STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
District 6

Date 1/21/09

ROUTE FAP 761 DESCRIPTION IL 108 Over Hodges Creek, Pier 4 LOGGED BY M. Tappan

SECTION 107B-2 LOCATION NE 1/4, SEC. 21, TWP. 10N, RNG. 9W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 059-0510
Station 695+48.88

BORING NO. B-P4
Station 696+80
Offset 30.0ft LT
Ground Surface Elev. 497.7 ft

Surface Water Elev. 489.8 ft
Stream Bed Elev. 486.3 ft

Groundwater Elev.:
First Encounter 481.2 ft
Upon Completion Washed ft
After 35 Days Hrs. 492.7 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Dk Gray Moist SILTY CLAY (Disturbed) w/ Broken Concrete			3		
			6	2.1	12
		-5	8	S-14	
	491.20		2		
Dk Gray Moist SILTY CLAY LOAM			5	1.1	23
			3	B	
			1		
V Moist			1	0.0	33
		-10	1		
			0		
Wet			0	0.0	27
			0		
			0		
V. Moist			0	0.2	29
		-15	0	B	
	482.20				
Gray Wet LOAM w/ some Woody Organics FREE WATER			0		
			0	0.1	35
			1	B	
	479.70				
Gray Wet LOAM to SILTY CLAY LOAM w/ some Organics and Mollusc Shells			0		
			0	0.2	35
		-20	1	B	
	477.70				

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Gray Dirty Med SANDY GRAVEL Washed			5		
			3		
			2		
			6		
			4		
		-25	3		
			2		
Gray Med to Coarse SAND Washed			3		
			3		
			1		
to Gray Fine Dirty SAND			1		
		-30	3		
			3		
			2		
		-35	2		
	460.20				
Gray Moist CLAY LOAM (Till) Washed			5		
			6	3.9	17
		-40	7	B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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)

File Name S:\SOIL SKETCH FILES\MACOUPIN\059-0510 IL 108 OVER HODGES CREEK\GPJ Data Template DISTSMPLT.GDT Date Printed 6/17/09
Latitude 39D 16.330N Longitude 90D 36.093W Datum NAD83 Job Number D96-SD-07

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
District 6

Date 1/21/09

ROUTE FAP 761 DESCRIPTION IL 108 Over Hodges Creek, Pier 4 LOGGED BY M. Tappan

SECTION 107B-2 LOCATION NE 1/4, SEC. 21, TWP. 10N, RNG. 9W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 059-0510
Station 695+48.88

BORING NO. B-P4
Station 696+80
Offset 30.0ft LT
Ground Surface Elev. 497.7 ft

Surface Water Elev. 489.8 ft
Stream Bed Elev. 486.3 ft

Groundwater Elev.:
First Encounter 481.2 ft
Upon Completion Washed ft
After 35 Days Hrs. 492.7 ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Gray Moist CLAY LOAM (Till) Washed *(continued)*			3		
			5	3.3	17
		-45	5	B	
			5		
			11	3.6	16
		-50	10	B	
	445.20				
Lt Brownish Gray and Gray Moist Varved SILT			1		
			2	2.0	35
		-55	5	B	
	440.20				
Lt Brownish Gray to Gray Moist SILTY CLAY Interbedded w/ Gray Silt Seams and Organics			3		
			5	2.4	31
		-60	8	B	

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Lt Brownish Gray to Gray Moist SILTY CLAY Interbedded w/ Gray Silt Seams and Organics *(continued)*			5		
	435.20				
Grayish Brown Moist Organic SILT w/ Med to Coarse Sand Seam @ 65-66			11	3.1	77
		-65	18	S-12	
	431.70				
Lt Gray Poorly Cemented Fine Grained SANDSTONE Drilled Hard @ 66			50		
			100		16
		-70	/1"		
	425.20				
Dk Gray Mod Indurated Calcareous SHALE			100/3"		11
	423.70				
Boring Completed		-75			
		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
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Latitude 39D 16.330N Longitude 90D 36.093W Datum NAD83 Job Number D96-SD-07

SOIL BORING LOG

Illinois Department of Transportation
Division of Highways
District 6

Date 2/24/09

ROUTE FAP 761 DESCRIPTION IL 108 Over Hodges Creek, West Abutment LOGGED BY M. Tappan

SECTION 107B-2 LOCATION NE 1/4, SEC. 21, TWP. 10N, RNG. 9W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 059-0510
Station 695+48.88

BORING NO. B-WA
Station 696+58
Offset 7.0ft RT
Ground Surface Elev. 516.0 ft

Surface Water Elev. 489.8 ft
Stream Bed Elev. 486.3 ft

Groundwater Elev.:
First Encounter No Encounter ft
Upon Completion Water Added ft
After ___ Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown Moist SILTY CLAY LOAM			1		
			2	1.2	
			2	18	
	513.00				
Lt Reddish Brown Moist CLAY LOAM (Till)			1		
			2	0.6	19
		-5	3	B	
	510.50				
Lt Reddish Brown V. Moist SANDY CLAY LOAM			1		
			3		15
			6		
	506.00				
Gray and Yellowish Brown Moist CLAY LOAM (Till)			2		
			3	1.6	19
		-10	5	B	
			3		
Gray and Brown			13	4.1	15
			19	S-13	
			2		
w/ Slickensides			6	5.9	16
		-15	9	B	
			4		
			19	6.4	15
			30	B	
			13		
Rock in Sampler			17	5.0	20
		-20	14	E	

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Gray and Yellowish Brown Moist CLAY LOAM (Till) *(continued)*			14		
			10	4.0	13
			15	E	
	492.50				
Lt Gray Moist V Fine SAND			4		
			13		
		-25	19		
	490.50				
Gray and Olive Brown Moist CLAY LOAM (Till)			2		
			12	5.4	15
			19	B	
	488.00				
Gray and Olive Brown Moist SILTY CLAY (Till)			2		
			4	6.1	15
		-30	12	B	
			2		
			5	5.7	14
			12	B	
	483.00				
Gray and Olive Brown Moist CLAY LOAM (Till) Added Water to Boring			2		
			5	5.6	14
		-35	12	B	
			2		
Gray			10	6.6	12
		-40	25	B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
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DESIGNED -	J.M.B.
CHECKED -	T.E.S.
DRAWN -	R KING
CHECKED -	J.M.B.

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SOIL BORING LOGS
STRUCTURE NUMBER 059-0510

	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHEET NO. 50 OF 51 SHEETS	761	107B-2	MACOUPIN	98	80
	FAP ROUTE 761 (IL RT 108)		CONTRACT NO. 72A94		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		