STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

ROUTE FAP 682 DESCRIPTION IL 4 over Plum Creek North of Sparta LOGGED BY Larry Ford
Date 2/13/01
SECTION 21BR LOCATION NE, SEC. 13, TWP. , RNG. , PM
COUNTY Randolph DRILLING METHOD Hollow Stem Auger/Automatic HAMMER TYPE 140#

STRUCT. NO. 079-0006
Station 792+87.98
BORING NO. #1 SABUT
Station 792+51.5
Offset 11.00ft Right
Ground Surface Elev. 454.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion 433.5 ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
452.5			
Asphalt & Concrete Approach Slab			
Rock & Rubble			
Brown & Gray Silty Clay LOAM FILL			
-5	2		
	2	0.6	
	2	S/20	23
	2		
	1	0.3	
	1	B	24
-10	1		
	2	1.2	
	3	B	24
	2		
	2	0.8	
	4	S/15	25
-15	2		
	3	1.3	
	3	S/10	24
	3		
	3	0.9	
	3	S/15	20
-20			

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
433.5 ▽	2	1.0	
	3	S/10	24
Brown & Gray Silty CLAY	4		
	3		
	4	2.0	
	5	B	23
430.0			
Brown & Gray LOAM			
-25	4		
	5	1.8	
	10	S/10	26
427.5			
Brown & Gray Clay LOAM	4		
	5	2.4	
	7	S/10	24
-30	4		
	5	2.0	
	6	S/10	23
422.0			
Gray Silty CLAY	2		
	2	0.8	
	4	S/15	25
-35	3		
	7	2.0	
	8	S/20	21
-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, from 137 (Rev. 8-99)

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Upon Completion 433.5 ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray Silty CLAY (continued)	3	1.9	
	5	S/5	22
412.0	6		
Brown & Gray Very Weathered SHALE			
-45	5		
	6	2.6	
	9	S/15	23
-50	7		
	13	4.7	
	18	S/15	19
402.5			
Brown & Gray SHALE w/ Weathered Limestone GRAVEL			
-55	18		
	19	NC	
	50/3"		16
-60			

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown & Gray SHALE w/ Weathered Limestone GRAVEL (continued)	12		
393.0	28	NC	
End of Boring	50/6"		14
-65			
-70			
-75			
-80			

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COUNTY Randolph DRILLING METHOD Hollow Stem Auger/Automatic HAMMER TYPE 140#

STRUCT. NO. 079-0006
Station 792+87.98
BORING NO. #2 NABUT
Station 793+32
Offset 11.00ft Left
Ground Surface Elev. 454.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion 440.0 ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
452.5			
Asphalt and Concrete Pavement			
Rock & Rubble			
Gray & Brown Silty Clay LOAM (Fill)			
-5	2		
	4	1.1	
	5	S/10	22
445.0			
Brown & Gray Silt LOAM	1		
-10	2	1.2	
	3	S/5	24
	5		
	11	1.0	
	14	S/5	20
	3		
	4	1.0	
440.0 ▽	5	S/10	25
Brown Silty Clay LOAM	2		
-15	4	1.0	
	4	S/10	26
	4		
	5	1.7	
435.0	6	S/15	23
Brown & Gray Silty CLAY			
-20			

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown & Gray Silty CLAY (continued)	3	1.5	
	5	S/15	24
	6		
	3		
	5	2.0	
	5	S/15	25
-25	3		
	4	1.1	
	4	S/10	25
427.0			
Brown & Gray LOAM	2		
	3	0.8	
	4	S/10	26
Sand Lense	6		
-30	5	0.9	
	5	S/15	23
422.0			
Gray SAND See Gradation	1		
-35	1	NC	
	1		19
417.0			
Gray Silty CLAY			
-40			

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DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray Silty CLAY (continued)	2	1.7	
	4	S/15	20
409.5	5		
Brown & Gray Very Weathered SHALE			
-45	6		
	5	5.4	
	15	S/15	18
-50	5		
	9	3.5	
	12	S/10	22
-55	7		
	15	3.5	
	31	S/10	21
397.0			
Gray SHALE			
394.5			
-60			

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray LIMESTONE (drilled)	50/2"	NC	
	—		
392.5	—		
Gray SHALE			
389.0 -65	50/5"	NC	8
End of Boring			
-70			
-75			
-80			

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SOIL BORING LOGS
STRUCTURE NO. 079-0050

SHEET NO. 21	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	682	21BR, 21-I-1	RANDOLPH	77	60
			CONTRACT NO. 76126		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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