Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

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Date 12/1/11

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-15
Station 15+74.64
Offset 307.0 ft RT
Ground Surface Elev. 513.53 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, trace sand and gravel (A-7)			2		
			4 5	2.8 B	20
			2		
	508.95		4 8	2.6 B	17
SHALEY CLAY: Brown (A-6)		-5			
			8		
			8 8	4.0 P	14
	505.53				
SANDY LOAM: Brown, with iron staining (A-2)			7		
			6 11		11
		-10			
With sandstone fragments			2		
			7 24		11
			50/5"		10
		-15			
	498.03				
SILTY SHALE: Brown			17		
	497.03				
CLAYEY SHALE: Gray (3 inches)	496.78		33		6
SHALEY CLAY: Brown (2 inches)	496.61		38		
CLAYEY SHALE: Dark gray	495.53				
SILTSTONE: Gray			14		
			34		9
		-20	50/5"		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTSTONE: Gray *(continued)*	492.53				
COAL: Black (6 inches)	492.03		27		
SILTSTONE: Gray, with coal			50/4"		10
Auger refusal at 23.5 ft.	490.03				
Borehole continued with rock coring.			50/0"		
		-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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Date 12/1/11

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-15
Station 15+74.64
Offset 307.0 ft RT
Ground Surface Elev. 513.53 ft

CORING BARREL TYPE & SIZE NX conv dbl bbl split inner
Core Diameter 1.9 in
Top of Rock Elev. 490.03 ft
Begin Core Elev. 490.03 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Dark gray, slightly weathered	490.03		1	100	88		
SHALEY CLAY: Dark gray, soft, highly weathered	489.53						
CLAYEY SHALE: Dark gray, moderately soft, highly weathered	488.61	-25					
SHALEY CLAY: Light gray, soft	488.03						5.8
SILTSTONE: Light gray, moderately soft, highly weathered	487.11						
SHALEY CLAY: Light gray	486.03						
SANDSTONE: Gray	485.11		2	100	88		
SHALEY CLAY: Gray	484.95						
SANDSTONE: Gray	484.65						
CLAYEY SHALE: Light gray	483.57	-30					
Becomes gray			3	100	93		
SHALEY CLAY: Light gray to black	478.86	-35					
1.5-inch coal seam	477.78						
CLAYEY SHALE: Dark gray	477.65						
SHALEY CLAY: Light gray	477.20						
SILTSTONE: Light gray	475.36		4	100	53		
SANDSTONE: Light gray	473.65	-40					
CLAYEY SHALE: Dark gray	473.15						
SHALEY CLAY: Gray	472.70						
End of Boring	472.03						

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)