


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3
Date 9/28/07


ROUTE FAS 739 DESCRIPTION Eldred-Hillview Road over Cole Creek LOGGED BY E. Stewart

SECTION 401-2BR LOCATION NW 1/4, SEC. 4, TWP. 9N, RNG. 13W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. Station	BORING NO. Station Offset	Ground Surface Elev.	SOIL				TESTS			
			D	B	U	M	D	B	U	M
			(ft)	(#)	(tsf)	(%)	(ft)	(#)	(tsf)	(%)
Surface Water Elev. _____ ft										
Stream Bed Elev. _____ ft										
Groundwater Elev.:										
First Encounter _____ ft										
Upon Completion _____ ft										
After _____ Hrs.										
Light Greenish Gray Clay LOAM (continued)										
447.5			6	1.00	5		1	1.04	27	
Brown Silty Clay LOAM										
425.0			4	0.18	13		1	0.81	27	
Gray Silty LOAM										
422.5			2	0.19	20		1	0.62	25	
Light Brown CLAY										
449.0			1	0.31	23		1	1.40	27	
Light Greenish Gray Clay LOAM										
414.0			1	0.49	24		2	0.55	28	
Fine to Coarse SAND with some Gravel & Loam See Gradation @ 40 ft										
40			0	0.23	28		12	16	14	
			0				12	12	14	

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, from 137 (Rev. 8-99)



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STRUCT. NO. Station	BORING NO. Station Offset	Ground Surface Elev.	SOIL				TESTS			
			D	B	U	M	D	B	U	M
			(ft)	(#)	(tsf)	(%)	(ft)	(#)	(tsf)	(%)
Surface Water Elev. _____ ft										
Stream Bed Elev. _____ ft										
Groundwater Elev.:										
First Encounter _____ ft										
Upon Completion _____ ft										
After _____ Hrs.										
Fine to Coarse SAND with some Gravel & Loam See Gradation @ 40 ft (continued)										
389.5			7				1	1.55	12	
GRAVEL										
389.0			17	NC			1	1.55	12	
Weathered Gray SHALE										
403.5			23				1	1.55	12	
Light Brown Clay Lens										
400.0			16	NC			1	1.55	12	
Coarse to Medium SAND See Gradation @ 50 ft										
389.0			22				1	1.55	12	
Fine to Coarse SAND with some Gravel See Gradation @ 60 ft										
380.0			39	NC			1	1.55	12	
Borehole continued with rock coring.										
380.0			2				1	1.55	12	
Fine to Coarse SAND with some Gravel See Gradation @ 60 ft										
380.0			12				1	1.55	12	
			12				1	1.55	12	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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ROCK CORE LOG

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Date 9/28/07

ROUTE FAS 739 DESCRIPTION Eldred-Hillview Road over Cole Creek LOGGED BY E. Stewart

SECTION 401-2BR LOCATION NW 1/4, SEC. 4, TWP. 9N, RNG. 13W, 3 PM

COUNTY Greene CORING METHOD _____

STRUCT. NO. Station	BORING NO. Station Offset	Ground Surface Elev.	CORING				RECORDED	CORRECTION	CORE LENGTH
			D	B	U	M			
			(ft)	(#)	(tsf)	(%)	(min/ft)	(tsf)	
CORING BARREL TYPE & SIZE									
Core Diameter _____ in									
Top of Rock Elev. _____ ft									
Begin Core Elev. _____ ft									
379.95			96	57	20.47				
Light Gray to White SHALE (Strong & Dry)									
379.95			96	57	2.13				
			96	57	5.52				
			96	57	7.98				
			96	57	7.97				
			96	57	9.33				
			96	57	12.17				
372.95									
Weathered Gray SHALE									
371.95									
End of Boring and Rock Core									

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)

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

SOIL BORING LOGS

SHEET NO. 20	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	739	401-2BR	GREENE	150	53
21 SHEETS	S.N. 031-0041		CONTRACT NO. 76410		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		