



SOIL BORING LOG

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R.L. Rendleman

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
Station 2778+11.13

BORING NO. 1 EB W. Abut
Station 2777+17.10
Offset 0.00ft CL EB
Ground Surface Elev. 540.18 ft

DEPTH H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. _____ ft	Stream Bed Elev. _____ ft	DEPTH H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
							9	1.20 B	18
							13	1.30 E	
-5						-25	8	1.14 E	
	10	1.40 B	23						
	8	1.37 B	24				15	1.40 B	22
531.7						511.7			
							60	NC	
	4	0.88 S	25						
	5	1.11 B	23				69	NC	
526.7						506.7			
	5	0.78 B	22				9	1.40 B	27
524.2									
	12	2.25 B	16				9	1.28 S	26
						501.7			
-20						-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)



Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

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STRUCT. NO. 003-0013/0014
Station 2778+11.13

BORING NO. 1 EB W. Abut
Station 2777+17.10
Offset 0.00ft CL EB
Ground Surface Elev. 540.18 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
15		2.15	21
		S	
18		2.78	19
		S	
20		2.61	
		E	
79		8.15+	11
77		8.15+	10
66		8.15+	10
57		8.15+	11

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion 531.2 ft ▽
After _____ Hrs. _____ ft

Gray Mottled with Brown Glacial Till with Small Grit, CLAY (continued)	496.7				
Brown Glacial Till with Small Grit, Silty CLAY	-45				
	-50				
	-55				
	-60				
End of Boring					

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)



SOIL BORING LOG

Date 5/8/63

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R.L. Rendleman

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
 Station 2778+11.13

BORING NO. 2 EB W. Pier
 Station 2777+63.85
 Offset 0.00ft CL EB
 Ground Surface Elev. 539.88 ft

DEPTH H (ft)	BLOWS S (/6")	UCS Qu (tsf)	MOIST T (%)	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft Groundwater Elev.: First Encounter _____ ft Upon Completion <u>532.9</u> ft ▽ After _____ Hrs. _____ ft	DEPTH H (ft)	BLOWS S (/6")	UCS Qu (tsf)	MOIST T (%)
				Gray Glacial Till, CLAY (continued) _____ 519.0	10	1.14	E	
				Gray Glacial Till with Bits of Organic Material, Silty CLAY				
					12	1.14	E	
-5	8	0.95 S	25		-25	11	1.14 E	
				▽				
	6	1.04 S	23			12	1.30 B	19
531.5								
				Gray Mottled with Brown, CLAY				
					-10	7	1.69 S	21
				509.0		10	1.14 E	
				Gray Glacial Till, Fine to Coarse SAND				
	6	1.80 S	23			53	NC	
526.5								
				Gray Glacial Till, Sandy SILT				
					-15	5	0.29 B	24
524.0						46	NC	
				Gray Glacial Till, CLAY				
	12	1.30 E						
				501.0				
				Greenish Gray Mottled with Brown Glacial Till, CLAY				
-20					-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)



Illinois Department of Transportation

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Illinois Department of Transportation

SOIL BORING LOG

Date 5/8/63

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SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
Station 2778+11.13

BORING NO. 2 EB W. Pier
Station 2777+63.85

Offset 0.00ft CL EB
Ground Surface Elev. 539.88 ft

DEPTH H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
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Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion 532.9 ft ∇
After _____ Hrs. _____ ft

Greenish Gray Mottled with Brown Glacial Till, CLAY (<i>continued</i>)		11	2.61	E
		18	2.74	20
496.5			B	
Brown Mottled with Gray Glacial Till with Small Grit, Silty CLAY				
-45		30	4.34	17
			B	
		79	8.15+	11
-50		93	8.31	9
			S	
		72	8.15+	9
-55		62	8.15+	8
484.0				
End of Boring				
-60				

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)



**Illinois Department
of Transportation**

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 4/23/63

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R.L. Rendleman

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
Station 2778+11.13

BORING NO. 3 EB E. Pier
Station 2778+25.35
Offset 0.00ft CL EB
Ground Surface Elev. 540.18 ft

D
E
P
T
H
(ft)

B
L
O
W
S
(/6")

U
C
S
Qu
(tsf)

M
O
I
S
T
(%)

Surface Water Elev. _____ ft

Stream Bed Elev. _____ ft

Groundwater Elev.: _____ ft

First Encounter _____ ft

Upon Completion 537.2 ft

After _____ Hrs. _____ ft

D
E
P
T
H
(ft)

B
L
O
W
S
(/6")

U
C
S
Qu
(tsf)

M
O
I
S
T
(%)

Dark Gray Mottled with Brown, Fat CLAY	518.2	19	3.26	B	
	515.7	18	2.09	B	17
	510.2	26			NC
	532.7	6	1.24	B	27
	530.2	6	1.11	B	25
Gray Mottled with Brown, CLAY	527.7	5	0.78	B	27
	525.2	6	0.65	S	22
Gray and Brown SILT	522.7	20	3.62	B	11
Gray Glacial Till with Small Grit, Silty Sandy CLAY	501.2				
	-20				

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)



SOIL BORING LOG

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R.L. Rendleman

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
 Station 2778+11.13

BORING NO. 4 EB E. Abut
 Station 2778+73.10
 Offset 0.00ft CL EB
 Ground Surface Elev. 540.48 ft

DEPTH H S Qu T ft (ft)	BLOW S Qu T (/6") (/6")	UCS Qu T (tsf) (tsf)	MOIST T (%) (%)	Surface Water Elev.	ft	DEPTH H S Qu T ft (ft)	BLOW S Qu T (/6") (/6")	UCS Qu T (tsf) (tsf)	MOIST T (%) (%)
				Stream Bed Elev.	ft				
							22	1.70	10
								S	
							12	1.82	16
								B	
-5	10	1.69	24			-25	11		
		B							
	7	1.66	21				10		
		B							
-10	5	1.17	25		510.6	-30	14	1.69	22
529.6		B						B	
	4	0.62	28				18	2.13	22
527.1		B						B	
	8	0.75	19		505.6	-35	14	1.82	19
		B						B	
523.1					503.1				
	9	1.37	17				12	1.59	23
		B						B	
520.6					500.6	-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)



SOIL BORING LOG

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R.L. Rendleman

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
 Station 2778+11.13

BORING NO. 4 EB E. Abut
 Station 2778+73.10
 Offset 0.00ft CL EB
 Ground Surface Elev. 540.48 ft

DEPTH H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
18		1.90 S	19
19			
496.6			
-45	110	4.89 E	10
100+		3.66 S	13
-50	87	8.15+	10
489.6			
-55			
-60			

Surface Water Elev. _____ ft
 Stream Bed Elev. _____ ft
 Groundwater Elev.:
 First Encounter _____ ft
 Upon Completion 529.5 ft ∇
 After _____ Hrs. _____ ft

Greenish Gray Glacial Till with Small Grit, CLAY

Reddish Brown Glacial Till with Small Grit, Sandy Silty CLAY

End of Boring

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

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 5/14/63

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R.L.R

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
Station 2778+11.13

BORING NO. 5 WB W. Abut
Station 2777+34.43
Offset 0.00ft CL WB
Ground Surface Elev. 540.28 ft

D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)
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Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter _____ ft
Upon Completion 531.3 ft ∇
After _____ Hrs. _____ ft

Gray Mottled with Brown Glacial Till, CLAY (continued) 499.2	11	2.19 B	20
Greenish Brown Mottled with Gray Glacial Till with Small Grit, CLAY 496.7	14	1.66 B	23
Pinkish Brown Glacial Till, SILT -45 493.2	30	3.26 S	16
Reddish Brown Glacial Till, Medium to Coarse SAND 491.7	100+	NC	
Brown Glacial Till with Small Grit, Silty CLAY -50 484.2	71	8.15+ S	10
	66	8.15+	9
	60	7.59 S	9
End of Boring -60			

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

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R. L. Rendleman

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
 Station 2778+11.13

BORING NO. 6 WB W. Pier
 Station 2777+81.18
 Offset 0.00ft CL WB
 Ground Surface Elev. 540.08 ft

DEPTH H (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)	Surface Water Elev. _____ ft	Stream Bed Elev. _____ ft	DEPTH H (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
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Brownish Gray Mottled with Rust, CLAY				Gray Glacial Till with Small Grit, Silty CLAY (continued)	519.1	28	6.31	11	
				Gray Glacial Till with Small Grit with Bits of Organic Material		17	2.21	10	
	-5	6	1.33 S			15	1.17 B	15	
		6	1.43 B						
531.6									
Gray Mottled with Brown Glacial Till, CLAY	-10	4	0.72 B			13	1.69 B	17	
		4	0.65 E						
	-15	8				12	1.82 B	19	
524.1					504.1				
Gray Glacial Till with Small Grit, Silty CLAY		19	1.30 S	Gray Mottled with Brown Glacial Till, CLAY					
	-20								

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)



SOIL BORING LOG

ROUTE FAI 70 **DESCRIPTION** I-70 over BNSF Railroad **LOGGED BY** R. L. Rendleman

SECTION 3-5VB **LOCATION** NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

COUNTY Bond **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** 140# Automatic

STRUCT. NO. <u>003-0013/0014</u>	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station <u>2778+11.13</u>	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
BORING NO. <u>6 WB W. Pier</u>	P	O	S	I	Groundwater Elev.:	T	O	W	S
Station <u>2777+81.18</u>	T	W	Qu	S	First Encounter _____ ft	H	S	Qu	T
Offset <u>0.00ft CL WB</u>	H	S	S	T	Upon Completion _____ ft	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev. <u>540.08</u> ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. _____ ft	(ft)	(/6")	(tsf)	(%)

Gray Mottled with Brown Glacial Till, CLAY <i>(continued)</i> 499.1	9	2.34 B	20	Brown Glacial Till with Small Grit, Silty CLAY <i>(continued)</i> 479.1	42	4.63 B	12
Greenish Gray Mottled with Brown Glacial Till with Small Grit, CLAY -45 494.1				End of Boring -65			
Brown Mottled with Pinkish Brown Glacial Till with Small Grit, Silty CLAY -50 489.1				-70			
Brown Glacial Till with Small Grit, Silty CLAY -55 -60				-75 -80			
		14	2.56 S	18			
		64	8.15+	10			
		62	8.15+	11			



SOIL BORING LOG

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R.L. Rendleman

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
Station 2778+11.13

BORING NO. 7 WB E. Pier
Station 2778+43.68
Offset 0.00ft CL WB
Ground Surface Elev. 540.38 ft

D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)
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Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion 537.4 ft ∇
After _____ Hrs. _____ ft

D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)
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Dark Brownish Gray Mottled with Brown CLAY				518.2	22	2.13 B	14
					16	4.30 B	12
	∇			515.7	14	2.04 B	25
Dark Brown Silty CLAY	-5	2	0.46 B	534.7	14	2.04 B	25
		6	1.69 B		16	1.53 B	25
Gray Mottled with Rust Glacial Till, CLAY							
		4	0.59 B	529.7	17	2.13 B	16
Brown Glacial Till with Small to Medium Grit, Sandy CLAY							
	-10	5	1.50 B	527.2	9	1.14 B	24
Gray Glacial Till with Small Grit, Sandy CLAY							
	-15	14	2.44 S	524.7	10	0.91 B	19
Gray Glacial Till with Small Grit, Sandy CLAY							
		21	5.67 S		10	1.07 B	20
				520.7			
	-20						

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)



Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 4/26/63

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R.L. Rendleman

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
Station 2778+11.13

BORING NO. 7 WB E. Pier
Station 2778+43.68

Offset 0.00ft CL WB
Ground Surface Elev. 540.38 ft

D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
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Surface Water Elev.	_____	ft
Stream Bed Elev.	_____	ft
Groundwater Elev.:		
First Encounter	_____	ft
Upon Completion	<u>537.4</u>	ft ▽
After _____ Hrs.	_____	ft

Gray Glacial Till with Small Grit & Bit of Organic Material, Silty CLAY (continued)	499.4	10	1.17 B	24
Gray Glacial Till with Small Grit, CLAY	497.2	16	2.04 B	18
Brown Glacial Till with Small to Medium Grit, CLAY	-45	59	6.26 B	13
	493.2	61	8.21 S	11
Brown Mottled with Pink Glacial Till with Small to Medium Grit, Silty CLAY and SILT	-50	70	8.15 S	10
	487.2	73	8.21 S	12
End of Boring	-55			
	-60			

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

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 4/16/63

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R.L. Rendleman

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
Station 2778+11.13

BORING NO. 8 WB E. Abut
Station 2778+90.43

Offset 0.00ft CL WB
Ground Surface Elev. 540.48 ft

D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)
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Surface Water Elev.	ft
Stream Bed Elev.	ft
Groundwater Elev.: First Encounter	ft
Upon Completion	ft
After 24 Hrs.	ft

D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)
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Brownish Gray Mottled with Brown Weathered Glacial Till, CLAY	-	-			Gray Glacial Till with Small to Medium Grit, Sandy Silty CLAY				S	
	-	-					21	4.56	11	
	▽	-								
	-	-			516.0					
	-5	8	1.33	26		-25	13	1.30	18	
535.0			B							
Dark Brown Weathered Glacial Till, CLAY	-	-			513.5		13	1.53	27	
	-	7	1.27	21						
532.5			S							
Reddish Brown Weathered Glacial Till, CLAY	▽	-					12	1.17	20	
	-10	4	0.78	28		-30				
530.0			B							
Gray Mottled with Rust Glacial Till, CLAY	-	-			508.5		12	0.91	22	
	-	4	0.75	24						
526.0			B							
Light Brownish Gray Glacial Till, Very Sandy CLAY	-15	19	0.88	19		-35	10	1.37	22	
			B							
523.5					503.5					
Gray Glacial Till with Small to Medium Grit	-	29	5.26	9			11	1.50	23	
	-		S							
521.0										
	-20	24	6.26	10		-40	12	1.69	20	

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)



SOIL BORING LOG

ROUTE FAI 70 DESCRIPTION I-70 over BNSF Railroad LOGGED BY R.L. Rendleman

SECTION 3-5VB LOCATION NE 1/4, SEC. 17, TWP. 5N, RNG. 2W, 3 PM

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

STRUCT. NO. 003-0013/0014
Station 2778+11.13

BORING NO. 8 WB E. Abut
Station 2778+90.43
Offset 0.00ft CL WB
Ground Surface Elev. 540.48 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
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Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter _____ ft
Upon Completion 531.5 ft ∇
After 24 Hrs. 537.5 ft ∇

Gray Mottled with Brown Glacial Till with Small Grit, CLAY (continued)			B	
498.5				
Gray Glacial Till with Small Grit, Sandy Silty CLAY	15	2.54	14	
496.5				
Brown Glacial Till with Small to Medium Grit, Sandy Silty CLAY	93	5.22	11	
-45				
	72	4.56		
491.5				
Reddish Brown Glacial Till with Small to Medium Grit, Sandy Silty CLAY	90	8.15	11	
-50				
	81	6.52	9	
487.5				
Brown Glacial Till with Small Grit, Sandy Silty CLAY	65	6.90	11	
-55				
485.0				
End of Boring				
-60				

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)