

SOIL BORING LOG

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Date 02/09/12 ROUTE FAP Route 42 (IL 127) DESCRIPTION IL 127 Over Kaskaskia River LOGGED BY SCI (CLM) SECTION 1-1BR-2 LOCATION Carlyle, IL, SEC. 31, TWP. 2N, RNG. 2W COUNTY ___ Clinton DRILLING METHOD MUD ROTARY D B U M Surface Water Elev.
P O S I
T W S Groundwater Elev.:
H S Qu T Hospital Completion STRUCT. NO. T W S Qu T BORING NO. Upon Completion
After ___ Hrs. (ft) (/6") (tsf) (%) Soft material, weight of casing.
Casing pushed in to seal off for mud rotary drilling (continued) ASPHALT - 5 inches REINFORCED CONCRETE - 5 435.2 inches Open air below bridge deck Began mud rotary drilling at 22.75 feet CLAY: Brown, some sand, trace gravel 0.6 B SILT: Brown, trace clay nodules 0.2 B Atterberg limits test performed SILTY LOAM: Brown NC [A-4]
Sample too disturbed for a
UCS test Atterberg limits test performed 4 4 0.9 B SAND: Gray, trace organics, Flowing water
Soft material, weight of casing.
Casing pushed in to seal off for mud rotary drilling SANDY LOAM: Fine, trace gravel [A-3] GSA performed

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

AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

SAND: Brown and gray, fine to coarse, with gravel [A-2] GSA performed



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ROUTE		Division of Highways SCI Engineering	30	IL BORING I	
COUNTY Clinton DRILLING METHOD MUD ROTARY HAMMER TYPE Manual	FAP Route 42 (IL 127) DESCRIPTION	N	L 127 Over Kaskaskia River	LOGGED BY SCI (CL
STRUCT. NO.	SECTION1-1E	BR-2 LOCAT	FION Carlyle	e, IL, SEC. 31, TWP. 2N, RNG	. 2W
Station 140+00 P O S I	COUNTY Clinton	DRILLING METHOD	M	IUD ROTARY HAI	MMER TYPE Manual
Station 135+45 9 ft RT (ft) (fe") (tsf) (fe") (tsf) (fe") (tsf) (fe") (tsf) (fe")	STRUCT. NO. 014-0 Station 140+	+00 E L P O	C O S I	Surface Water Elev. Stream Bed Elev.	421.1 ft 421.0 ft
GRAVEL: Coarse [A-1] SAND: Gray, some gravel [A-2] 394.5 18 NC 18 27 18 23 NC 45 16 SHALEY CLAY to CLAYEY SHALE based on drilling fluid observations SHALE: Gray 50/5* 18 23 NC 45 18 23 NC 45 18 23 NC 45 16 SHALE: Gray 50/0.5* NA Boring terminated at 53.5 ft. 50/0.5* NA	Station 135+ Offset 9 ft F	H S	Qu T	First Encounter Upon Completion	<u></u> ft
[A-1] SAND: Gray, some gravel		436.0 ft (π) (/o")	(tst) (%)	After Hrs	ft
SHALEY CLAY to CLAYEY SHALEY CLAY to CLAYEY SHALE based on drilling fluid observations SHALE: Gray no sample recovery Boring terminated at 53.5 ft. 18 27 18 18 27 18 18 27 18 18 27 18 18 18 27 18 18 18 19 27 18 18 18 19 27 18 18 19 18 18 19 18 19 18 18					
23 NC 45 16 SHALEY CLAY to CLAYEY SHALE SHALE: Gray 387.5 SHALE: Gray 387.5 50/2" NA Boring terminated at 53.5 ft. 50/0.57 NA		18	NC		
23 NC 45 16 SHALEY CLAY to CLAYEY SHALE SHALE: Gray 387.5 SHALE: Gray 387.5 50/2" NA Boring terminated at 53.5 ft. 50/0.57 NA					
SHALEY CLAY to CLAYEY SHALE based on drilling fluid observations SHALE: Gray SHALE: Gray 10		23	NC		
0bservations 387.5 50/5" 2.6 11 50/2" NA 50/0.5" NA Boring terminated at 53.5 ft. 50/0.5" NA	SHALE				
SHALE: Gray		\exists			
no sample recovery S/15 NA -50 N	CHAIE. Cray				
no sample recovery Boring terminated at 53.5 ft. 50/0.5 NA	SHALE. GIAY				
Boring terminated at 53.5 ft. 50/0.57 NA	no sample recovery	\50/2"/	/ NA		
	Boring terminated at 53.5 fl	382.5 t. 50/0.51	7 NA		
7	Boring grouted to 53.5 ft.				
		_			

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AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - JTH	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 2/1/2013	CHECKED - RLM	REVISED

SOIL BORING LOG B-5	F.A.P. RTE.	A.P. SECTION		COI	YTNL	TOTAL SHEETS	SHEE NO.
STRUCTURE NO. 014-0033	42	1-1BR-2		CLI	NTON	159	125
				CON	NTRACT	NO. 1	76479
SHEET NO. 56 OF 61 SHEETS		ILLIN	DIS FED.	AID PROJ	ECT		