Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 11/21/06

ROUTE F.A. 87 (IL Rt 94) DESCRIPTION IL 94 Over Middle Creek, 1mi. N. of Stronghurst LOGGED BY SCI (BCR)

SECTION 109 BR-2 LOCATION SEC. 13, TWP. 9N, RNG. 5W

COUNTY Henderson DRILLING METHOD CME 850 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 036-0012(Exist) 036-0069(Prop)
Station 301+61.00

BORING NO. 2 (S. Abut)
Station 302+06
Offset 30.00ft Rt
Ground Surface Elev. 601.33 ft

Surface Water Elev. 590.74 ft
Stream Bed Elev. 589.95 ft

Groundwater Elev.:
First Encounter 590.3 ft ▼
Upon Completion - ft
After - Hrs. - ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, low plastic silty clay loam (A-6)			
	2		
	3	0.5	9.3
	3	P	
596.33 FILL: Brown, low plastic silty clay (A-6)			
	1		
	2	0.3	28.3
-5	2	B	
596.08 SILTY CLAY LOAM: Dark brown, low plastic (A-6)			
	1		
594.33 CLAY LOAM: Dark brown, high plastic, trace sand deposits (A-7)	1	0.3	35.0
	2	B	
	1		
	2	0.5	25.7
-10	3	B	
▼			
Grades to some fine to medium sand deposits	2		
	3	-	29.0
	4		
588.33 SAND: Gray, fine to medium, trace to some clay (A-2)			
	3		
	5		22.9
-15	5		
585.33 CLAY LOAM: Gray, high plastic (A-7)	0		
	1	0.7	17.8
Grades to trace sand deposits	3	B	
	3		
Grades to trace gravel	6	3.1	16.7
-20	15	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM: Gray, high plastic (A-7) *(continued)*			
	6		
	6	2.8	15.8
	11	B	
	5		
	11	2.6	16.7
-35	19	B	
	6	2.2	17.2
	8	B	
	3		
	5	2.8	16.1
-30	7	B	
569.33 CLAY: Brown and gray, high plastic, trace sand, gravel (A-7)			
	4		
	6	1.9	19.6
-35	7	B	
Poor recovery - gravel blockage	5		
	6	-	20.5
-40	12		

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)

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown and gray, high plastic, trace sand, gravel (A-7) *(continued)*			
Becomes brown, trace organics	5		
	7	2.1	23.0
-45	8	B	
Becomes dark brown	4		
	7	2.1	26.8
Becomes brown	8	B	
-60			
547.08 CLAY LOAM: Brown, high plastic, trace gravel (A-7)			
	12	1.8	18.7
-65	14	B	
	5		
	11	2.5	17.5
-80	29	B	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM: Brown, high plastic, trace gravel (A-7) *(continued)*			
540.33 SILTY LOAM: Brown and gray, low plastic (A-4)			
Unconfined compressive strength (UCS) test reported for the SILTY LOAM. The UCS for the CLAY LOAM is 4.5 tsf (P).	40		
537.33	32	2.2	22.1
536.58 SAND: Brown, fine to medium (A-3)	14	S	
-85 CLAY LOAM: Brown, high plastic, trace gravel (A-7)			
	6		
	8	1.9	18.3
-70	11	B	
528.59 SILTY CLAY LOAM: Gray, medium plastic (A-7) Sample broken in SPT spoon.			
	6		
	9	-	24.0
-75	10		
	10		
522.08	18	2.8	18.2
-80	25	B	

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM: Gray, high plastic, trace gravel (A-7) *(continued)*			
519.83 CLAY: Gray, high plastic (A-7)			
	7		
	10	3.3	22.1
-85	12	B	
497.33			
514.33 SAND: Gray, fine to coarse, trace to some gravel (A-1)			
	26		
	20		
Some gravel in lower part of SPT spoon.	52		
-90			
509.33 SANDY CLAY LOAM: Gray, low plastic (A-6)			
507.33	33		
SAND: Gray, fine to coarse, trace to some gravel (A-1)	24		
-95	25		
492.58 SHALEY CLAY: Brown, high plastic (A-7) 592.08	30		
	50/3"	3.6	14.1
-100 CLAYEY SHALE: Brown	50/1"	S	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY SHALE: Brown *(continued)*			
Becomes gray			
	50/2.5"	4.5	13.4
	50/1.5"	P	
	50/5"		
	20/1"	4.5	13.6
AASHTO classifications are field visual only for this boring; no lab class. were run	50/1.5"	P	
End of Boring			
-105			
-110			
-115			
-120			

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DESIGNED	MJJ
CHECKED	ALN
DRAWN	MJJ
CHECKED	ALN

THOUVENOT, WADE & MOERCHEN, INC.
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Fax: 618.624.6688

TWM
EXCEPTIONAL SERVICE. NOTHING LESS.

SHEET NO. 17
SHEETS 17

SOIL BORING LOG B-2
STRUCTURE NO. 036-0069

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	109BR-2	HENDERSON	490	444
		CONTRACT NO. 88773		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Plotted by: jstein 1/21/2009 10:03:5 AM
P:\350709.dgn\Bridge Sheets & Drawings\0360069-88773-017-SoilBoring_B-2.dgn