Illinois Department of Transportation
Division of Highways
WHITNEY & ASSOCIATES

SOIL BORING LOG

Date 10/31/11

ROUTE FAS 393 DESCRIPTION Knox County Highway 4 Improvements LOGGED BY T. Fehl

SECTION 09-00001-00-RS LOCATION Walnut Township, SEC. 15, TWP. T13N, RNG. R3E,
Latitude , Longitude

COUNTY Knox DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SB-01
Station 47+50
Offset 10.5 ft Right
Ground Surface Elev. 729.60 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 712.1 ft ▼
Upon Completion None ft
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
OIL And CHIPS (2.5")	729.39				
Brown, Fine- To Medium-Grained GRAVEL And SAND (10.0")	728.77				
Stiff, Brown SILTY CLAY LOAM A-7-6 (Fill)			2		
			2	1.2	23
			2	B	
	725.60				
Stiff, Brown And Light Brown SILTY CLAY A-7-6 (Fill)		-5	2		
			2	1.3	24
			3	B	
	723.10				
Stiff, Black SILTY CLAY A-7-6			2		
			2	1.2	26
			3	B	
	720.60				
Medium, Black SILTY CLAY A-7-6		-10	2		
			2	0.8	27
			3	B	
	718.60				
Medium, Dark Gray SILTY CLAY LOAM A-7-6			1		
			1	0.6	29
			1	B	
	715.60				
Soft, Gray CLAY LOAM With Seam of Medium-Grained SAND A-6		-15	1		
			1	0.5	24
			1	B	
	713.10				
Very Stiff, Gray-Brown CLAY LOAM A-6 (Glacial Till) ▼			5		
			7	3.4	12
			7	B	
		-20			
Very Stiff, Gray-Brown CLAY LOAM A-6 (Glacial Till) (continued)			6		
			8	2.5	14
			11	B	
	708.10				
Very Stiff, Gray CLAY LOAM A-6 (Glacial Till)			6		
			10	2.7	13
			12	B	
	705.60				
Hard, Gray LOAM A-4 (Glacial Till)		-25	8		
			12	5.3	10
			16	B	
	701.10				
Very Dense, Black COAL					
		-30	76/6"	-	17
	696.60				
Hard, Dark Gray SHALE		-35	81/6"	4.5	12
				P	
		-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)

Illinois Department of Transportation
Division of Highways
WHITNEY & ASSOCIATES

SOIL BORING LOG

Date 10/31/11

ROUTE FAS 393 DESCRIPTION Knox County Highway 4 Improvements LOGGED BY T. Fehl

SECTION 09-00001-00-RS LOCATION Walnut Township, SEC. 15, TWP. T13N, RNG. R3E,
Latitude , Longitude

COUNTY Knox DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SB-01
Station 47+50
Offset 10.5 ft Right
Ground Surface Elev. 729.60 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 712.1 ft ▼
Upon Completion None ft
After - Hrs. - ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard, Dark Gray SHALE (continued)	688.60		95/6"	4.5	11
				P	
End of Boring					
		-45			
		-50			
		-55			
		-60			

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)

SOIL BORING LOGS
KNOX COUNTY
SECTION 12-00001-01-RS
C.H. 4 OVER WALNUT CREEK TRIBUTARY

SHEET NO. 4	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 4	12-00001-01-RS	KNOX	174	79
5 SHEETS	S.N. 048-5038		CONTRACT NO. 89614		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT RS-0393(105)		

3275CULV04-EAST