Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

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Date 12/13/11

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-06
Station 15+53.29
Offset 107.9 ft RT
Ground Surface Elev. 495.47 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 (%)
CLAY: Brown and gray, trace sandstone fragments, sand, gravel, and coal (A-7)			3		
			2 4	1.3 P	22
	492.47				
SILTY CLAY: Brown, trace sandstone fragments, sand, and gravel (A-6)			2		
		-5	2 4	0.6 B	17
	489.97				
LIMESTONE RIP-RAP ???			2		
			1 1		
	486.80		2		
CLAY: Gray, with sandstone fragments (A-7)	486.22	-10	2 2	0.8 B	17
SHALEY CLAY: Gray, with iron staining (A-7)	483.97		3		
CLAYEY SHALE: Gray, with iron staining			7 13	4.0 P	17
With black layers			6		
		-15	11 14	>4.5 P	17 16
	479.97				
SILTSTONE: Light gray, with iron staining			10		
Becomes brownish gray, trace sand			25 41	>4.5 P	10 9
	477.47				
SHALEY CLAY: Gray, trace sand and iron staining (A-6)	476.22		17		
		-20	18 25	1.5 P	21 14

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY SHALEY CLAY: Gray, trace sand and iron staining (A-6) *(continued)*	474.97		33	4.1 S	
CLAYEY SHALE: Gray			50/4"	>4.5 P	13
	472.47				
SANDSTONE: Gray Auger refusal at 23.5 ft.	471.97		50/2"		7
Borehole continued with rock coring.		-25			
		-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

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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-06
Station 15+53.29
Offset 107.9 ft RT
Ground Surface Elev. 495.47 ft

CORING BARREL TYPE & SIZE NX conv dbl bbl split inner
Core Diameter 1.9 in
Top of Rock Elev. 472.47 ft
Begin Core Elev. 471.97 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SANDSTONE: Gray, slightly to moderately weathered	471.97		1	97	80		
		-25					
26' 6.75" - 1/2" clay seam							
27' 0.5" - 1.5" shale seam	468.01						
CLAYEY SHALE: Dark gray	467.76						
SANDSTONE RUBBLE	466.97						
??????????			2	100	73		
		-30					
	463.51						
CLAYEY SHALE: Light gray to tan							
Becomes light gray			3	100	88		
		-35					
Becomes gray	459.22						
SHALEY CLAY: Gray	458.72						
SANDY SHALE: Gray	457.97						
SHALEY CLAY: Light gray	457.64						
SANDSTONE: Gray, argillaceous (3.5-inch layer)	457.34						
SHALE: Dark gray	456.76						
Interbedded black shale and gray sandstone	455.89						
End of Boring		-40					

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 = BRDING 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. 21
		DRAWN -	REVISED -					CONTRACT NO. 68A25		
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -							
Default	PLOT DATE = 3/21/2013	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			