Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group

SOIL BORING LOG

Page 1 of 1

Date 8/26/09

ROUTE FAP 698 DESCRIPTION Structure Replacement LOGGED BY KEG

SECTION (2)BR-1 & BR-2 LOCATION Granville Twp; Approx 1 mile N of IL 71; NE 1/4

COUNTY Putnam DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 078-0029 (existing)
Station

BORING NO. BS-1
Station 203+27
Offset 55.0 ft Rt
Ground Surface Elev. 633.65 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 621.2 ft ▼
Upon Completion – ft
After – Hrs. – ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Dark brown, silty clay loam (A-6)			2		
			2	2.0	23
			2	P	
	630.7				
FILL: Dark brown, clay loam (A-7)			2		
			3	2.0	22
		-5	2	P	
	627.7				
CLAY: Brown and gray (A-7)			3		
			4	3.0	22
			6	P	
Becomes brown			3		
			7	4.0	21
		-10	10	B	
Wash rotary drilling started at 11 feet.	622.4				
			4		
SAND: Brown, fine (A-3)			5	–	16
			5		
			2		
			3	–	
		-15	5		
Grades to trace fine gravel			1		
			2	–	
			4		
	615.7				
SAND: Brown, fine to coarse, some fine gravel, trace to some clay (A-1)			11		
			15	–	
		-20	13		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND: Brown, fine to coarse, some fine gravel, trace to some clay (A-1) (continued) Very hard drilling from 18.5 to 21 feet and 22 to 23.5 feet.			14		
			14	–	
			13		
			21		
			15	–	
		-25	16		
No recovery			100	–	
	605.2				
CLAY LOAM: Brown, trace fine gravel (A-7)			11		
			14	4.8	11
		-30	20	B	
	601.9				
SANDY LOAM: Brown, fine to medium, trace fine gravel (A-2)					
			11		
			17	–	15
	598.7	-35	36		
End of Boring					
		-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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group

SOIL BORING LOG

Page 1 of 1

Date 8/26/09

ROUTE FAP 698 DESCRIPTION Structure Replacement LOGGED BY KEG

SECTION (2)BR-1 & BR-2 LOCATION Granville Twp; Approx 1 mile N of IL 71; NE 1/4

COUNTY Putnam DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 078-0029 (existing)
Station

BORING NO. BS-2
Station 202+85
Offset 15.0 ft Lt
Ground Surface Elev. 638.04 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 612.0 ft ▼
Upon Completion – ft
After – Hrs. – ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, clay (A-7)			3		
			2	1.3	16
			4	P	
	635.0				
FILL: Dark brown, silty clay (A-7)			2		
			3	1.8	28
		-5	3	P	
	632.5				
CLAY: Brown, trace fine gravel (A-7)			3		
			5	1.8	16
			8	B	
			5		
			8	3.5	16
		-10	9	B	
Becomes brown and gray			5		
			7	3.5	18
			9	B	
			3		
			5	2.6	26
		-15	7	B	
			3		
			5	4.0	23
			7	B	
Becomes grayish brown			3		
			4	1.5	24
		-20	5	B	

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown, trace fine gravel (A-7) (continued)			3		
			3	2.9	21
			5	B	
			1		
			2	0.9	21
		-25	3	B	
	611.5				
SANDY CLAY: Brown (A-7)			1	–	25
			1		
	610.0				
SAND: Brown, fine (A-3) Wash rotary drilling started at 28.5 feet.			6		
			8	–	
		-30	9		
	606.5				
SAND: Brown, fine to coarse, some fine gravel, trace to some clay (A-1)					
			12		
Borehole grouted upon completion of drilling.			15	–	
	603.0	-35	16		
End of Boring					
		-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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group

SOIL BORING LOG

Page 1 of 1

Date 8/26/09

ROUTE FAP 698 DESCRIPTION Structure Replacement LOGGED BY KEG

SECTION (2)BR-1 & BR-2 LOCATION Granville Twp; Approx 1 mile N of IL 71; NE 1/4

COUNTY Putnam DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 078-0029 (existing)
Station

BORING NO. BS-3
Station 203+25
Offset 47.0 ft Lt
Ground Surface Elev. 632.79 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 619.3 ft ▼
Upon Completion – ft
After – Hrs. – ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Dark brown and brown, silty clay loam (A-6)			1		
			1	0.5	29
			2	P	
	629.8				
FILL: Grayish brown and dark brown, clay (A-7)			2		
			2	1.1	21
		-5	4	B	
	627.3				
CLAY: Brown, grayish brown, and dark brown (A-7)			2		
			4	2.2	20
			4	B	
Becomes brown			3		
			5	3.5	22
		-10	9	B	
			3		
			5	3.1	25
			8	B	
	619.8				
SAND: Brown, fine to medium, trace fine gravel (A-3) Wash bore drilling started at 13.5 feet.			3		
			7	–	
		-15	9		
			5		
			4	–	
			6		
	614.8				
SANDY LOAM: Brown, fine to coarse, some gravel (A-2)			11		
			15	–	
		-20	15		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	612.3				
SAND: Brown, fine (A-3)			6		
			10	–	
			13		
	609.8				
CLAY LOAM: Brown, trace fine gravel (A-7) Sample not conducive to strength testing in field and laboratory.			12		
			21	–	17
		-25	25		
Trace coarse gravel Sample not conducive to strength testing in field and laboratory.			13		
			19	–	14
			26		
			8		
			16	3.7	12
		-30	41	B	
			3		
			5	3.1	25
			8	B	
			8		
			14	2.9	11
	597.8	-35	23	B	
End of Boring					
		-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, form 137 (Rev. 8-99)

FILE: J:\JOB\60206 IL 89 AtForks Creek PH2\2-rdac-SHO\782010\078201-68571-008-Borings.dgn

SAVE DATE: 12/9/2011

FILE NAME = ...\078201O-68571-008-Borings.dgn	USER NAME = DCD	DESIGNED - KEG	REVISED -
		CHECKED -	REVISED -
Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	PLOT SCALE =	DRAWN - P. Ray	REVISED -
	PLOT DATE = 12/09/2011 6:37:21	CHECKED - DCD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 078-2010

SHEET NO. 8 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698	(2) BR-1 & BR-2	PUTNAM	71	47
	STA. 203+04	CONTRACT NO. 68571		
		ILLINOIS FED. AID PROJECT		