Illinois Department of Transportation
Division of Highways
ILLINOIS DOT

SOIL BORING LOG

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Date 12/5/11

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-01
Station 11+06.45
Offset 15.1 ft RT
Ground Surface Elev. 483.75 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

	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, sand, fine to coarse, with fine to coarse gravel (A-3)	482.67		3		
FILL: Gray, silt, trace crushed rock (A-4)	481.50		3 3	4.5 P	15
SANDY CLAY: Brown (A-6)	480.75		3		
SAND: Brown, fine to medium, trace gravel (A-2)		-5	4 4	4.0 P	12
	477.25		12		
SANDSTONE Auger refusal at 7.0 ft.	476.75		50/5"		6
Borehole continued with rock coring.		-10			
		-15			
		-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)

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ROCK CORE LOG

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Date 12/5/11

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-01
Station 11+06.45
Offset 15.1 ft RT
Ground Surface Elev. 483.75 ft

CORING BARREL TYPE & SIZE NX conv dbl bbl split inner

Core Diameter 1.9 in
Top of Rock Elev. 477.25 ft
Begin Core Elev. 476.75 ft

	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SANDSTONE: Tan	476.75		1	92	25		
Becomes gray							
Some cross-bedding		-10					
			2	100	60		
	469.67						
Black shale seam - 2.5 inches	469.54						
SANDSTONE: Tan, cross-bedded		-15					
16' 8" - 3/8-inch clay seam 16' 8.75" - 3/4-inch clay seam 17' 1.75" - 1/2-inch clay seam	465.75						
SHALEY CLAY: Light gray			3	100	88		
	463.87	-20					
CLAYEY SHALE: Light gray	462.92						
SHALE: Black and gray	461.75						
End of Boring		-25					

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)