Illinois Department of Transportation
Division of Highways
Reynolds Drilling Corp.

SOIL BORING LOG

Page 1 of 3

Date 3/18/08

ROUTE County Road 400 North DESCRIPTION Bridge Replacement Boring LOGGED BY CE Jolly

SECTION 07-04121-00-BR LOCATION Cold Spring Tshp., SEC. 26, TWP. 10N, RNG. 2E, 3rd PM

COUNTY Shelby DRILLING METHOD Hollow Stem Auger HAMMER TYPE Hydraulic

STRUCT. NO.
Station

BORING NO. B-1
Station 1+20
Offset 5.40ft RT (589.8)
Ground Surface Elev. 100.30 ft

Surface Water Elev. ft
Stream Bed Elev. 91.00 ft

Groundwater Elev.:
First Encounter 92.3 ft
Upon Completion 92.3 ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Oil & chip roadway and subgrade 99.80					
Brown, moist to wet SILTY CLAY LOAM. (A-7-6)	(589.3)				13.9
			4		
			5	2.0	11.2
			7	P	
		-5	9		
			4	1.0	2.7
			7	P	
			2		
			2		22.0
			3		
		-10	2		
			2		20.3
			1		
			3		
			2	1.0	66.7
			2	P	
	(574.8) 85.30	-15	3		
Brown, wet PEAT, trace silt, trace clay. (A-8)			2	1.0	217.0
			1	P	
			2		
			2	1.5	109.0
			4	P	
		-20	2		
Brown, wet PEAT, trace silt, trace clay. (A-8) *(continued)*			2	1.0	132.0
			4	B	
			3		
			3	1.9	91.0
			3	B	
	(565.8) 76.30				
Gray, saturated, fine SANDY LOAM. (A-3)		-25	0		
			0		42.4
			2		
			2		
			2		41.4
			2		
	(560.8) 71.30				
Gray, moist SILTY LOAM. (A-5)		-30	2		
			2	0.9	82.2
			2	B	
	(558.3) 68.80				
Brown, wet PEAT. (A-8)			3		
			4	1.5	93.0
			4	P	
	(555.8) 66.30				
Brown, moist SILTY CLAY LOAM. (A-6)		-35	2		
			2	0.5	29.2
			2	P	
	(553.0) 63.50				
Gray, wet SANDY LOAM, trace gravel. (A-3)			6		
			7		19.7
			14		
	(550.8) 61.30				
Gray, wet to saturated SAND, trace gravel. (A-1)		-40	6		

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)

U.S.G.S. Elev. 100.0 = 589.5±

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Upon Completion 92.3 ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray, wet to saturated SAND, trace gravel. (A-1) *(continued)*			6		23.1
			7		
	(548.3) 58.80				
Gray, saturated SAND, with medium to coarse gravel. (A-1-a)			7		
			13		13.1
			13		
		-45	6		
			14		16.8
			17		
			8		
			8		20.2
			17		
		-50	14		
			18		11.0
			29		
			7		
			9		12.4
			11		
	(535.8) 46.30				
Gray, moist SANDY LOAM, trace gravel. (A-3)		-55	9		
			8	1.5	11.2
			15	P	
			10		
			11	4.5	10.6
			12	P	
	(530.8) 41.30				
		-60	9		
Gray, moist SILTY CLAY LOAM with occassional sand lenses. (A-4) *(continued)*			9	1.6	14.1
			14	B	
			5		
			9	1.9	15.4
			9	B	
		-65	4		
			7	0.6	19.8
			6	B	
	(523.3) 33.80				
Brown, moist SILTY LOAM. (A-6)			9		
			12	3.8	21.0
			17	B	
	(520.8) 31.30				
Gray, moist SANDY LOAM. (A-3)		-70	9		
			8	4.4	15.0
			19	B	
	(518.3) 28.80				
Gray, moist SILTY CLAY LOAM. (A-6)			17		
			27	4.9	16.1
			31	B	
		-75	15		
			19	3.6	16.1
			22	B	
			25		
			30	4.1	14.7
			30	B	
	20.30	-80	25		

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Stream Bed Elev. 91.00 ft

Groundwater Elev.:
First Encounter 92.3 ft
Upon Completion 92.3 ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray, moist SILTY LOAM with shale fragments. (A-4)			31	2.2	20.5
			29	B	
			19		
			25	2.2	19.3
			30	B	
		-85	19		
			40	6.3	19.5
			20	B	
	(503.8) 14.30				
End of Boring					
		-90			
		-95			
		-100			

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BORING 1

FILE NAME = 070476-sht-bridge.dgn	USER NAME =	DESIGNED - D.W.T.	REVISED -	STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT	BORINGS STRUCTURE NO. 087-3572	T.R.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -			373	07-04121-00-BR	SHELBY	18 / 17
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.003959	PLOT SCALE =	DRAWN - D.T.M.	REVISED -		SHEET NO. 9 OF 10 SHEETS	COLD SPRING ROAD DISTRICT		CONTRACT NO. 95656	
	PLOT DATE = 4/4/2011	CHECKED - S.W.M.	REVISED -			ILLINOIS	FED. AID PROJECT BROS-173(174)		