Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

Page 1 of 1

Date 11/30/11

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
Station N/A

BORING NO. B-13
Station 13+32.23
Offset 274.3 ft RT
Ground Surface Elev. 518.46 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY LOAM: Brown, trace gravel (A-4)			2		
			3 3	0.8 P	18
			3		
			5 4	1.5 P	9
	512.96	-5			
SANDY LOAM: Brown (A-4)			2		
			3 3	0.3 P	9
			2		
			4 4	<0.25 P	10
	505.46	-10			
SILTY CLAY LOAM: Brown (A-6)			1		
			2 4	1.6 B	20
	502.96	-15			
SANDY LOAM: Gray and brown, with sandstone fragments (A-2)			2		
			3 3	<0.25 P	13
	500.46				
SHALEY CLAY: Gray, with iron staining (A-7)			3		
			6 11	2.8 S	18
		-20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	498.13				
COAL: Black (10 inches)	497.29				
SILTSTONE: Gray, trace coal			25		
			44 42	4.5 P	11
	494.96				
SHALEY CLAY: Gray, with iron staining (2 inches) (A-7)	494.79 494.46		50/3"	4.0 P	22
LIMESTONE Auger refusal at 24.0 ft.		-25			
Borehole continued with rock coring.		-30			
		-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, form 137 (Rev. 8-99)

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ROCK CORE LOG

Page 1 of 1

Date 11/30/11

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
Station N/A

BORING NO. B-13
Station 13+32.23
Offset 274.3 ft RT
Ground Surface Elev. 518.46 ft

CORING BARREL TYPE & SIZE NX conv dbl bbl split inner

Core Diameter 1.9 in
Top of Rock Elev. 494.79 ft
Begin Core Elev. 494.46 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Dark gray	494.46		1	70	50		
	493.33	-25					
SHALEY CLAY: Dark gray							
	491.46						
LIMESTONE: Dark gray	490.92						
LIMEY SHALE: Gray	490.38						
SHALEY CLAY: Light gray							
			2	87	85		
		-30					
	486.46						
CLAYEY SHALE: Gray	485.71						
SHALEY CLAY: Light gray							
Becomes dark gray			3	100	77		
		-35					
	482.96						
CLAYEY SHALE: Black	482.67						
SHALEY CLAY: Black	482.29						
SILTSTONE: Light gray							
	480.21						
SHALEY CLAY: Gray							
	479.38						
CLAYEY SHALE: Gray			4	100	93		
		-40					
	478.17						
SHALEY CLAY: Gray	478.04						
SANDSTONE: Gray							
	474.46						

End of Boring

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)

FILE NAME = BRORING FILE-sheets .dgn	USER NAME = aubreygs	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORINGS LOG	F.A.P RTE. 317	SECTION (18)I	COUNTY FULTON	TOTAL SHEETS 47 / SHEET NO. 27
		DRAWN -	REVISED -						
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68A25	
Default	PLOT DATE = 3/21/2013	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		