SKS ENGINEERS, INC.
2900 N. MARTIN LUTHER KING JR. DRIVE
DECATUR, ILLINOIS 62526

SOIL BORING LOG

Date 04/22/2010

ROUTE _____ DESCRIPTION SKS No. 012059 Bridge Borings - Bridge over Buckhart Creek LOGGED BY T. Mathias / EK / WJ

SECTION 08-00119-03-BR LOCATION CH 4, Cooper Township Buckhart Road SEC. 17 TWP. 14-15 RNG. 3W PM

COUNTY Sangamon DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety Hammer

STRUCT. NO. 084-0080
Station _____

BORING NO. B-2
Station 1+81
Offset 6.0' LT
Ground Surface Elev. 103.5 ft

Surface Water Elev. 88.3 ft
Stream Bed Elev. 86.1 ft

Groundwater Elev.:
First Encounter 89.5 ft
Upon Completion 103.5* ft
After 24 Hrs 88.5 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				4" Asphalt 8" Concrete
				SILTY CLAY LOAM - Dark Gray, moist, stiff, low-med plasticity, tr sand, tr gravel A-6
	6 5 7	1.8	23	
-5	5 8 6		14	
	7 7 10	1.2	19	
9.5				
-10	2 4 7	1.2	16	SILTY CLAY LOAM - Brown, moist, stiff, low plasticity, tr sand, tr gravel A-6
12.5	3 4 4	0.4	27	VERY SILTY CLAY LOAM - Gray, moist, firm-stiff, low plasticity, tr sand, tr gravel A-6
14.5				
-15	1 2 3		9	SANDY CLAY LOAM - Gray, moist, firm, low plasticity, tr sand, tr gravel A-6
16.0				
	2 2 4			SAND - Brown, saturated, loose, med-coarse, little gravel A-1-b
-20	3			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	4 5			* Wash water used to clean hole
22.0				
	9 8 8			SAND - Gray, saturated, med dense, fine-coarse, little gravel A-1-a
-25	7 8 9			
	12 13 10			
-30	8 10 10			
32.0				
	5 8 9			SAND - Gray, saturated, med dense, med-coarse, tr-little gravel A-1-b
-35	3 6 10			
37.0				
	7 12 11		28	SANDY CLAY LOAM - Gray, moist, very stiff, low plasticity, tr gravel A-6
39.5				
-40	8			SILTY CLAY LOAM - Gray,

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 137 (3/01)

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	8 10	1.2	28	SILTY CLAY LOAM - Gray, moist, very stiff, low plasticity, tr sand, tr gravel A-6
	4 7 9	1.3	32	
-5	4 7 7	1.3	38	
	4 4 6	0.3	41	
49.5				
-10	4 4 9	1.3	22	SANDY CLAY LOAM - Gray, moist, stiff, low plasticity, tr sand, tr gravel A-6
52.0				
			21	CLAYEY SAND - Gray, saturated, very loose, fine-med A-2-6
54.5	1			
-15	5 8 12		18	SAND - Gray, saturated, med dense, fine-med A-1-b
	6 5 7			
-20	11			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	15 20			* Wash water used to clean hole
64.5				
-25	4 5 18			SAND - Gray, saturated, med dense, med-coarse, tr gravel, coal A-1-b
67.0				
	10 15 23		29	SAND -Gray, saturated, dense fine-med, tr gravel A-1-b
-30	37 28 30		17	
71.0				
-35				END OF BORING @ 71.0 FT. BORING BACKFILLED WITH SPOIL AND CAPPED WITH CONCRETE CYLINDER UPON COMPLETION
-40				

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BBS 137 (3/01)

USER NAME = dheberling	DESIGNED - TJZ	REVISED -	
FILE NAME = D6_SN0840480.dgn	CHECKED - SDS	REVISED -	
PLOT DATE = 9/7/2011	DRAWN - DLH	REVISED -	
PLOT TIME = 11:11:45 AM	CHECKED - TJZ/SDS	REVISED -	

WHKS & CO. ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 084-0480
SHEET NO. 11 OF 11 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	18
		CONTRACT NO. 93556		
	ILLINOIS FED. AID PROJECT			