(P)	Illinois Departmen of Transportation
	Division of Highways

**SOIL BORING LOG** 

Date 1/18-23/2013

FCTION (44-B-1)BR		LOCA	TION	NW 1/	4, SEC. 10, TWP. 9N, RNG. 3E, 4th PM					
		2007		1488 1/	-, 020. 10, 1441 . 014, 1440. 3E, 4 FW					
OUNTY Knox DRIL	LING N	ETHO	CN_CN	ΛΕ 750	Track with 3 1/4 HSA HAMMER TY	PE_		Auto	matic	
TRUCT. NO. <u>048-0100 (Proposed)</u> Station <u>1969+15.00</u> ORING NO. B-106	E F	L	U C S	M 0 1 s	Surface Water Elev.	-	D E P T	B L O W	U C S	M 0 1 S
Station 1970+57 Offset 33.0 ft LT	. /f	(/6"	Qu (tsf)	T (%)	First Encounter Not Obs. f Upon Completion Not Obs. f	t	H (ft)	S (/6")	Qu (tsf)	T (%)
Ground Surface Elev. 549.0  RASS COVER - 3 inches -5		., (,,	, (tai)	( /0)	After N/A Hrs. N/A f SAND: Brown, fine, A-3	t	(11)	(10 )	(tai)	1 /0
ANDY LOAM: Brown, A-2	48.7	$\dashv$			(continued)		-			
		1	NC		No sample recovered	-		6		
	_	1	NC	17		-		9		
_		1				e000	-	12		
DAM: Brown, A-4	5 <u>46.0</u>	+			SHALEY CLAY: Light gray	526.0	=			
		1						5		
		4	3.0 P	9				19	>4.5 P	13
	_	-5 6				-	-25	28		
		-					-			
		5	26 000			-		16		
	_	9	4.0 P	13				31	3.3 S/10	12
		7					_	50/5"		
_AY: Dark gray, A-6	<u>541.0</u>	-			Becomes dark gray	-	_			
Erri. Baik gray, 710		3			Boodines dain gray			5		
	_	3	0.7 B	28		-		19	3.3 S/15	12
		10 5					-30	42	O/ 10	
LTY CLAY: Dark grav. A-6	38.5	-					-			
ETT OEM. Dark gray, A-0	_	2				-		25	>4.5	
		1	0.7 B	30				50/4.5"		10
		3	B			_				
	_	_			CLAYEY SHALE: Light gray, soft,	5 <u>16.0</u>	_			
		0			with dark gray sandstone stringers		-	50/4"	>4.5	15
	-	1	0.2 B	36		-		JUI-	P	_ 13
		15 1	R	-		_	-35			
5	33.5	_								
ANDY CLAY LOAM: Brown and ark gray, trace coal, A-6	_	1	0.1					31	3.0	_
	32.0	1	В	26	SHALE: Dark gray, moderately	512.5	-	31 50/3.5%	-	7
AND: Brown, fine, A-3	N4.U	- i	NC	26	hard, slightly weathered	-	T	0.0.0		
	_									
		- 30			Borehole continued with rock coring.					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

	SCI Engine	Highways ering, Inc.	KU	CK C	UKI		L	U		D-4	e 1/18-2	ח מי
ROUTE	F.A.P. 626	DESCRIPTION	Ilinois 97	over Spoon R	iver. Pr	opos	ed Pi	ier 5	LC			
SECTION				SEC. 10, TW		•						
			Northing	1		Ea	sting	R		CORE	s	l n
COUNTY	Knox CORI	NG METHOD WI	re Line	Split Ba	rrel,			E	R		T R	C
STRUCT. NO.	048-0100 (Proposed)	CORING BARREL	. TYPE & S	SIZE NX		D	С	0	Q	T	E	5
Station	1969+15.00	Core Diameter		in		E	0	v	٠	M	N	1.7
BORING NO.		Top of Rock E		512.5 ft 511.0 ft		T	R	E R	D	E	G T	l L
Station	1970+57	Begin Core El	ev	511.0 ft		H	_	Y			H	E
Offset Ground Surfa	33.0 ft LT ice Elev. 549.0	ft				(ft)	(#)	(%)	(%)(i	min/ft)	(tsf)	(%
	gray, moderately hard, s		continued)			17	1	88	75	0.7	·	1.5
	, _ , ,				500 -	-	2	100	56	1		-
COAL: Black	sub-bituminous to bitum	inous, trace pyrite s	tringers		509.8	-	_	100	50	1		
Didon;		pjto c				-40						
					508.3							
	ARGILLACEOUS SAN			gray, soft to		-						
moderately sol	t, moderately to highly	weautered, rare coa	sunger			-					18.6	5.
ADOULT 355	00 0 AND 07-00 5 7-7				506.6	-						
ARGILLACEO weathered	US SANDSTONE: Ligh	t gray, fine, modera	tely hard,	slightly			3	100	75	0.8		
							_					
						_						
						46					42.5	5.
SHALE: Dest	yray moderately band	moderately to slight	woother		503.8	-40					42.0	) S.
OLIALE, DAIK	gray, moderately hard, r	noderately to signti	y weather	<del>o</del> u								
						_	4	100	88	0.4		
						_						
						_						
							5	100	100	0.8		+
							ر	100	100	0.0		
						-50						
						-					48.0	7.8
						_					40.0	1 "
						_						
					495.7		6	96	75	0.8		$\vdash$
COAL: Black.	oituminous to anthracite				495.7		_					
SANDY SHAL	: Gray, moderately sof	ft, slightly weathered			494.7							
SHALE: Light	gray and gray, soft to m	oderately soft, mod	erately we	athered, trace	9							
gravel						55						
1.5 inch layer o	of clavev shale					_					14.3	7.3
mon ayor c												
							7	83	83	0.7		
								1000	10000	1000		

(P)	Illinois Department of Transportation
	Division of Highways SCI Engineering, Inc.

ROCK CORE LOG

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		Division of Hi SCI Engineer	ighways ing, Inc.	NC	JUN U	OKL	- L	.U	G		Dat	e 1/18-2	23/2
ROUTE	F.A.P. 626		DESCRIPTION	Illinois 97	over Spoon F	River, Pro	pose	d Pie	er 5	LO	GGED B	Y SCI	(AF
ECTION	(44-B-1)E	BR	LOCATIO	N NW 1/4	, SEC. 10, TW	/P. 9N, RI	NG. 3	E, 4	th PM				_
OUNTY	Кпох	CORIN	G METHOD	Wire Line				_	R E	R	CORE	S	P
STRUCT. NO. Station	048-0100 (Prop 1969+15.0	posed) 00	CORING BARR		Split Ba	<u> </u>		C	COV	Q Q	T I M	R E N	
Station	B-106 1970+57		Top of Rock Begin Core	Elev.	512.5 ft 511.0 ft		P T H	R E	E R Y	D	E	G T H	
Offset	33.0 ft LT							(#)	(%)	(0/.Vr	nin/ft)	(tsf)	(
Ground Surfa	ice Elev. 54	9.0 <b>f</b>	t				(11)	(#)	( /0)	( /0)(1	illivit)	(LSI)	1
						490.3	_						L
Boring termina	ted at 58.7 ft.					-	-						
							-60						
						_							
						_							
						-	_						
						_	_						
							_						
						-	_						
							$\perp$						
						-	-65						
							_						
						-	_						
							_						
						-	_						
							_						
						_							
						_							
						_	-70						
							$\exists$						
						_							
							$\Box$						
						_							
						_							
							_						
						_							
						_	-75						
						_							
							$\neg$						

Color pictures of the cores Yes

Cores will be stored for examination until

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE =	CHECKED -	REVISED



SOIL BORING LOGS	F.A.P. SECTION				COUNTY	TOTAL	SHEE NO.
STRUCTURE NO. 048-0100	626	(44-B-1)BR			KNOX	122	85
					CONTRACT	NO.	68759
SHEET NO. 55 OF 62 SHEETS			ILLINOIS	FED. A	AID PROJECT		