Illinois Department of Transportation
Division of Highways
WHITNEY & ASSOCIATES

SOIL BORING LOG

Date 2/2/12

ROUTE _____ DESCRIPTION Soangetaha Bridge Over BNSF Railroad LOGGED BY T. Fehl

SECTION 07-00651-03-BR LOCATION Galesburg, SEC. 12, TWP. 11N, RNG. 1E,
Latitude , Longitude

COUNTY Knox DRILLING METHOD Hollow-Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 048-3198
Station 10+00

BORING NO. B-03
Station 9+54
Offset 49.0 ft Left
Ground Surface Elev. 766.60 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 742.1 ft ▼
Upon Completion 752.4 ft ▽
After 24 Hrs. 753.3 ft ▽

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Brown SILTY CLAY LOAM (Stripped) (24.0")	764.60				
Medium, Light Brown SILTY CLAY DD = 93 PCF	762.60		2 2 3	0.9 B	27
Stiff, Gray And Orange-Brown SILTY CLAY DD = 96 PCF	760.10	-5	2 2 3	1.5 B	25
Stiff, Gray-Brown And Brown SILTY CLAY DD = 94 PCF			3 4 5	1.1 B	26
DD = 96 PCF	754.10	-10	2 2 4 3	1.3 B	25
Loose, Light Brown, Fine-Grained SAND ▼	752.60		4 5	-	17
Soft, Gray SILT	750.10	-15	2 2 2	0.5 P	24
Loose, Gray, Fine- To Medium-Grained SAND With Some Fine-Grained Gravel And Silt	747.60		4 5 5	-	15
Medium-Density, Gray, Fine- To Coarse-Grained SILTY SAND		-20			
Medium-Density, Gray, Fine- To Coarse-Grained SILTY SAND (continued)	745.10		4 8 6	-	-
Loose, Gray, Fine- To Medium-Grained SAND Wiht Some Silt	742.60		2 3 3	-	-
Loose, Gray, Medium- To Coarse-Grained SAND ▼	739.60	-25	2 3 5	-	-
Very Stiff, Gray, NEAR CLAY SHALE DD = 111 PCF	737.10		5 7 10	2.7 B	18
Very Stiff, Gray CLAY SHALE DD = 113 PCF	733.10	-30	8 18 17	3.1 B	17
Hard, Gray CLAY SHALE		-35	87/6"	4.5 P	12
		-40			

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, form 137 (Rev. 8-99)

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, Gray CLAY SHALE (continued)			80/3"	4.5 P	12
	720.60	-45	93/3"	4.5 P	11
End of Boring		-50			
		-55			
		-60			

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