SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date 12/8,12/2011

ROUTE <u>C. H. 11</u>	DESCRIPTIO	ON	PTB	155-45 W. O. 16 - Slop	e Failure LOGGED BY SCI			
SECTIONN/A	LOC	ATION .	Dunca	n Mills, Illinois, SEC. 8, de , Longitude	TWP. 4N, RNG. 3E,			
COUNTY Fulton		LING METHOD			HAMMER TYPE	AUTO		
STRUCT. NO. N/A Station N/A	D B E L P O	С	M O I	Surface Water Elev Stream Bed Elev	N/A ft N/A ft			
BORING NO. B-07 Station 14+69.08 Offset 103.8 ft RT Ground Surface Elev. 496.2		Qu	S T (%)	Groundwater Elev.: First Encounter Upon Completion After <u>N/A</u> Hrs.				
TOPSOIL - 15 inches								
CLAY: Brown, trace gravel, sand and iron deposits (A-7)	<u>494.99</u> 1 1, 2 2	1.4	22					
SILTY CLAY: Brown (A-6)			21					
CLAY: Brown (A-7)	491.245 2							
SHALEY CLAY: Gray, with sandstone fragments (A-7)	<u>489.74</u> 1 3 3	1.3	18					
CLAYEY SHALE: Gray, with irol staining and coal	<u>486.99</u> <u>1</u> <u>-10</u> 7 <u>485.74</u>	4.3	20 21					
SHALE: Light gray, with iron staining	5 7 11	5.2	11					
	6 11 5 15	>4.5	13					
Interbedded with sandstone	478.74 11 478.74 32) >4.5	10					
SANDSTONE (hard drilling)								
Auger refusal at 19.0 ft. Borehole continued with rock coring.	477.24 50/-	4"	8					

Illinois Department Page <u>1</u> of <u>1</u> **ROCK CORE LOG** of Transportation Division of Highways Date 12/8,12/2011 LOGGED BY SCI C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure ROUTE LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E Latitude , Longitude SECTION N/A CORE S CORING METHOD Rotary, surface set diamond bit R COUNTY Fulton R Е NX conv dbl bbl С Т R . Q N/A CORING BARREL TYPE & SIZE ______ split inner STRUCT. NO. O V D С - L Е N/A Station М 0 Ν Е **Core Diameter** 1.9 _ in . D P R T E Е Е G 478.74 ft Top of Rock Elev. BORING NO. B-07 R Т Begin Core Elev. 477.24 . ft 14+69.08 Station н Υ н Offset 103.8 ft RT (ft) (#) (%) (%) (min/ft) Ground Surface Elev. 496.24 ft (tsf) SANDSTONE: Gray, slightly to moderately weathered 19' 0" - 3-inch vertical joint 100 82 477.24 1 -20 20' 10" - 15-inch vertical joint 22' 6.5" - 3-inch vertical joint 22' 9.5" - 2-inch shaley clay seam 23' 3" - 7-inch vertical joint 24' 0" - 3-inch vertical joint 24' 5" - 1-inch clay and gravel seam 100 80 2 -25 Becomes banded <u>470.74</u> CLAYEY SHALE: Light gray <u>467.91</u> SANDY SHALE: Light gray 29' 0" - 1.25-inch clay seam, with fine shale gravels 95 92 3 -30 <u>464.82</u> SHALE: Gray Becomes black (varved) 462.24 End of Boring -35

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)

Color pictures of the cores Yes Cores will be stored for examination until

FILE NAME =	USER NAME = aubreygs	DESIGNED -	REVISED -			_		
BROING FILE-sheets .dgn		DRAWN -	REVISED -	STATE OF ILLINOIS			SOIL	BORINGS
	PLOT SCALE = 2.0000 ' / In.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				
Default	PLOT DATE = 3/21/2013	DATE –	REVISED -		SCALE:	SHEET	OF	SHEETS

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938) BBS, form 138 (Rev. 8-99)

> SHEET NO. TOTAL SHEETS F.A.P RTE. SECTION COUNTY GS LOG FULTON 47 22 317 (18)I CONTRACT NO. 68A25 S STA. TO STA. ILLINOIS FED. AID PROJECT