

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO. 038-2HVBR IROQUOIS 31 22
SHEET NO. 19

Boring No. 10
Station 1037+02
Offset 44' Rt E

Elevation	Z	Q _u (t/sf)	w (%)	
Ground Surface 659.77	0			
Stiff Black & Yellowish Brown CLAY				
656.27	6		19	
Very Stiff Yellowish Brown & Gray CLAY (Till)				
653.77	7	2.7	21	
Hard Brown & Gray CLAY (Till)				
648.77	16	3.5	20	
Very Stiff Gray CLAY (Till)				
648.77	13	4.7	18	
Very Stiff Gray CLAY (Till)				
648.77	9	3.1	19	
Very Stiff Gray CLAY (Till)				
648.77	9	3.0	21	
Very Stiff Gray CLAY (Till)				
648.77	9	2.8	20	
Very Stiff Gray CLAY (Till)				
648.77	9	2.6	20	
Very Stiff Gray CLAY (Till)				
648.77	11	2.5	20	
Very Stiff Gray CLAY (Till)				
648.77	11	2.8	20	
Very Stiff Gray CLAY (Till)				
648.77	13	3.0	19	
Medium Gray SANDY LOAM (Saturated)				
631.27	629.77	-30	2.4	20
Very Stiff Gray CLAY (Till)				
631.27	11	2.4	19	
Very Stiff Gray CLAY (Till)				
631.27	11	2.2	20	
Very Stiff Gray CLAY (Till)				
631.27	10	2.2	21	
Very Stiff Gray CLAY (Till)				
631.27	10	2.5	21	

Boring No. 11
Station 1037+26
Offset 22.5' Rt E

Elevation	Z	Q _u (t/sf)	w (%)
Ground Surface 659.77	-20		
Very stiff gray CLAY (Till)			
613.77	13	2.6	21
Very stiff Gray CLAY (Till)			
613.77	12	2.7	24
Very stiff Gray CLAY (Till)			
613.77	12	2.2	25
Very stiff Gray CLAY (Till)			
613.77	18	3.7	22

Surface Water El. None
Groundwater El. at Completion None
After 24 Hours None

Boring No. 11
Station 1037+26
Offset 22.5' Rt E

Elevation	Z	Q _u (t/sf)	w (%)	
Ground Surface 660.50	0			
Very Stiff Black & Yellowish Brown CLAY				
656.00	8	3.5	23	
Soft Yellowish Brown & Gray CLAY				
654.50	3	0.4	22	
Hard Brown CLAY (Till)				
652.00	13	6.6	22	
Very Stiff Brown & Gray CLAY (Till)				
609.50	10	3.7	20	
Hard Gray CLAY LOAM (Till)				
609.50	11	2.3	20	
Loose Gray SILT				
646.00	6		21	
Very stiff Gray CLAY (Till)				
646.00	11	2.5	21	
Very Stiff Gray CLAY (Till)				
646.00	7	2.2	21	
Very Stiff Gray CLAY (Till)				
646.00	10	2.7	20	
Very Stiff Gray CLAY (Till)				
646.00	11	2.7	21	
Very Stiff Gray CLAY (Till)				
646.00	12	2.8	17	
Medium Gray SILT				
632.00	630.50	-30		20
Very Stiff Gray CLAY (Till)				
632.00	12	3.3	19	
Very Stiff Gray CLAY (Till)				
632.00	11	2.5	20	
Very Stiff Gray CLAY (Till)				
632.00	10	2.3	21	
Very Stiff Gray CLAY (Till)				
632.00	10	2.9	21	

Boring No. 12
Station 1037+44.5
Offset 42' Rt E

Elevation	Z	Q _u (t/sf)	w (%)
Ground Surface 660.50	-40		
Medium Gray SILT (Saturated)			
619.50	10		20
Very Stiff Gray CLAY (Till)			
617.00	13	2.0	22
Very Stiff Gray CLAY (Lacustrine)			
614.50	12	2.4	23
Hard Gray CLAY LOAM (Till)			
609.50	16	3.7	25
Gray SILT (Saturated)			
606.50	17	5.0	12
Hard Gray CLAY LOAM (Till)			
606.50	10		13
Dense, Light Gray, Medium Bedded limestone (cored)			
602.80			
Rock Core			
598.30			

Surface Water El. None
Groundwater El. at Completion None
After 13 Hours 547.6

Boring No. 12
Station 1037+44.5
Offset 42' Rt E

Elevation	Z	Q _u (t/sf)	w (%)
Ground Surface 661.51	0		
Bankment			
659.51			
Stiff Black & Yellowish Brown CLAY			
657.51	7	2.0	23
Very Stiff Yellowish Brown & Gray CLAY (Till)			
658.01	5	2.3	28
Hard Brown & Gray CLAY (Till)			
652.51	13	4.9	18
Very Stiff Brown & Gray CLAY (Till)			
650.01	10	5.3	18
Stiff Gray CLAY (Till)			
645.01	6	1.3	22
Very Stiff Gray CLAY (Till)			
645.01	6	1.2	22
Very Stiff Gray CLAY (Till)			
645.01	10	2.3	21
Very Stiff Gray CLAY (Till)			
645.01	10	2.4	20
Very Stiff Gray CLAY (Till)			
645.01	11	2.4	20
Very Stiff Gray CLAY (Till)			
645.01	11	2.7	19
Very Stiff Gray CLAY (Till)			
645.01	11	2.4	20
Very Stiff Gray CLAY (Till)			
645.01	12	2.1	20
Very Stiff Gray CLAY (Till)			
645.01	11	3.1	17
Very Stiff Gray CLAY (Till)			
645.01	12	2.4	20
Very Stiff Gray CLAY (Till)			
645.01	12	2.5	22
Medium Gray SILT (saturated)			
622.51	-40		
Medium Gray SILT (saturated)			
620.01	14		19

Boring No. 12
Station 1037+44.5
Offset 42' Rt E

Elevation	Z	Q _u (t/sf)	w (%)
Ground Surface 661.51	-40		
Very stiff Gray CLAY (Till)			
620.01			
Very stiff Gray CLAY (Till)			
620.01	12	2.5	17
(occasional 1" saturated sand seam)			
618.51	11	3.1	22
Very stiff Gray CLAY (Lacustrine)			
618.51	14	2.5	24
Very stiff Gray CLAY (Lacustrine)			
618.51	12	2.7	22
Hard Gray CLAY (Lacustrine)			
610.01	12	3.1	22
Hard Gray CLAY (Lacustrine)			
607.51	14	5.3	17
Very Stiff Gray CLAY LOAM (Till)			
605.01	15	2.1	15
Hard Gray CLAY LOAM (Till)			
603.01	15		11

Surface Water El. None
Groundwater El. at Completion None
After 60 Hours 611.31

N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".
Q_u - Unconfined Compressive Strength - t/sf
w - Water Content - percentage of oven dry weight-%.
Type failure:
C - Cusp failure
S - Shear failure
E - Estimated Value

DESIGNED: P. J. Anderson
CHECKED: R. M. Leonard
DRAWN: R. M. Leonard
DATE: AUG. 28 1963
EXAMINED: H. C. Baumann
PASSER: H. J. Jamin
APPROVED: J. E. [Signature]

BORING DATA
F.A.I. RT. 57 SEC. 38-2HVB
IROQUOIS COUNTY
STA. 1037+61.38

FOR INFORMATION ONLY