stratification lines represent approximate boundaries. The transition may be gradual.

**BORING 1**

PSI Job No.: 020-85005  
 Project: Cotton Hill Road District  
 Location: Section 07-09101-02-BR  
 Vigal Road  
 Sangamon County, Illinois

Drilling Method: 3 1/4" i.d. hollow stem auger  
 Sampling Method: Split Spoon  
 Hammer Type: Automatic  
 Boring Location: Sta. 10+62.4, 12' right

**WATER LEVELS**  
 While Drilling 23.5 feet  
 Upon Comp. Cave at 7'

Elevation, (feet)	Depth, (feet)	Graphic Log	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (or DCP Testing)	STANDARD PENETRATION TEST DATA		Additional Remarks
								N in blows/ft	Moisture %	
99.4	0				Surface Elev.: 99.4 ft					
99.4	0 to 5'				0 to 5' - BITUMINOUS CONCRETE	BCC				
95	5		1	18	Dark gray silty CLAY, some medium sand, very stiff, slightly moist (FILL)	CL	6-7-9 N=16	15	X	>>*
95	5		2	18	Brown silty CLAY, trace organics, firm, moist (FILL)	CL	2-3-4 N=7	24	X	
90	10		3	18	Dark gray silty CLAY, stiff, slightly moist (FILL)	CL	9-6-5 N=11	17	X	
90	10		4	18	Brown / gray silty CLAY, some crushed stone, hard, slightly moist (FILL)	CL	4-10-36 N=46	16	X	
85	15		5	18	Dark gray silty CLAY, some organics, stiff, moist	CL	7-5-5 N=10	27	X	
85	15		6	10	Gray silty CLAY, some fine to medium sand, firm, moist	CL	1-2-2 N=4	29	X	
80	20		7	8		ML	0-1-2 N=3	30	X	
80	20		8	9	Gray clayey SILT, some fine to medium sand, soft to firm, moist	ML	1-2-2 N=4	30	X	Qu = 1.0 tsf
75	25		9	18		ML	0-2-3 N=5	24	X	Qu = 1.2 tsf
75	25		10	18	Gray medium to coarse SAND, some silty clay, loose, moist	SP	0-1-2 N=3	19	X	
70	30		11	18		SP	1-2-5 N=7	26	X	
70	30		12	18	Gray clayey SILT, trace fine sand, firm, moist	ML	1-1-3 N=4	26	X	
65	35		13	18		ML	0-0-2 N=2	24	X	Qu = 0.8 tsf
65	35		14	18	Gray silty CLAY, some medium to fine sand, soft, moist	CL	0-0-2 N=2	23	X	Qu = 0.6 tsf
60	40		15	18		CL	0-0-2 N=2	28	X	Qu = 0.4 tsf
60	40		16	18	Gray SHALE, hard, slightly moist	CL	4-16-34 N=50	16	X	
60	40		17	5	Auger refusal at 41.5'	CL	100/5"	17	X	>>*

Completion Depth: 41.5 ft  
 Date Boring Started: 2/6/08  
 Date Boring Completed: 2/6/08  
 Logged By: Harry Waters  
 Drilling Contractor: PSI, Inc.

Sample Types:  
 Auger Cutting  
 Split-Spoon  
 Rock Core

Shelby Tube  
 Hand Auger  
 DCP


Latitude:  
 Longitude:  
 Remarks: Elevations are relative to the disk in the concrete curb at the northwest corner of the bridge (assumed to be 100.00')

The stratification lines represent approximate boundaries. The transition may be gradual.

**BORING 2**

DESIGNED - S.M.S
CHECKED - S.W.M.
DRAWN - D.A.B.
CHECKED - D.T.M.

**BORINGS**  
**STRUCTURE NO. 084-3556**

<b>HAMPTON, LENZINI &amp; RENWICK, INC.</b> CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS  3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	348	07-09101-02-BR	SANGAMON	16	16
	COTTON HILL ROAD DISTRICT			CONTRACT NO.	93507
PROJECT NUMBER: 08.0042.130	DATE: 10/03/08	ILLINOIS FED. AID PROJECT			