



SOIL BORING LOG

Date 11/29/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,
 Latitude , Longitude
 COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO.	N/A	D	B	U	M	Surface Water Elev.	N/A	D	B	U	M
Station	N/A	E	L	C	O	Stream Bed Elev.	N/A	E	L	C	O
BORING NO.	B-11	P	O	S	I	Groundwater Elev.:		T	W	S	S
Station	10+91.65	H	S	Qu	T	First Encounter	N/A	H	S	Qu	T
Offset	220.7 ft RT	(ft)	(/6")	(tsf)	(%)	Upon Completion	N/A	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev.	515.44					After N/A Hrs.	N/A				
SILTY LOAM: Brown (A-4)	513.94	2				SHALEY CLAY: Dark gray, with sandstone fragments	495.19 494.44		16	P	18
SANDY LOAM: Brown (A-4)		2	0.5	11		SILTSTONE: Light gray		31	9.1	B	11
		1	S					50/3"			
		2				SHALEY CLAY: Gray, with iron staining (A-7)	492.69 492.52 491.94	32	50/2"	3.0	14
		3	<0.25	9		SANDSTONE					
		3	P			Auger refusal at 23.5 ft.					
		5				Borehole continued with rock coring.					
		3	<0.25	13							
		4	P								
SHALEY CLAY: Brownish gray, with sandstone fragments (A-6)	505.94	5		8							
		6	3.0								
		3									
		5	2.0	14							
		4	P								
SHALEY CLAY: Gray, with iron staining (A-7)	501.69	6		18							
		10	4.5								
		6									
COAL: Black (8 inches)	499.44	6									
SHALE: Gray	498.77	38	5.3	32							
		50/4"	B								
		13									
		10	4.5	10							
SANDSTONE	495.94	50/4"	P								
		20									

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)



ROCK CORE LOG

Date 11/29/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,
 Latitude , Longitude
 COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.	N/A	CORING BARREL TYPE & SIZE		NX conv dbt bbl	D	C	R	R	CORE	S
Station	N/A	Core Diameter	1.9	split inner						
BORING NO.	B-11	Top of Rock Elev.	492.44	ft	(ft)	(#)	(%)	(%)	(min/ft)	(tsf)
Station	10+91.65	Begin Core Elev.	491.94	ft						
Offset	220.7 ft RT									
Ground Surface Elev.	515.44									
SHALEY CLAY: Light gray (2 inches)	491.94				1	98	85			
LIMEY SANDSTONE: Gray (1 inch)	491.77									
SANDSTONE: Brown and gray (2 inches)	491.69									
SILTSTONE: Light gray (8 inches)	491.52									
CLAYEY SHALE: Light gray	490.86									
SHALEY CLAY: Gray	487.61									
CLAYEY SHALE: Gray	487.02				2	100	85			
SHALEY CLAY: Light gray	486.27									
Becomes black										
31' 1" - 0.5-inch coal seam										
Becomes brownish gray										
	483.15									
SILTSTONE: Light gray										
SANDSTONE: Light gray	481.52				3	100	80			
SILTSTONE: Light gray	481.11									
SANDSTONE: Gray	480.56									
SHALEY CLAY: Gray	480.44									
SANDSTONE: Gray, coarse	480.08									
SHALEY CLAY: Gray	479.94									
CLAYEY SHALE: Light gray to black	478.02									
SANDSTONE: White and black	477.11									
SHALEY CLAY: Light gray	476.86									
SANDSTONE: Gray	476.48									
Becomes white										
End of Boring	475.61									

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)