STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Illinois Department of Transportation

Page 1 of 1

Date 12/4/07

ROUTE FAP 304 DESCRIPTION IL 96 over Fox Creek LOGGED BY E. Stewart

SECTION 5A-BR LOCATION SW 1/4, SEC. 2, TWP. 9S, RNG. 3W, 4 PM

COUNTY Calhoun DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 007-0013 (E) / 007-0028 (P)
Station 475+15

BORING NO. SB 2
Station 475+00
Offset 60.00ft RT
Ground Surface Elev. 494.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 492.1 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Light Brown Loamy SAND with Aggregate See Gradation @ 2.5 ft ▼			6		
			12 15	1.04 B/20	21
	489.6				
Light Brown Sandy GRAVEL See Gradation @ 5 ft		-5	12 9 8	NC	20
	487.1				
Light Brown CLAY Speckled with Red Sand			2 9 13	1.63 B/20	26
	484.6				
Light Brown Sandy GRAVEL See Gradation @ 10 ft		-10	5 6 15	NC	20
	482.6				
Light Brown Sandy LOAM with Aggregate			3 4 5	1.79 B/20	20
	479.6				
Light Brown Gravelly Loamy SAND See Gradation @ 15 ft		-15	8 12 12	NC	19
	476.1				
Weathered SHALE with Aggregate			4 12 15	1.50	19
		-20	8		
Weathered SHALE with Aggregate (continued)			11 12	3.01	17
	469.6				
Soft Weathered SHALE		-25	9 9 0	4.00 P	20
			6 0	1.00 P	23
			0 0	2.70 P	25
	464.1	-30	27		
Weathered SHALE with Aggregate			23 –		32
			500.75'		
	461.1		–		78
END OF BORING		-35			
		-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, from 137 (Rev. 8-99)

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Date 11/9/07

ROUTE FAP 304 DESCRIPTION IL 96 over Fox Creek LOGGED BY E. Stewart

SECTION 5A-BR LOCATION SW 1/4, SEC. 2, TWP. 9S, RNG. 3W, 4 PM

COUNTY Calhoun DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 007-0013 (E) / 007-0028 (P)
Station 475+15

BORING NO. W. Abut.
Station 474+50
Offset 17.00ft RT
Ground Surface Elev. 503.6 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 466.6 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Light Brown CLAY			2		
			4 16	0.66 B/10	21
	499.1				
Light Gray Silty LOAM		-5	6 6 6	0.29 S/10	17
			16		
			40 50	2.00 P	—
	494.1				
Light Brown Clay LOAM		-10	6 8 6	0.70 S/10	15
	491.6				
Medium Brown CLAY Speckled with Gravel			5 6 12	0.70 S/10	15
		-15	3		
			3 6	0.29 B/20	22
	486.6				
Light Brown Clay LOAM Speckled with Sand and Gravel See Gradation @ 17.5 ft			15 7 6	1.00 P	15
		-20	5		
Light Brown Clay LOAM Speckled with Sand and Gravel See Gradation @ 17.5 ft (continued)			4 7 3	1.21 S/10	21
			4		
			7 3	1.11 B/20	21
		-25	2		
			2 4	0.65 B/20	31
			16		
			14 25	2.80 S/15	19
	473.6	-30			
Light Brown Sandy Clay LOAM with Gravel See Gradation @ 32.5 ft			14		
			19 16	1.00 P	18
		-35			
	466.6 ▼		12		
Clay LOAM with Weathered Shale			19 31	1.14 B/20	20
		-40			

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Stream Bed Elev. ft

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Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Clay LOAM with Weathered Shale (continued)					
	461.1		500.5'	NC	24
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, from 137 (Rev. 8-99)

Johnson, Depp & Quisenberry
CONSULTING ENGINEERS
Springfield, Illinois

DESIGNED:	IDOT	DRAWN:	SJS
CHECKED:	DCD	CHECKED:	DCD

SOIL BORINGS (3 OF 3)
ILLINOIS 96 OVER
FOX CREEK
STRUCTURE NO. 007-0028

SHEET 22 OF 22	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	304	5A-BR	CALHOUN	60	45
	STA. 475+19.62		CONTRACT NO. 76886		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FILE: J:\JDQ\0164 IL-DBVV#9 IL 96 Fox Creek-FINAL\FoxCreek\20borings.dgn USER: DCD DATE: 11/26/2008 10:41:6