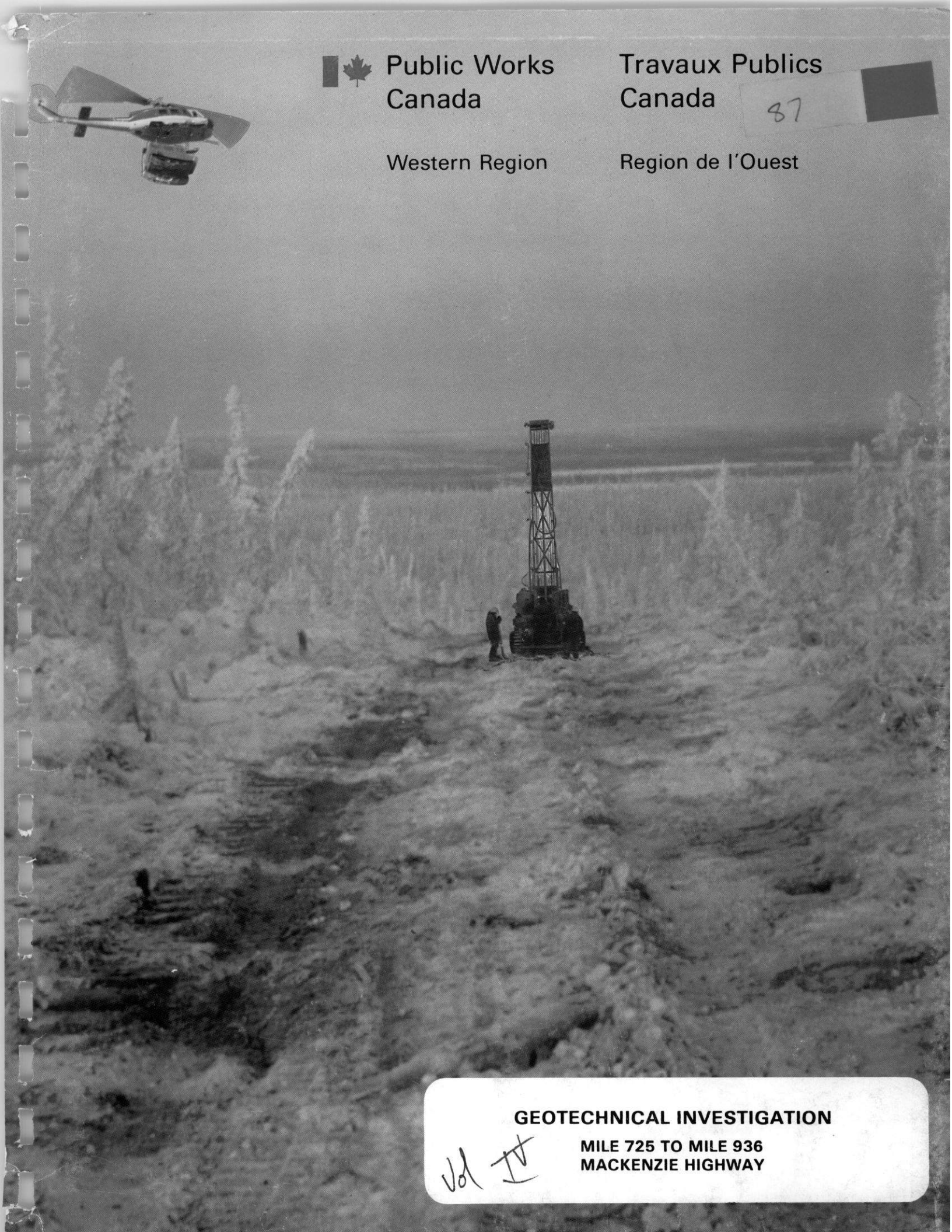
Public Works Canada

Travaux Publics Canada

87

Western Region

Region de l'Ouest



GEOTECHNICAL INVESTIGATION

MILE 725 TO MILE 936
MACKENZIE HIGHWAY

Vol IV

16

DEPARTMENT OF PUBLIC WORKS

WESTERN REGION

REPORT ON

GEOTECHNICAL INVESTIGATION

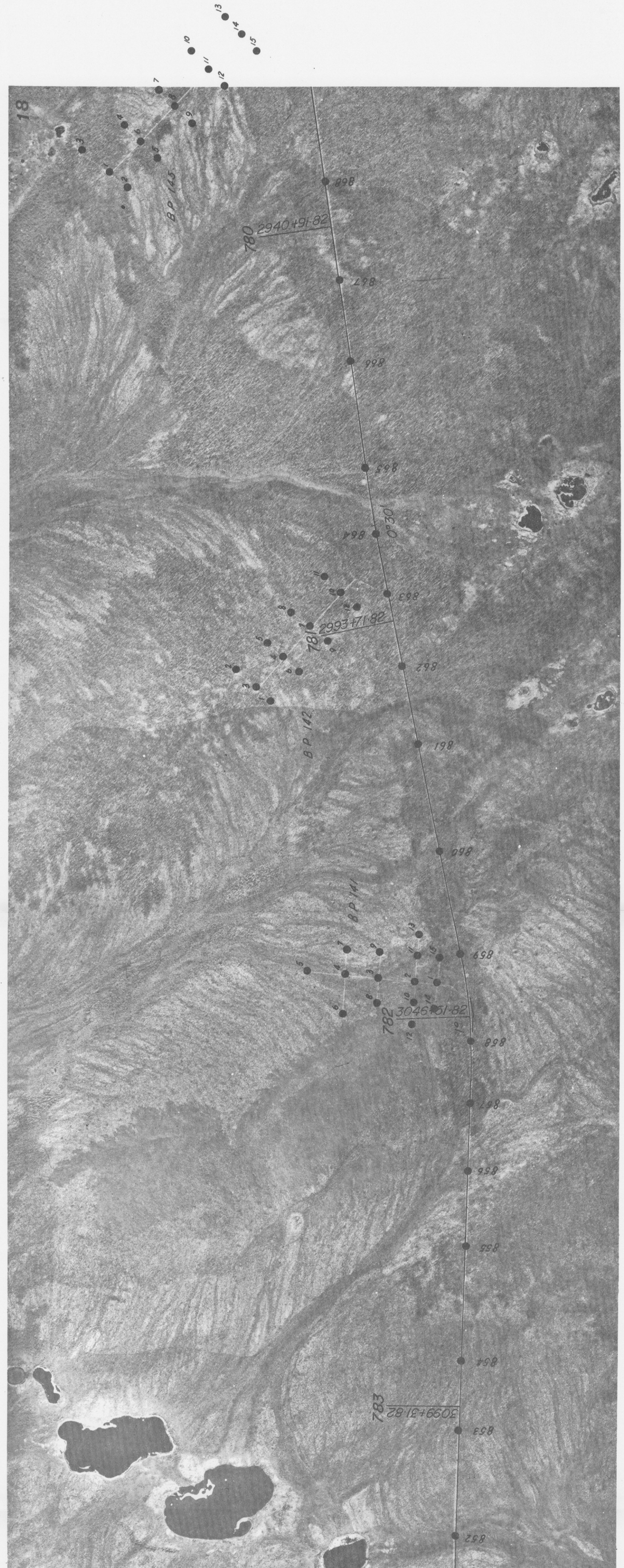
MILE 725 TO MILE 936

MACKENZIE HIGHWAY

VOLUME IV

BOREHOLE LOGS AND AIRPHOTO MOSAICS

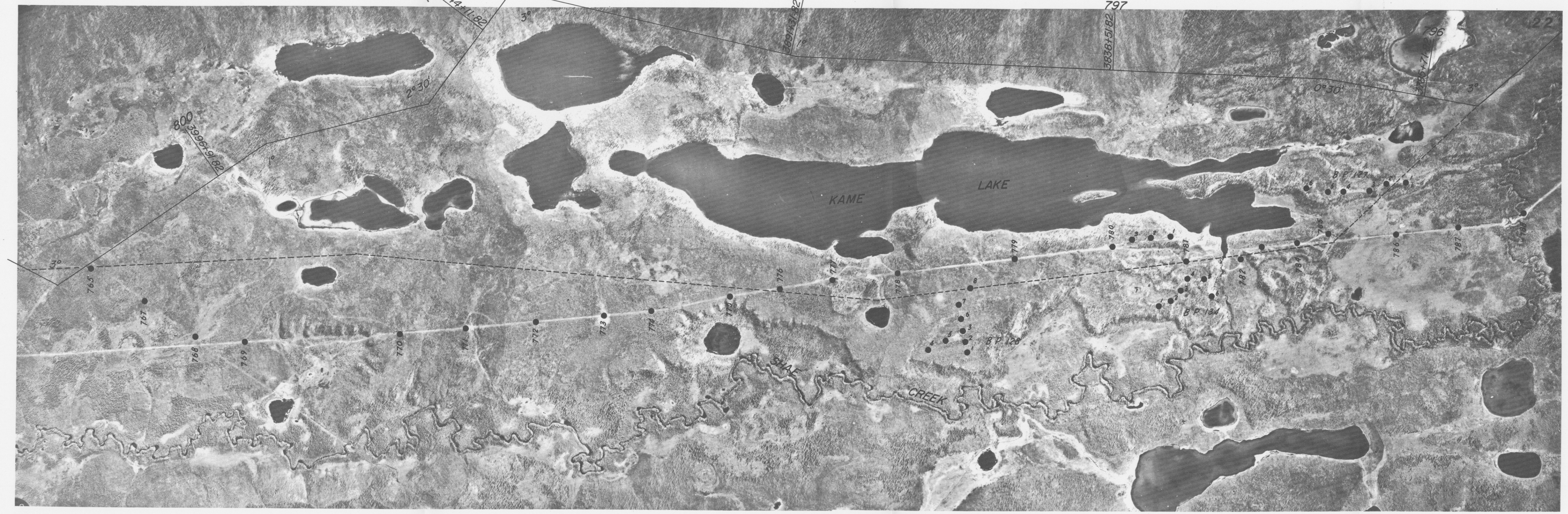
Mile 777 to Mile 800
Airphoto Mosaic #17 to #22
Centerline borehole logs #766 to #880
Borrow pits #125 to #149


18
BP 145
780 2940+91·82
BP 142
781 2993+71·82
BP 141
782 3046+51·82
783 3099+31·82
BP 140
784 3152+11·82
BP 143
898
897
896
895
894
893
892
198
890
889
888
887
886
885
884
883
882
881
850
849
848
847
846


TO HOLES #3 TO #16
SEE SKETCH OF PIT
BP 138
788
787
786
785
784
BP 143
TO BP 144
SEE SKETCH OF PIT


B.P. 135
B.P. 136
B.P. 126
B.P. 129
B.P. 130
793
792
791
790
789
3627+31.82
3574+18.82
3521+71.82
3468+91.82
3416+11.82
1930'
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824-1
824-2
825
826
827
828

SHAE CREEK
KAME LAKE
BP 124
BP 127
BP 128
BP 133
BP 139
BP 125
796
795
794
3728+91.82
3768+77.82
3828+51.82
10°30'
0°30'
36
21


KAME
LAKE
SHAE
CREEK
B.P. 123
B.P. 124
B.P. 125
765
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
797
798
3°
2°30'
0°30'

22 A

LAKE

KAM

SHAE

CREEK

B P 127

B P 133

B P 143

B P 148

789

788

787

786

785

784

783

782

781

780

779

778

777

776

774

773

772

796

797

798

799

800

3785+71·82

3838+51·82

3891+31·82

3944+11·82

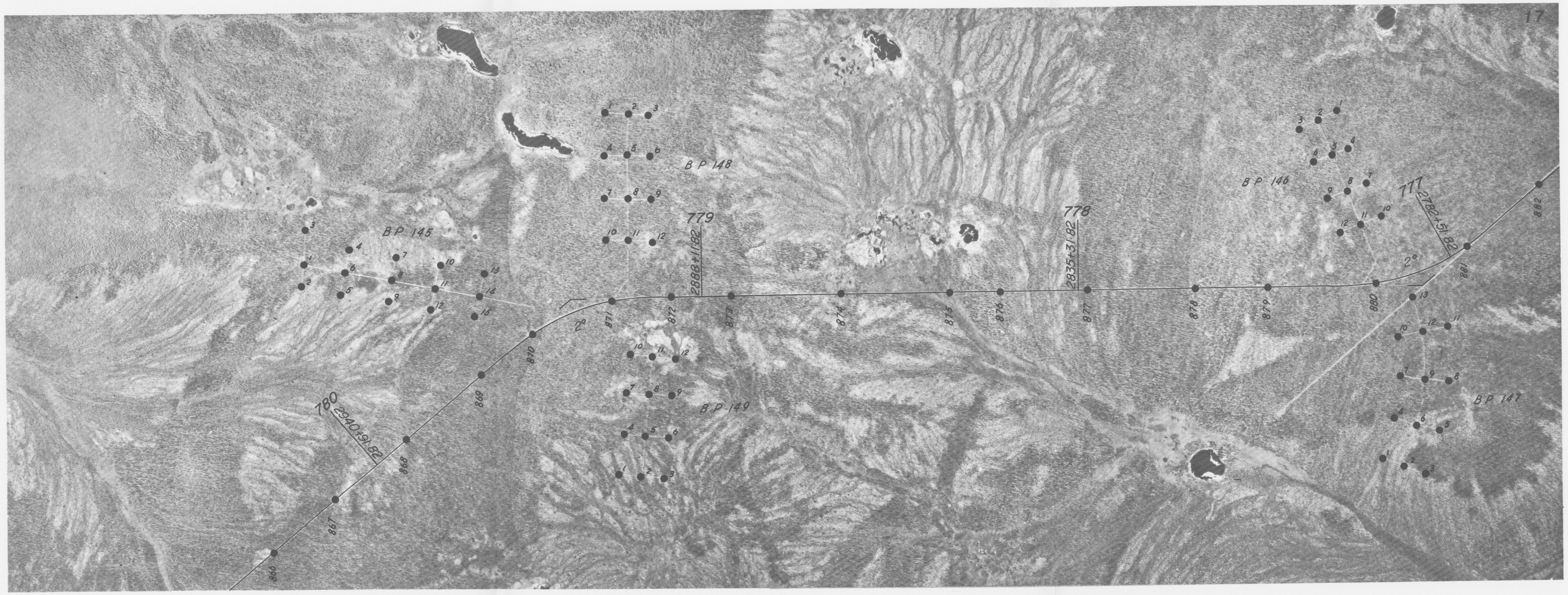
3996+91·82

3°

0°30'

4°

2°30'


BP 145
BP 148
BP 149
BP 146
BP 147
779
778
777
780
2688+1.82
2835+31.82
2782+51.82
2940+91.82
2°
2°
866
867
868
869
870
871
872
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882

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-70 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 766

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT — 2'		Moderate	Damp	
4						CLAY -Organics to 4' Silty Sandy Med-high plastic		To		
6								High	Free Water	
8					CI			Ice	Wet	
10					CH		F			
12								Vc - Vr	Sat.	
14								Vs	Wet	Hole in Bag
16										
18										
20										
22								Moderate		
24								To		
26								Low Ice		
28						30'		Vc - Vr Vx		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-70 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

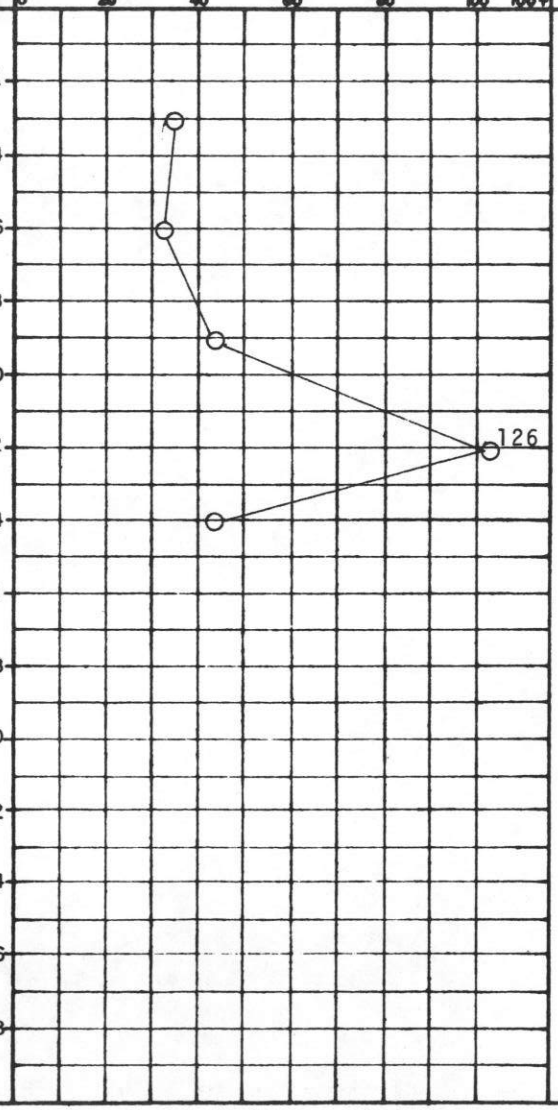
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 767

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1.5'	F	Moderate	Wet	Moisture Content not Correct
2						CLAY -Silty Sandy Med plastic		To		
4										
6								High	Moist	
8								Ice		
10					CI				Wet	
12									Wet	
14								Vc - Vr	Sat.	
16										
18								Vs		
20										
22										
24										
26										
28						30'				

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-70 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. JOHNSON | RIG. MAYHEW-#2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 768

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 2'		Moderate
4						CLAY -Silty Sandy Med plastic		To
6								
8								High
10					CI			Ice
12							F	Vc - Vr
14								
16								Vs
18								
20								
22								
24								
26								
28						30'		

DEPTH (FEET)

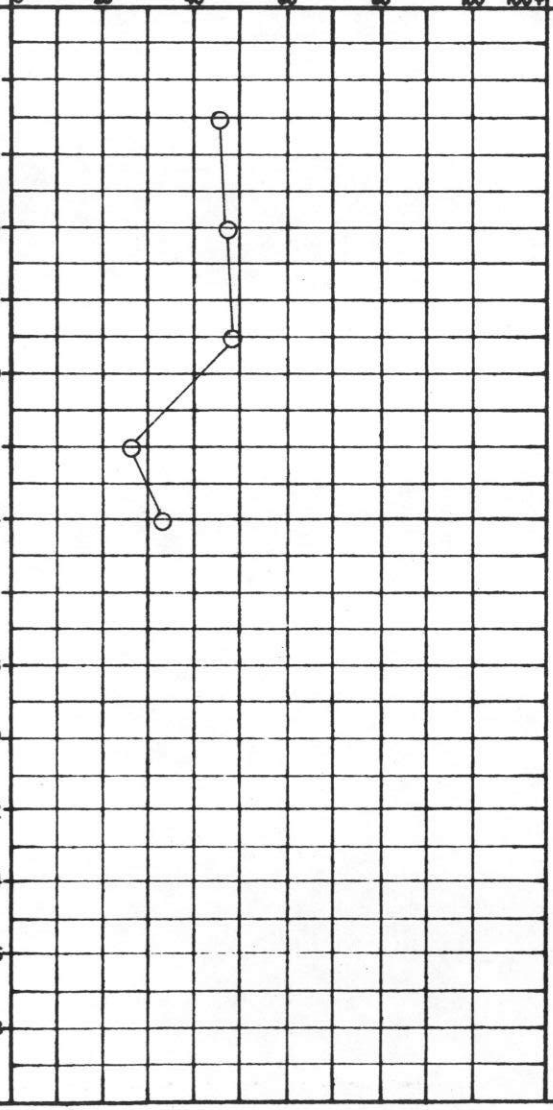
▲ DRY DENSITY (lbs./ Ft.^{3})

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Wet	
				Sat.	
				Wet	
				Damp	Hole in Bag
				Wet	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-70 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 769

MILE

REMARKS

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Pt	PEAT — 2'		Moderate Ice Vc - Vr					Wet
4						CLAY -Silty Sandy Med plastic		High Ice Vs					
6													Sat.
8								Moderate Ice Vc - Vr					
10					CI		F						Wet
12								High Ice Vs					Free Water
14													Free Water
16													
18													
20								Moderate Ice Vc - Vr					
22													
24													
26													
28						30'							

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-70 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 770

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 2'		Low Ice Vx
4						SAND -Silty Medium-fine clayey		
6								High Ice
8					SM			
10					SC		F	
12								Vs
14								
16								Moderate Ice
18								
20								Vc - Vr
22								
24								
26								
28						30'		

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Damp
				Wet
				Sat.
				Free Water
				Sat.

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-70 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 771

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		Low
2						SAND -Silty Clayey		Ice
4								
6								Vx
8					SC			Moderate
10							F	
12								To
14								High
16								Ice
18								
20								Vc - Vr
22								Vs
24								
26								
28						30'		

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160	180+
2										
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26										
28										

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Wet
					Damp
					Sat.
					Wet
					Sat.

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-70 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

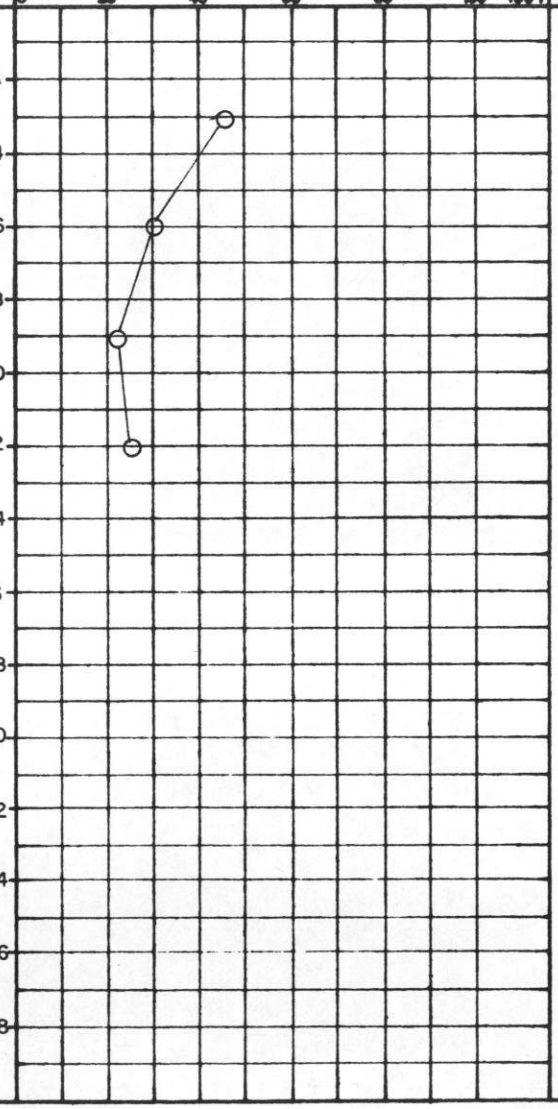
TEST HOLE 772

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 2'		Moderate Ice Vc - Vr
4						SILT-SAND LAYERED -Clayey to 7' Organics to 4'		
6					SM			Vs
8								Moderate Ice Vc - Vr
10					ML		F	
12								
14								
16								High Ice
18								
20								
22								Vs
24								
26								
28						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Free Water
				Wet
				Wet

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-68 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 773

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT			
						1'			
2						SILT			Wet
4						-Organics to 4'			
						Clayey			
6						Sandy			Free Water
					ML			High	
8									
10								Ice	Sat.
						11'			
12						SAND			Free Water
					SM	-Silty	F		
14								Vs	
						14'			
16						SILT			
						-Clayey			
18					ML				
20									
22									
24									
26									
28									
						29'			

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-68 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 774

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT — 1'			
2					CL	CLAY -Silty Organic to 4' Low plastic — 4'		Moderate	Moist
4									
6						SAND -Silty		Ice	Wet
8						Fine-medium Pebbles		Vc - Vr	Wet
10							F		
12					SM				Sat.
14									Wet
16									
18									
20									
22									
24									
26									
28						29'			

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-68 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 775

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'								
2						CLAY -Organic to 4' Silty Sandy		Moderate					Wet	
4						— 4'								
6					SM	SAND -Pebbles Silty							Wet	
8						Fine-medium		Ice						
10							F						Wet	
12					SP								Wet	
14								Vc - Vr					Sat.	
16														
18														
20														
22														
24														
26														
28						— 29'								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-68 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 776

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT			
						1'			
2						SILT -Clayey		Moderate	Moist
4					ML				
6								Ice	Wet
8									
						8'			
10						SAND -Silty		Vc - Vr	Sat.
					SM				Free Water
12							F		
14						Pebbles			Moist
16									
18									
20									
22									
24									
26									
28									
						29'			

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-68 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 777

MILE

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT — 2'							Free Water	
4						CLAY -Silty Low-med plastic		High						
6					CL								Sat.	
8								Ice						
10					CI								Sat.	
12								Vs					Sat.	
14							F						Sat.	
16														
18														
20														
22														
24														
26														
28						29'								

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-68 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

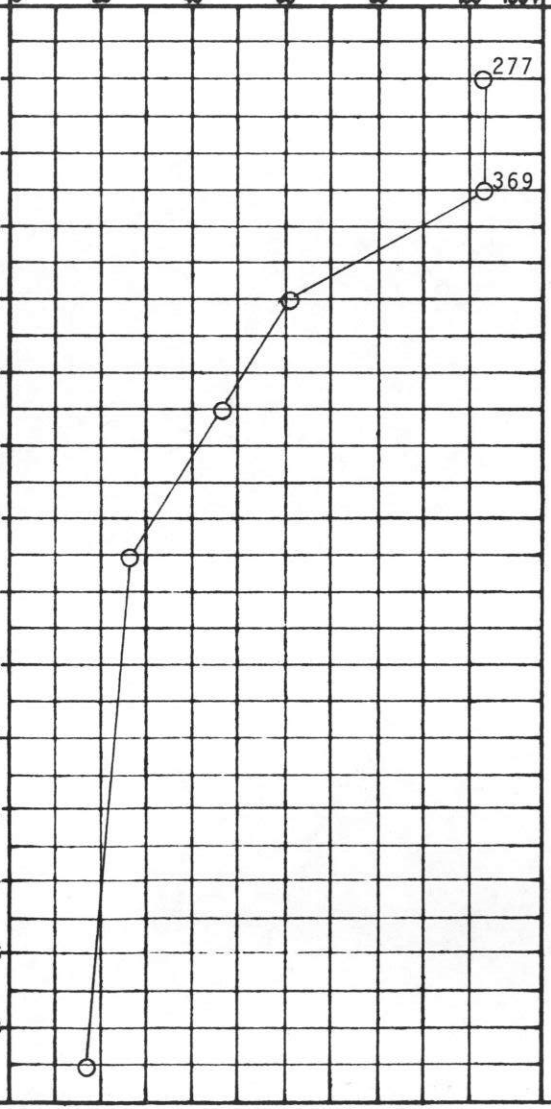
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LOW AREA | VEGETATION. SPRUCE | ELEV.

TEST HOLE 778

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		High
4								
6						6'		Ice
8						CLAY -Organics to 9' Silty Sandy Med plastic		
10								Vs
12							F	
14					CI			
16								
18								
20								
22								
24								Moderate
26								Ice
28								Vc - Vr
						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

DEPTH (FEET)	RELATIVE THAWED MOISTURE CONTENT
2	Wet
4	Free Water
6	
8	Sat.
10	
12	Wet
14	
16	Sat.
18	
20	
22	
24	
26	
28	Moist

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-66 | CHAINAGE. KAME LAKE C.N.T. | OFFSET. ℄

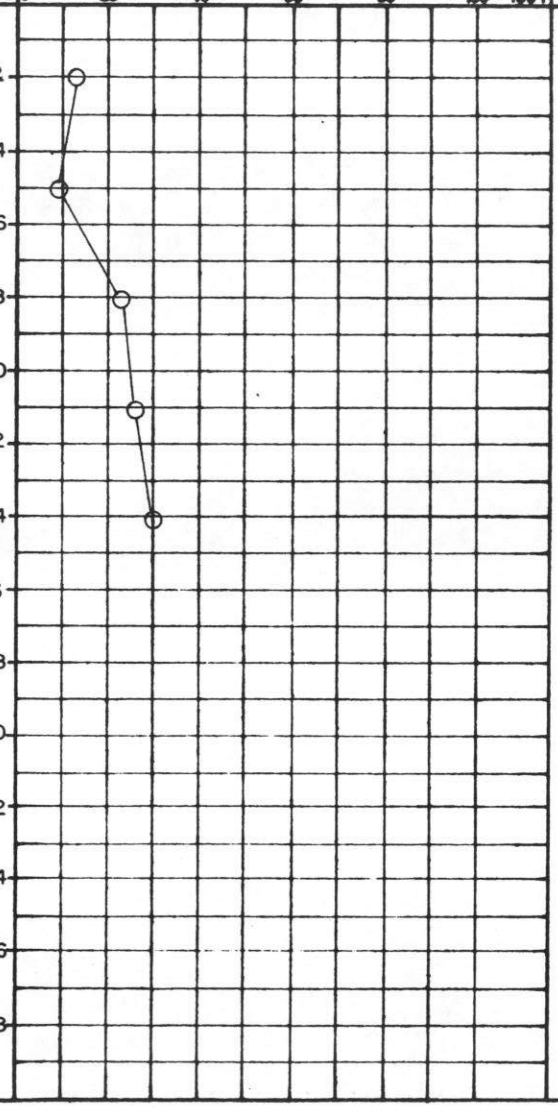
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. BURNT OVER | ELEV.

TEST HOLE 779

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT .8'							
2					GC	GRAVEL-CLAY-SAND MIX.		Moderate					Moist
4								Vc - Vr					
5'													
6					SP	SAND -Coarse Gravelly		To					Wet
8								High					Sat.
10						Silty-pebbles		Ice					
12							F						Sat.
14					SC	Silty		Content					Free Water
16								Vs					
18													
20													
22													
24													
26													
28													
30'													



BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-66 | CHAINAGE. KAME LAKE CNT | OFFSET. ℄

TECH. MCINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 8" | ELEV.

TEST HOLE 780

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1.1'		
2					SP	SAND -Medium Gravelly		Low
4								
6								Vx
8								Ice
10					SC	Clayey Silty Gravelly	F	High Ice
12								
14						— 14'		Vs
					GP	GRAVEL-Silty, sandy — 15'		
16						BOTTOM OF HOLE - 15'		
18						Hole Caving in		
20								
22								
24								
26								
28								

DEPTH (FEET)

DRY DENSITY (lbs./ Ft.^{3})

WATER CONTENT (% of dry weight)

ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Sat.	
				Sat.	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-66 | CHAINAGE. KAME LAKE CNT | OFFSET. ℄

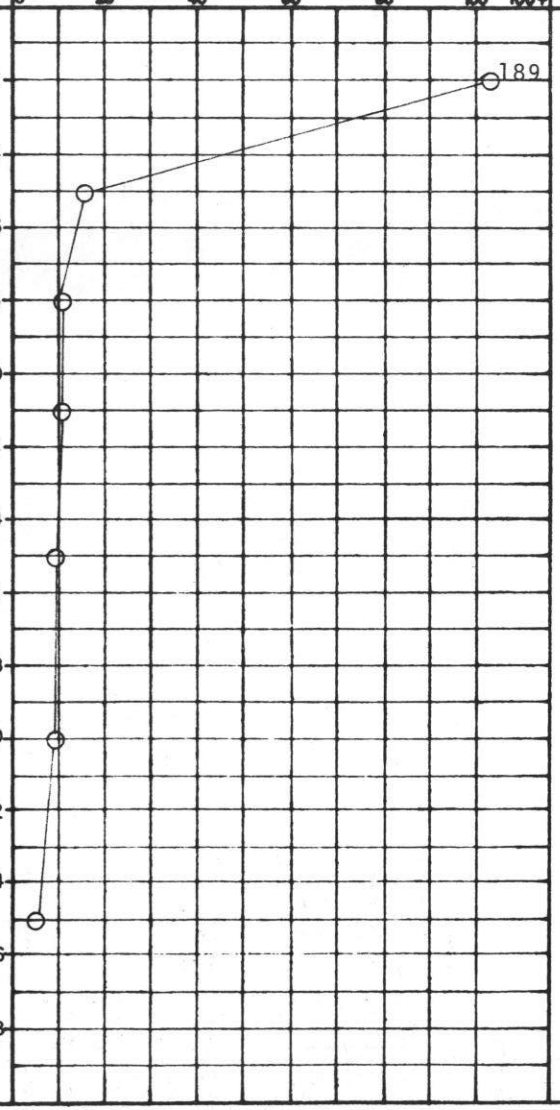
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 781

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT	F	Moderate Ice Content Vc - Vr
						3½'		
					SM	SAND -Silty Some organics Pebbles		
					SP	Med-coarse Gravelly		
						11'		
					SC	GRAVEL -Sandy Clayey		
						20'		
					SP	SAND -Coarse Gravelly		
					GP	GRAVEL -Sandy		
						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Wet	
				Wet	
				Sat.	
				Sat.	
				Wet	
				Wet	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

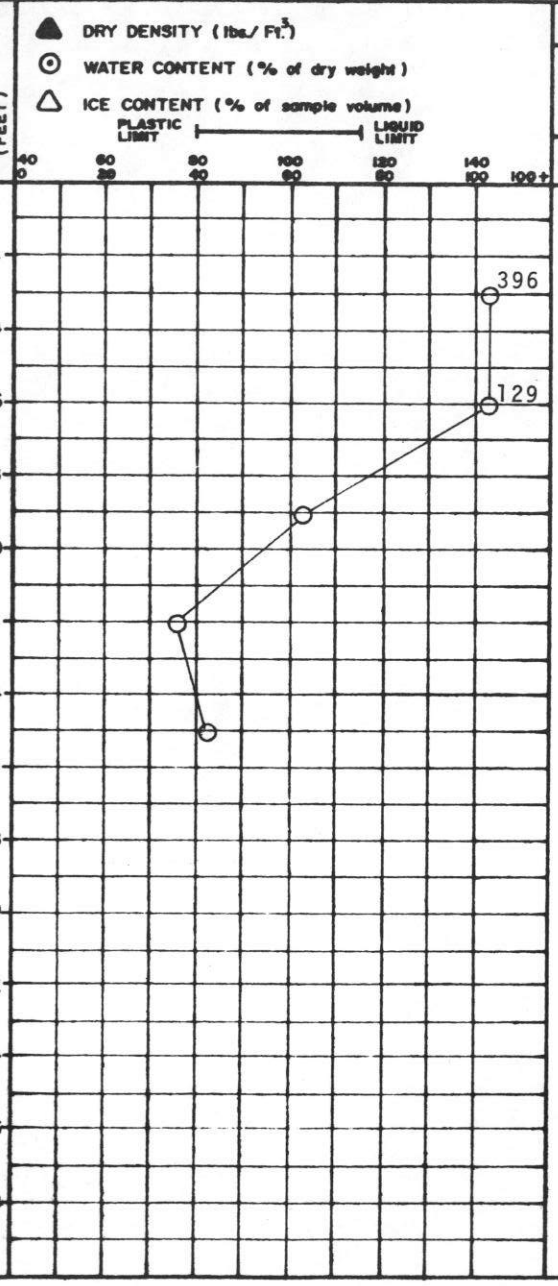
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 2/3/74	AIRPHOTO NO. A 22861-66	CHAINAGE. C.N.T. KAME LAKE	OFFSET. ℄	TEST HOLE 782
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. POOR	VEGETATION. SPRUCE - BIRCH 2"	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		High
4								
6								
7'								
8					ML	SILT -Organic Clayey Sandy		Ice
10							F	
10'								
12					SC	SAND -Clayey Silty		Vs
14								
16								
18								
20								
22								
23'								
24						SILTSTONE -Sandstone		
26								
28								
30'								

BOTTOM OF HOLE - 30'



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Wet	
				Wet	
				Sat.	
				Free Water	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

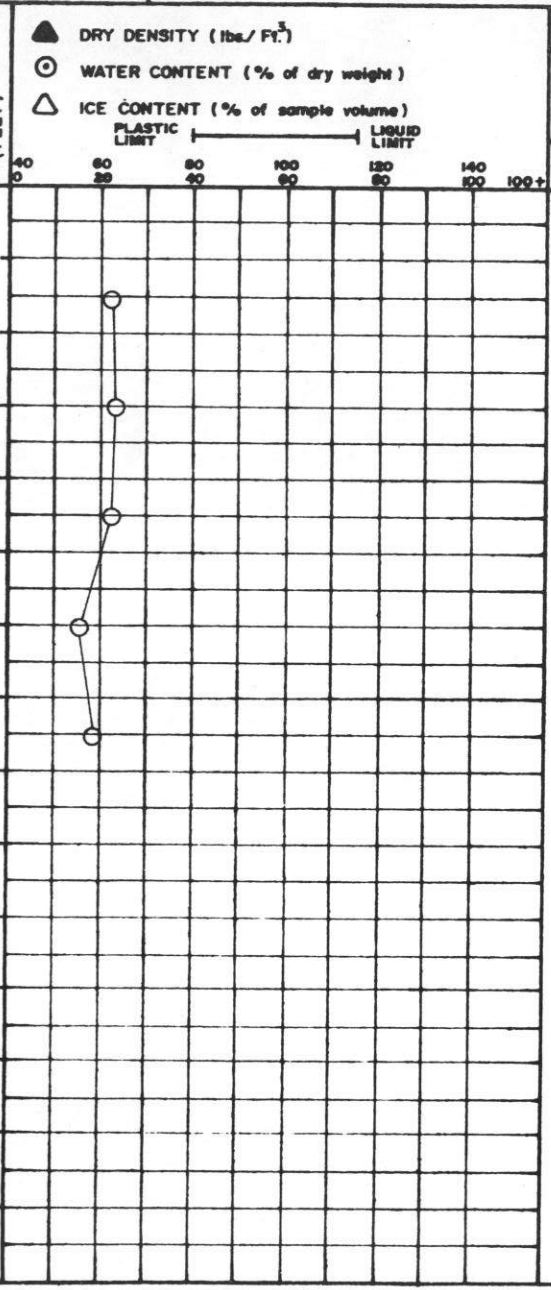
FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-66 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. MCINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 3" | ELEV.

TEST HOLE 783

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		Moderate
2					SM	SAND -Silty		&
4								
6						Pebbles		High
8								Ice
10					SC	Clayey-pebbles	F	Vc - Vr
12								Vs
14					SM	Silty — 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Free Water
				Free Water
				Sat.
				Wet

REMARKS

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 2/3/74	AIRPHOTO NO. A 22861-66	CHAINAGE. KAME LAKE CNT	OFFSET. ℄	TEST HOLE 784
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE 8"	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .8'								
2					SW	SAND -Fine-coarse Gravelly	F	Low Vx Ice					Damp	
4													Damp	
6														
8						8'							Moist	
10					GP	GRAVEL -Sandy Silty, sandy		High Ice Content Vs					Free Water	
12					GM									
14						Sandy 15'							Free Water	
16						BOTTOM OF HOLE 15'								
18														
20														
22														
24														
26														
28														

▲ DRY DENSITY (lbs./Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-66 | CHAINAGE. KAME LAKE CNT | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 785

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 2"		Vx
2					GC	GRAVEL-CLAY-SAND MIXTURE	F	Low Ice Content
12					SC	SAND-Fine-coarse Clayey — 13'		High Ice Vs
14						— 14'		
						BOTTOM OF HOLE - 14'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
-22-		62	16	Moist	
-10-		56	34	Damp	
-12-		60	28	Moist	
-37-		28	35	Wet	
-26-		79	5	Free Water	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 2/3/74 | AIRPHOTO NO. A 22861-66 | CHAINAGE. C.N.T KAKE LAKE | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LOW AREA | VEGETATION. GRASS - MARSH | ELEV.

TEST HOLE 786

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT	F	High
4'								
					CL	CLAY -Organics to 6' Silty Sandy Low plastic		Ice Vs
14'								Vc - Vr
						BOTTOM OF HOLE - 14'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Wet
				Free Water
				Free Water
				Wet

REMARKS

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-64 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

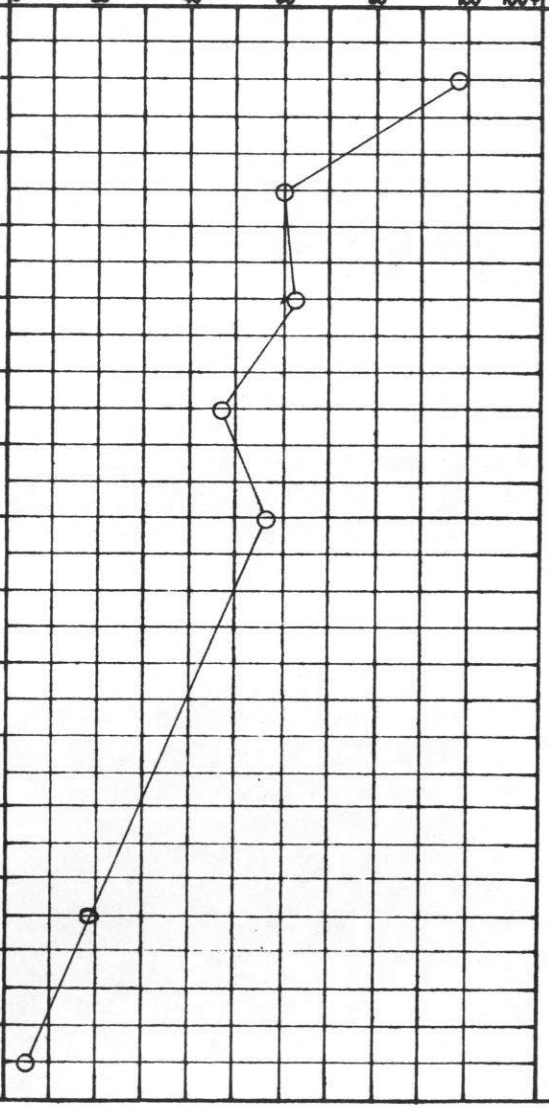
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. SPRUCE (BURNT) | ELEV.

TEST HOLE 787

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		
						2'		
4						CLAY -Organics to 3' Silty Sandy		High
6					CI	Pebbles		Ice
8					CH	Med-high plastic		
10							F	Vs
						11'		
12						SILT -Sandy Clayey		
14					ML	Pebbles		
16								
18								
						19'		
20						GRAVEL -Sandy		
22					GP			
						23'		
24						CLAY -Silty Sandy		
26					CL	Pebbles		
28								
						28'		
					GC	GRAVEL-Sandy clayey		
						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Wet	
				Free Water	
				Free Water	
				Free Water	
				Moist	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-64 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 788

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1½'		
2					ML	SILT -Organics to 3' Sandy Clayey		High Ice
8						— 8'		
10					CL CI	CLAY -Sandy Silty Organic to 12' Low-med plastic	F	Vs
14						— 14'		
16					ML	SILT -Clayey		
23						— 23'		
24					SP	SAND -Medium Pebbles		Moderate Ice
29						— 29'		Vc - Vr

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

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GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				2 Wet
				4 Free Water
				8 Sat.
				10 Sat.
				14 Free Water
				29 Wet

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

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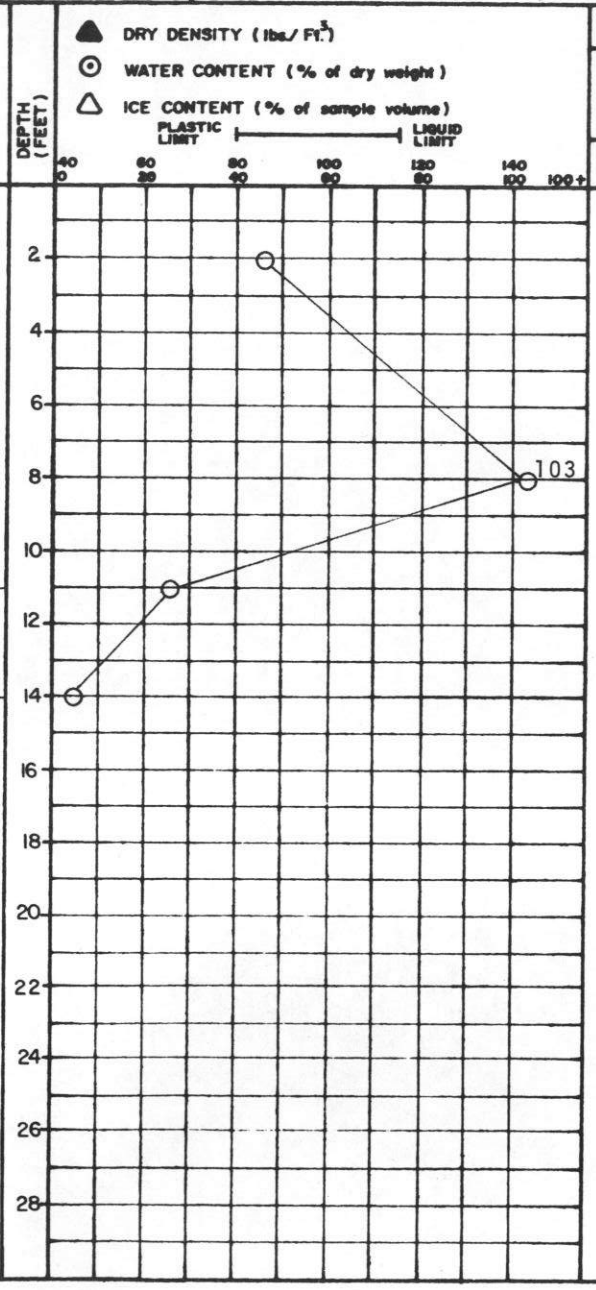
FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-64 | CHAINAGE. CNT KAME LAKE | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE (BURNT) | ELEV.

TEST HOLE 789

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 1.5'		High Ice
4						SILT -Organic to 3' Clayey		
6					ML		F	Vs
8								
10								
12								Moderate Ice
14					GC	GRAVEL-Clayey, sandy — 13' — 14'		Vc - Vr
16						BOTTOM OF HOLE - 14'		
18								
20								
22								
24								
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Free Water
				Free Water
				Damp
				Wet

REMARKS

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 3/3/74	AIRPHOTO NO. A 22861-64	CHAINAGE. C.N.T. KAME LAKE	OFFSET. ℄	TEST HOLE 791
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 6"	ELEV.	MILE

DRY DENSITY (lbs./ Ft.³) ▲ — WATER CONTENT (% of dry weight) ⊙ — ICE CONTENT (% of sample volume) △ — PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .7'								
2					ML	SILT -Organic Sandy, clayey Pebbles 4'		Moderate & High Ice						
4														
6						CLAY -Silty Sandy High plastic							Sat.	
8					CH		F	Vc - Vr					Wet	
10								Vs						
12													Sat.	
14					SC	SAND-Gravelly clayey 14'		Vx						
16						15' BOTTOM OF HOLE - 15'							Wet	
18														
20														
22														
24														
26														
28														

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

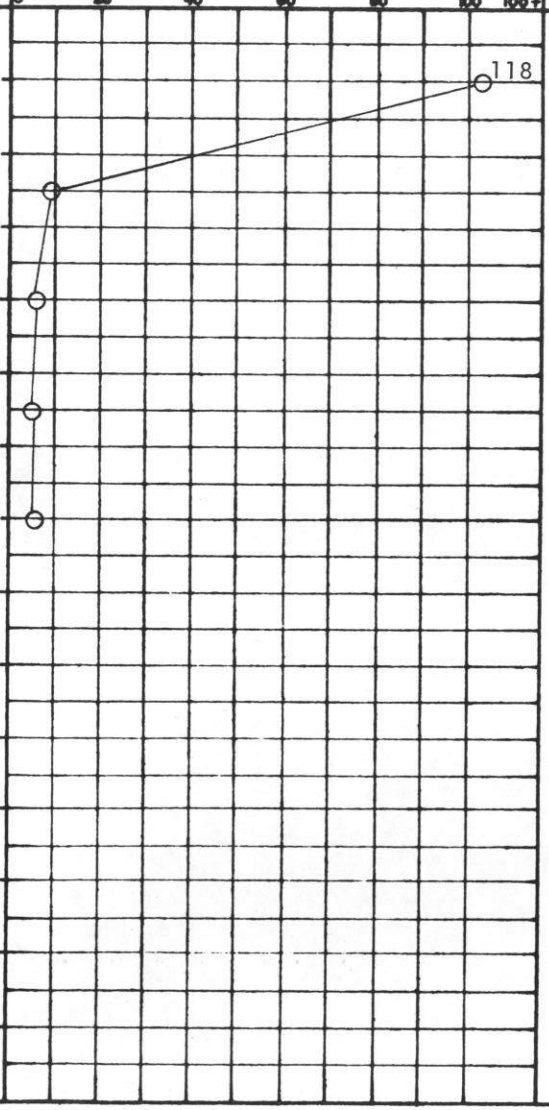
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 3/3/74	AIRPHOTO NO. A 22861-64	CHAINAGE. KAME LAKE CNT	OFFSET. ℄	TEST HOLE 792
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 5"	ELEV.	MILE

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt O	PEAT		High Ice Vs					Moist	
4						4'								
6						GRAVEL -Clayey Sandy		Low Ice					Sat.	
8					GC	Sandy	F						Wet	
10								Content						
12						GRAVEL only		Vx					Wet	
14													Wet	
15						15'								
16						BOTTOM OF HOLE - 15'								



DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. KAME LAKE CNT | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. EDGE OF SLOPE | VEGETATION. | ELEV.

TEST HOLE 793

MILE

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT								
						1"								
2					GP	GRAVEL -Sandy		Low					Moist	
4														
						5'							Moist	
6					SW	SAND -Med-coarse Gravelly								
						7'		Ice						
8						GRAVEL -Sandy Clayey							Wet	
10							F							
12						GRAVEL-CLAY-SAND MIX.		Content					Wet	
14														
16					GC			Vx					Wet	
18														
20						GRAVEL -Clayey Sandy							Moist	
22														
24														
26													Moist	
28														
						29'							Moist	

BOTTOM OF HOLE - 29'

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. KAME LAKE CNT | OFFSET. ℄

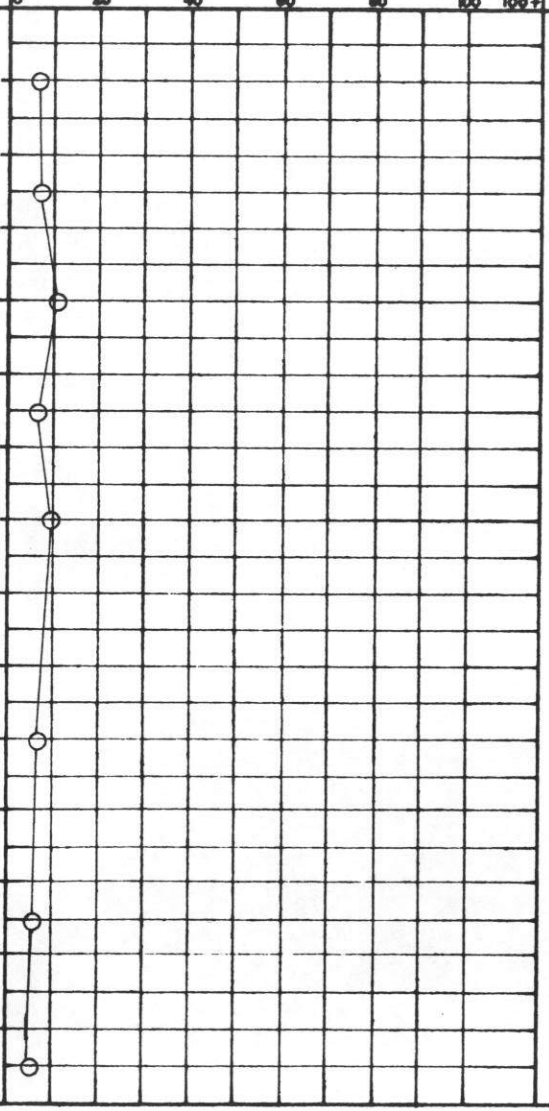
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. TOP OF ESKER | VEGETATION. | ELEV.

TEST HOLE 794

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT		
						1"		
2					GP	GRAVEL -Sandy		Low
4								
6					GC	GRAVEL-CLAY-SAND MIX.		
8						8'		Ice
10					CL CI	CLAY -Silty Sandy Gravelly	F	
12								
14								Content
16								
18								Vx
20						20'		
22					GC	GRAVEL-CLAY-SAND MIX		
24								
26								
28								
						29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. KAME LAKE C.N.T. | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. EDGE OF SLOPE | VEGETATION. | ELEV.

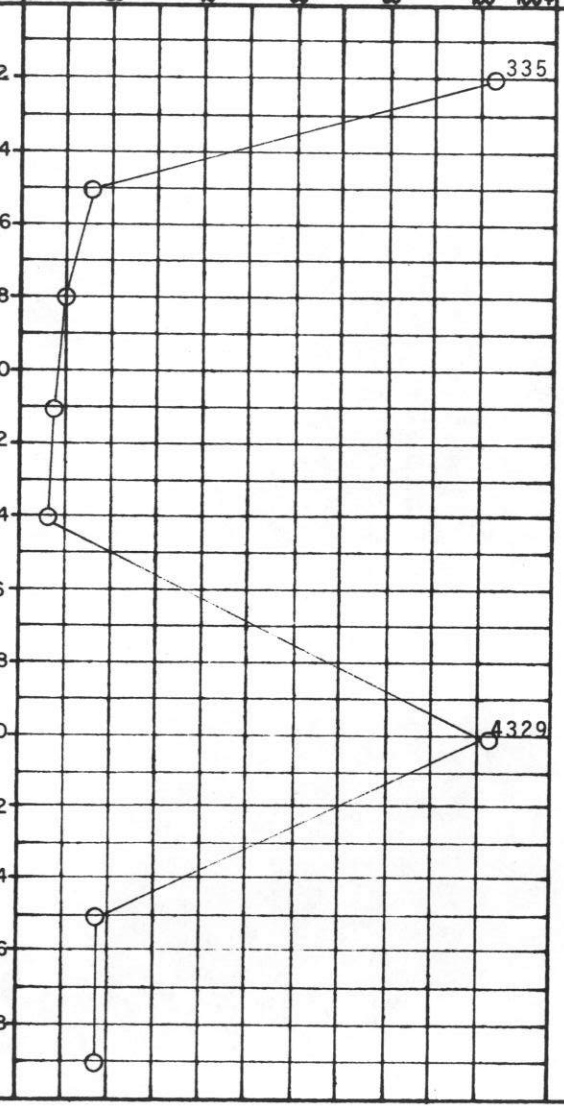
TEST HOLE 795

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		High Ice Vs
4						4.5'		
6					GC	GRAVEL -Sandy Clayey Sandy	F	Moderate Ice Content Vc - Vr & Low Ice Vx
8								
10								
12								
14								
16								
18								
20						ICE		ICE
22								
24					CI	CLAY -Silty Sandy Pebbles Med plastic	F	Moderate Ice Content Vc - Vr
26								
28						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Sat.
				Wet
				Wet
				Wet
				Water
				Moist
				Moist

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. KAME LAKE CNT | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 796

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT — 1'							Moist	
4						CLAY -Sandy Silty Pebbles Med plastic		Low					Moist	
6								Ice						
8													Moist	
10					CI		F	Vx					Wet	
12														
14						Gravelly							Moist	
16														
18														
20														
22														
24														
26														
28						Gravelly — 29'							Moist	

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. C.N.T. KAME LAKE | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. TOP OF SLOPE | VEGETATION. | ELEV.

TEST HOLE 797

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT			
1'									
2						CLAY			Damp
4						-Silty		Low	Damp
6						Sandy			
8						Pebbles			Damp
10					CI	Med plastic	F	Ice	Damp
12									Damp
14									
16								Vx	
18									
20									Wet
22									
24									
25'									
26						BOTTOM OF HOLE - 25'			
28									

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

40 0 60 20 80 40 100 60 120 80 140 100 100+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 3/3/74	AIRPHOTO NO. A 22861-63	CHAINAGE. C.N.T. KAME LAKE	OFFSET. ℄	TEST HOLE 798
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT								
						2"								
2						CLAY							Damp	
						-Silty								
						Sandy		Low						
4						Pebbles							Damp	
						Gravelly								
						Med plastic								
6														
								Ice						
8					CI								Damp	
10														
													Damp	
12						Pebbles	F							
								Vx						
14													Damp	
16														
18														
20														
22														
24														
26														
28													Damp	
						29'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

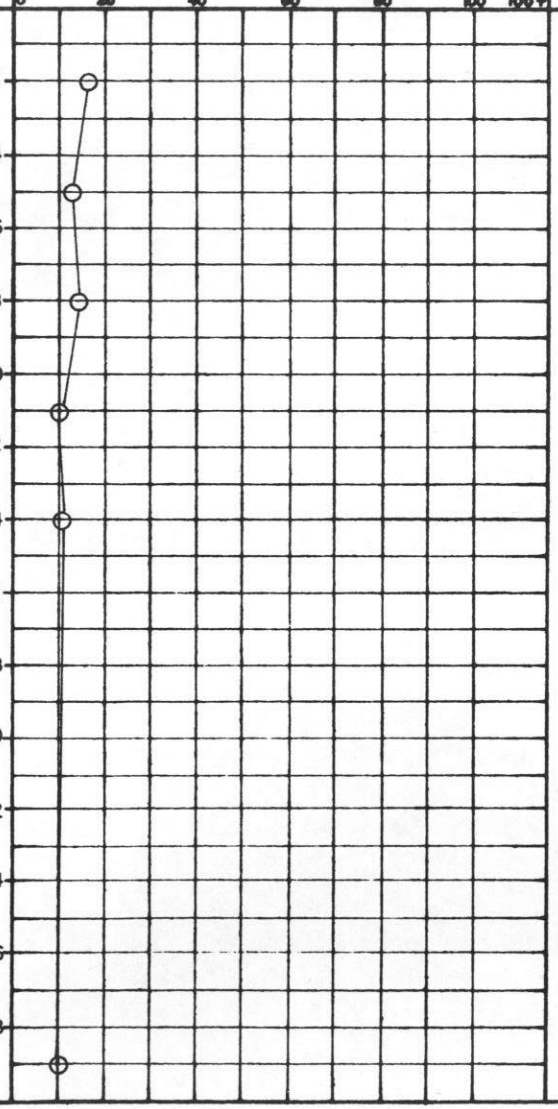
FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. 3705+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. POOR | VEGETATION. SPRUCE | ELEV.

TEST HOLE 800 | MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2						CLAY -Organics to 3' Silty Sandy Pebbles Low-med plastic		Low
4					CL			
6					CI			Ice
8							F	
10								
12								Vx
14						— 14'		
					SM	SAND-Silty Pebbles		
16						— 16'		
						CLAY -Silty Sandy Pebbles Low-med plastic		
18								
20					CL			
22					CI			
24								
26								
28								
						— 29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Damp
4					Wet
8					Moist
12					Damp
14					Damp
28					Damp

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. 5' BACK TOP OF BANK | OFFSET. CLOSE TO CREEK

TECH. | RIG. | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 800-A

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT — 1.1'								
2						SILTY -Sandy Clayey Organic		High	-79-		21	0	Moist	
4														
6					SM			Ice	-61-		39	0	Sat.	
8						— 8'								
					SM	SAND-Silt Organic		Vs	-37-		63	0	Wet	
10						— 10'								
					SC	SAND -Silty Clayey Pebbles	F		-27-		65	8	Sat.	Hole in Bag
14														
						— 15'								
16					GW	GRAVEL -Sandy Silty		Low Ice	-10-		37	53	Moist	
18														
20						— 20'								
					CI	CLAY -Gravelly Silty Sandy Med plastic Pebbles		Vx	-62-		20	18	Damp	
22														
24									-79-		14	7	Damp	
26														
28														
					CL	Low plastic — 30'			-67-		30	3	Damp	

DRY DENSITY (lbs./ Ft.^{3}) ▲ — WATER CONTENT (% of dry weight) ⊙ — ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. CREEK | OFFSET. ℄

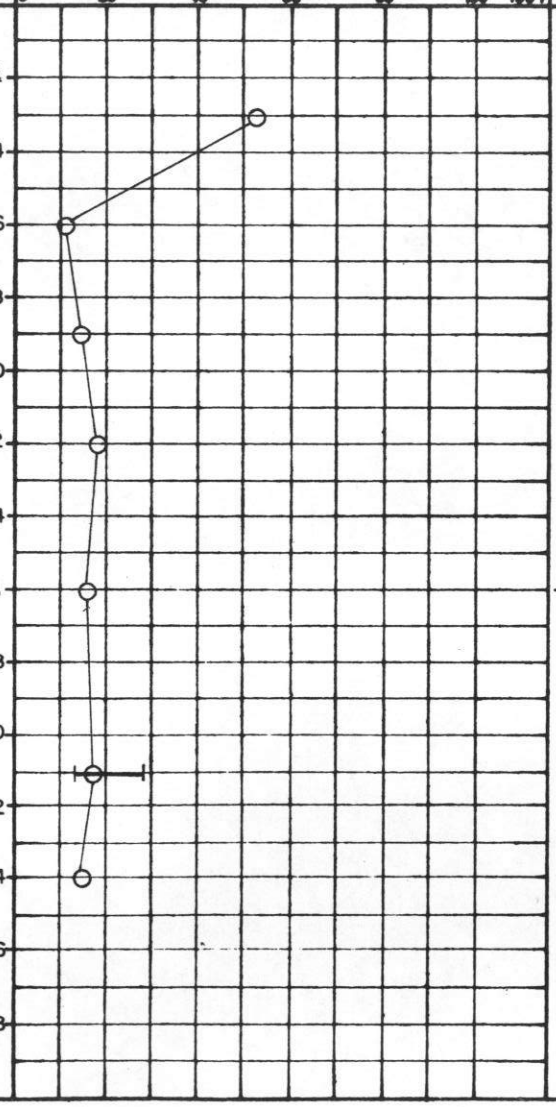
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. SPRUCE MAX. 8" | ELEV.

TEST HOLE 800A1

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					SC	SAND -Gravelly Silty Clayey	F	High Ice Vs
4								
6								Moderate
8								Ice
10						Small flow of water @ 10'		
12								Vc - Vr
14								
16								
18								
20						20'		
22					CL	CLAY-Gravelly, sandy Silty		
24					SC	22' SAND -Gravelly Clayey Silty		
26						25' BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Free Water	All Bags' had holes
-15-		71	14	Moist	
-17-		70	13	Moist	
-8-		80	12	Moist	
-11-		62	27	Sat.	
-33-		42	25	Wet	
-23-		56	21	Wet	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. 125' South of Creek. | OFFSET. ℄

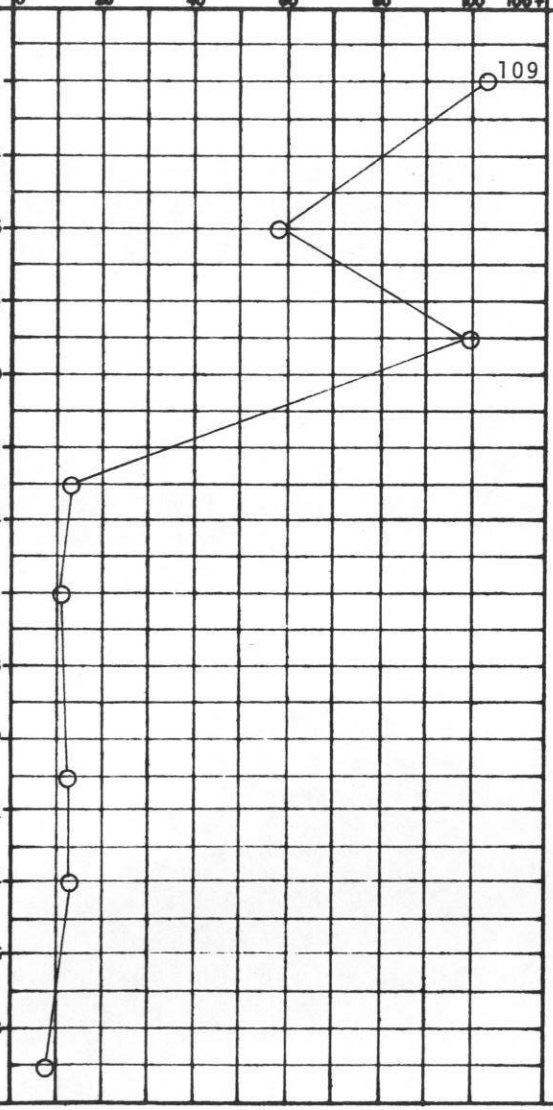
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 5" | ELEV.

TEST HOLE 800-B

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1.3'		
2					Pt	PEAT		High
4						4'		
					ML	SILT -Clayey		Ice
6					OL	Organic		
						7'		
8					CL	CLAY -Silty Sandy Low plastic		Vs
10							F	
						11'		
12						GRAVEL -Sandy Silty Clayey		Moderate Ice
14								
16					GC			Vc - Vr
18								Low
20						20'		
					CI	CLAY -Silty Sandy Pebbles Med plastic		Ice
22								
24								Vs
26								
28						28'		
						SHALE-Silty Soft		
						30'		

DRY DENSITY (lbs/ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	Hole in Bag
				Moist	" "
				Free Water	" "
				Sat.	
				Sat.	Hole in Bag
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. 3748+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 5" | ELEV.

TEST HOLE 800-C

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					CL	CLAY -Silty Sandy Organic		High Ice
6						— 7'		
8					CL	CLAY -Silty Sandy Low plastic	F	Vs
12						Pebbles		
16					CI	Med plastic		Moderate Ice Vc - Vr
20								Low Ice
24						Shale fragments		Vx
28						30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Moist	
				Sat.	
				Free Water	
				Wet	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. 3737+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 5" | ELEV.

TEST HOLE 800-D

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — .5'		
2					SM	SAND -Gravelly Silty Coarse - fine	F	Low Ice
8						— 8'		
10					CL	CLAY -Silty Sandy Pebbles to Gravelly Low plastic		Vx
15						— 15'		
16						BOTTOM OF HOLE - 15' Hole Caving in		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2	-13-		60	27	Damp	
6	-14-		74	12	Damp	
8	-33-		59	8	Damp	
12	-43-		36	21	Damp	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. 3725+00 | OFFSET. ℄

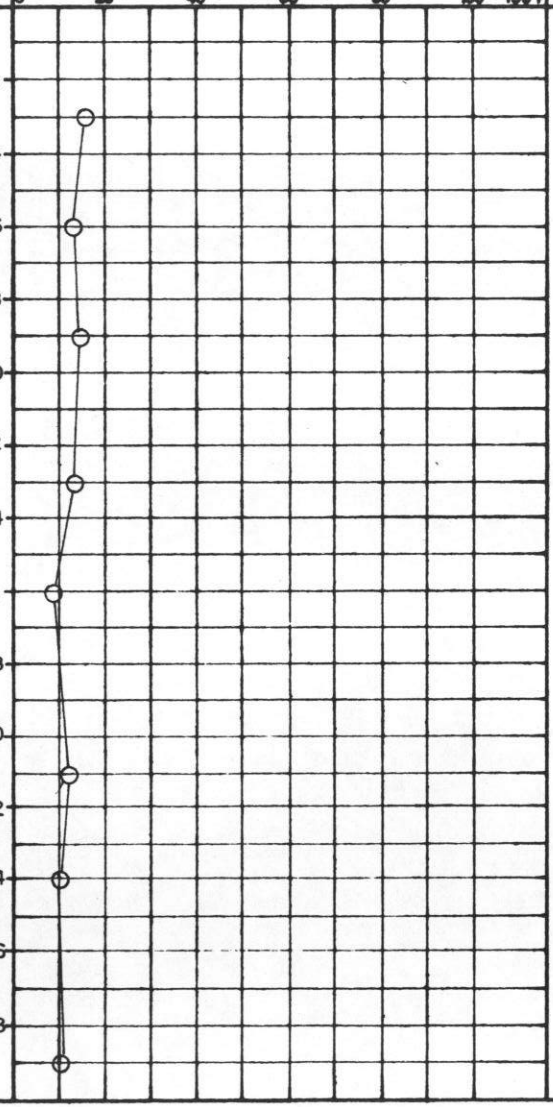
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE-BIRCH | ELEV.

TEST HOLE 800-E

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1.7'		
2					CI	CLAY -Silty Sandy Pebbles Med plastic — 5'		
4					SC	SAND-Gravelly Clayey — 7'		Low
6								
8						CLAY -Silty Sandy Pebbles Med plastic	F	Ice
10								
12								Vx
14					CI			
16								
18								
20								
22								
24								
26								
28						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Damp	
4						
6					Wet	
8						
10					Moist	
12						
14					Damp	
16					Damp	
18						
20						
22					Damp	
24					Damp	
26						
28					Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. 3699+00 | OFFSET. ℄

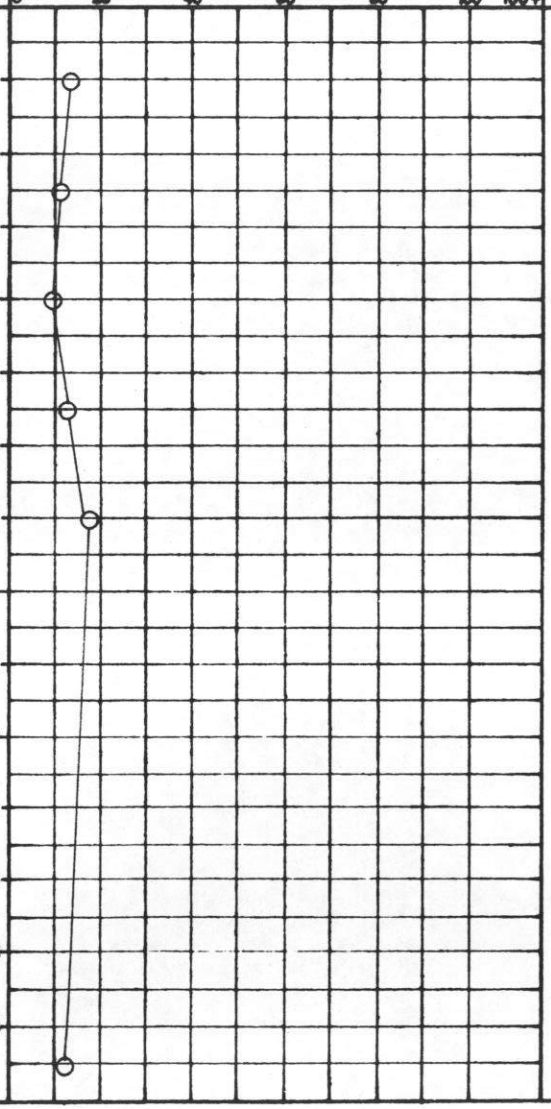
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 801

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
1'								
2					CL	CLAY -Silty Sandy Pebbles Gravelly 5'-9'	F	Low
4								
6								
8						Low-med plastic		Ice
10					CI			
12								Vx
14								
16								
18								
20								
22								
24								
26								
28								
29'								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 3/3/74	AIRPHOTO NO. A 22861-63	CHAINAGE. 3690+00	OFFSET. ℄	TEST HOLE 802
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 794

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT — 1'								
2						CLAY								
4						-Silty Sandy Pebbles Low-med plastic		Low						
6					CL	Gravelly 5'-12'		To	-55-		30	15	Damp	
8								Nil						
10					CI		F		-43-		46	11	Damp	
12						Pebbles		Ice	-58-		32	10	Damp	
14								Vx	-60-		35	5	Damp	
16								Nbn						
18														
20														
22														
24														
26														
28						29'								

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-63 | CHAINAGE. 3683+00 | OFFSET. ℄

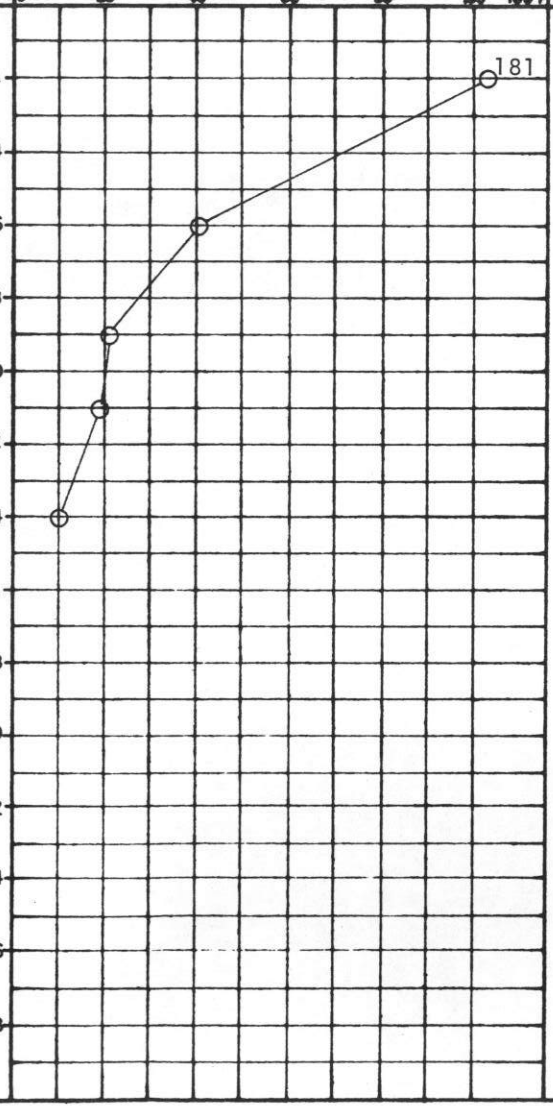
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 803

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT	F	High Ice Vs
4						4'		
6					CL	CLAY -Silty Sandy		Moderate Ice
8						Pebbles Low-med plastic		
10								Vc - Vr
12					CI			Low Ice
14								
16								
18								
20								Vx
22						Pebbles		
24								
26								
28						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Sat.
				Sat.
				Wet
				Damp

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 3/3/74	AIRPHOTO NO. A 22861-61	CHAINAGE. 3670+00	OFFSET. ℄	TEST HOLE 804
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 793

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						CLAY -Silty Sandy Pebbles							Damp	
4														
6						Gravelly Med plastic		Low					Damp	
8							F	Ice						
10					CI								Damp	
12								Vx					Damp	
14														
16						Pebbles		Nil						
18								Ice						
20								Nbn						
22														
24														
26														
28						29'								

BOTTOM OF HOLE - 29'

DS-14-5-74 b

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-61 | CHAINAGE. 3659+00 | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 805

MILE 793

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Moderate Ice
3'								
4					CI	CLAY -Silty, sandy Gravelly to 5' Pebbles Med plastic		Vc - Vr
8'								
10					GC	GRAVEL-CLAY-SAND MIXTURE	F	Low Ice
14'								
16					CI	CLAY -Silty Sandy Gravelly Med plastic		Vx
22								
24					GC	GRAVEL -Clayey Sandy 25'-29'		
29'								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Wet	
4						
6					Sat.	
8						
10					Wet	
12					Damp	
14					Damp	
16						
18						
20						
22						
24						
26						
28						

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-61 | CHAINAGE. 3646+00 | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 806

MILE 793

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						.5'		
2					GC	GRAVEL-SAND-CLAY MIXTURE		Low
4								
6								Ice
8						8'		
10					CL	CLAY -Silty Sandy Pebbles to Gravelly Low-med plastic	F	Vx
12								
14					CI			
16								
18								
20								
22								
24								
26								
28								
						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Damp	
4						
6					Damp	
8						
10					Damp	
12					Damp	
14						
16					Damp	
18						
20						
22						
24						
26						
28						

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 3/3/74	AIRPHOTO NO. A 22861-61	CHAINAGE. 3634+00	OFFSET. ℄	TEST HOLE 807
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 793

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2					SC	SAND -Silty Clayey Pebbles		Low
4						4'		To
6						CLAY -Silty Sandy Gravelly		Nil
8								
10						Low-med plastic		Ice
12					CL		F	Vx
14					CI			Nbn
16								Low
18								Ice
20								
22								Vx
24								
26								
28						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Damp	
4						
6					Moist	
8						
10					Moist	
12					Moist	
14					Moist	
16						
18						
20						
22						
24						
26						
28						

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-61 | CHAINAGE. 3620+00 | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 808

MILE 792

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Low
1'								
2						CLAY		
						-Silty		To
4						Sandy		
						Pebbles		
6						Organics 5'-7'		Moderate
8						Low-med plastic		Ice
							F	
10					CL			Vx
12					CI			
								Vc - Vr
14								
16								
18								
20								
22								
24								
26								
28								
29'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Sat.	
				Moist	
				Moist	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-61 | CHAINAGE. 3606+00 | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 809

MILE 792

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
1'								
2					SM	SAND -Silty fine	F	Moderate Ice
4								
6								
8					SC	Gravelly Clayey		Vc - Vr
10								
12								
14					SP	Coarse-medium Pebbles		Low Ice Vx
16								
18								
20								
22								
24								
26						Gravelly		
28								
29'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Damp
				Sat.
				Wet
				Sat.
				Wet

REMARKS: Hole in Bag

BOTTOM OF HOLE - 29'

DS-14-5-74 b

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 3/3/74	AIRPHOTO NO. A 22861-99	CHAINAGE. 3596+00	OFFSET. ℄	TEST HOLE 810
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 792

DRY DENSITY (lbs./ Ft.^{3}) ▲ — WATER CONTENT (% of dry weight) ⊙ — ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'								
2					ML	SILT -Sandy Clayey Gravelly		Low					Damp	
4														
6								Ice					Damp	
8						— 7'								
10					CL	CLAY -Sandy Silty Gravelly — 10'	F	Vx					Moist	
12						SAND -Clayey Silty Gravelly							Wet	
14													Wet	
16					SC									
18														
20														
22						Boulders 22' — 22'								
24						BOTTOM OF HOLE - 22'								
26														
28														

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 3/3/74	AIRPHOTO NO. A 22861-99	CHAINAGE. 3587+00	OFFSET. ℄
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 811

MILE 792

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2.5'					Pt	PEAT	F	Moderate Ice
2.5'–10'					CI	CLAY -Organics to 4' Silty Sandy Med-high plastic	F	Vc - Vr
10'–29'					CH	Organics 10'-12'	F	Vc - Vr

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet (2')
				Damp (6')
				Wet (8')
				Moist (10')
				Moist (12')

REMARKS: Hole in Bag

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 3/3/74	AIRPHOTO NO. A 22861-99	CHAINAGE. 3574+50	OFFSET. ℄	TEST HOLE 812
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 791

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT								
2.5'													Wet	
						CLAY -Silty Sandy Gravelly Shale fragments		Low						
													Moist	
								Ice						
					CL	Boulders Low plastic							Moist	
							F						Moist	
													Moist	
						Pebbles Med plastic		Vx						
					CI									
29'														

BOTTOM OF HOLE - 29'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-99 | CHAINAGE. 3562+00 | OFFSET. ℄

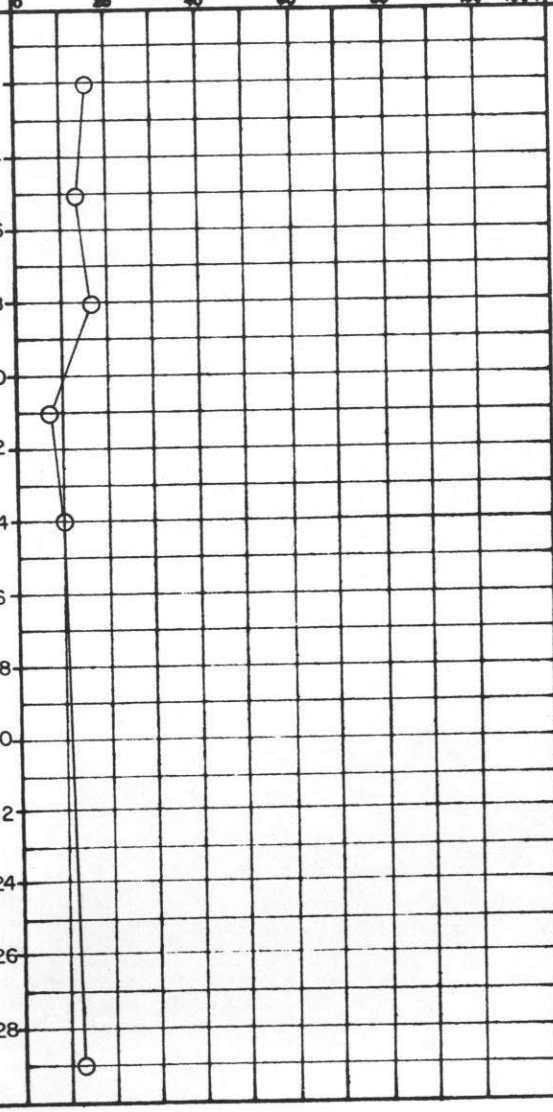
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE-BIRCH-WILLOWS | ELEV.

TEST HOLE 813

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 2'		
4						CLAY -Organics to 3' Silty Rock chips Low-med plastic Gravelly		
6					CL			Low
8						Pebbles		
10					CI	Gravelly	F	Ice
12								
14						Pebbles		Vx
16								
18								
20								
22								
24								
26								
28						29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Moist	
				Wet	
				Damp	
				Damp	
				Moist	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-99 | CHAINAGE. 3548+00 | OFFSET. ℄

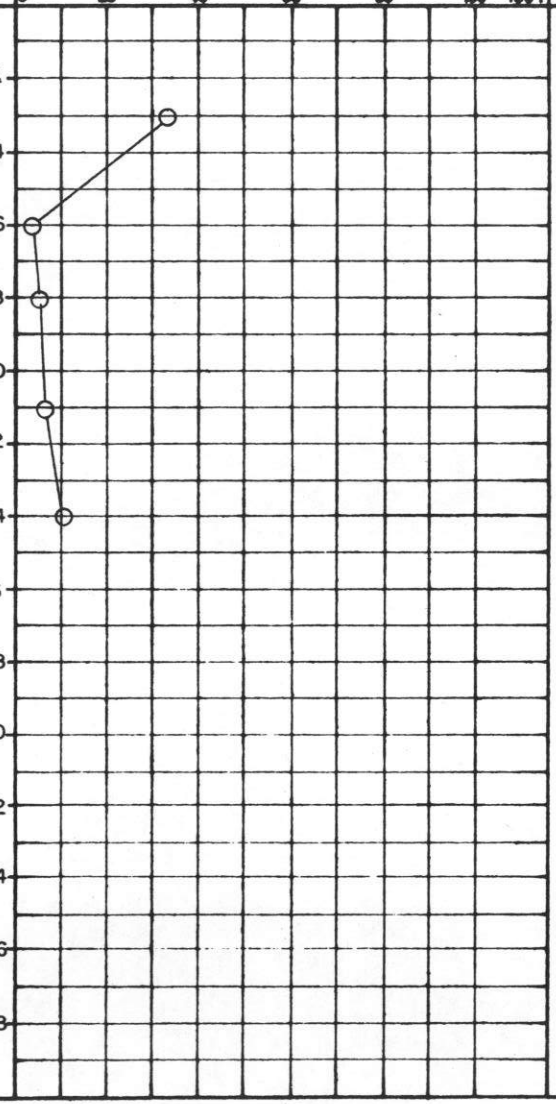
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. WILLOW-BIRCH | ELEV.

TEST HOLE 814

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2'					OL	CLAY-Organic Sandy, silty		
3.5'						GRAVEL -Sandy	F	Low Ice
						Clayey		Vx
					CI	CLAY-Sandy, gravelly		
14'						BOTTOM OF HOLE - 14'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Wet
				Wet
				Moist
				Moist

REMARKS

DS-14-5-74 b

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DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. A 22861-99 | CHAINAGE. 3532+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 815

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2					SC	SAND -Gravelly Clayey		Vx
4						— 4'		Low
6					GC	GRAVEL-SAND-CLAY MIXTURE		Ice
8						— 8.5'	F	
10						CLAY -Gravelly Sandy		Nil
12					CL	Low-med plastic		Ice
14					CI	Pebbles		
16								Nbn
18								
20								
22								
24								
26								
28						Gravelly		
						— 29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
				Moist
				Moist
				Moist
				Moist
				Moist
				Moist

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

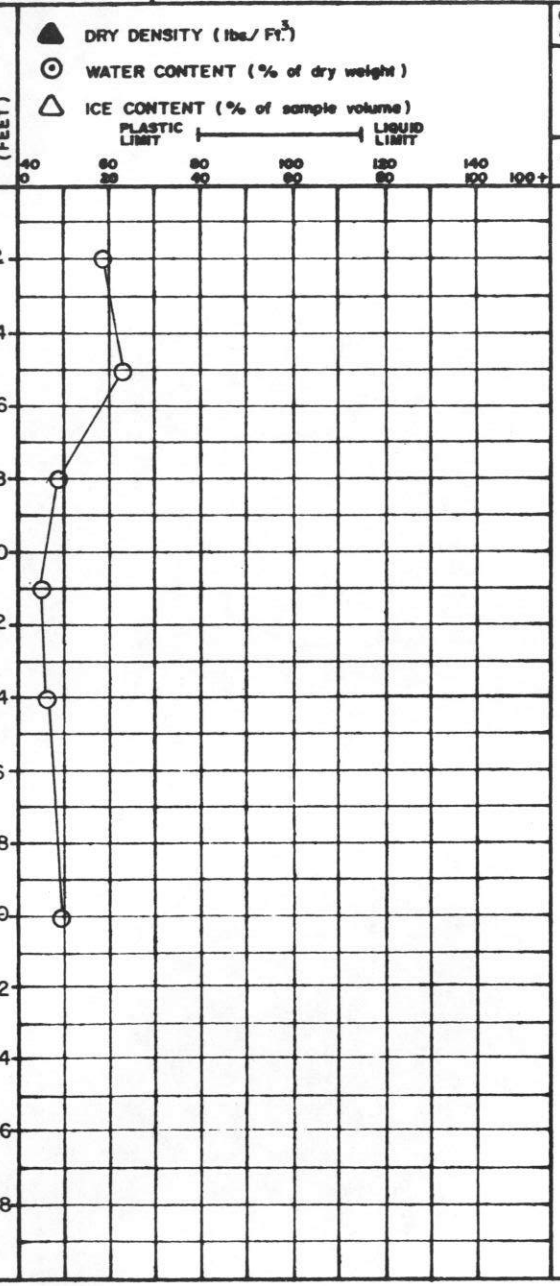
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TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 816

MILE 790

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		
						2'		
4					GC	GRAVEL-SAND -Clayey		Moderate
						5'		
6					SW	SAND -Med coarse		Ice
8						8'	F	
10					GP	GRAVEL -Sandy		Vc - Vr
12								
14					GC	Clayey		
16								
18								
20						20"		
						BOTTOM OF HOLE - 20'		
22								
24								
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Wet
				Wet
				Wet
				Wet
				Wet

REMARKS

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 4/3/74	AIRPHOTO NO. A 22861-101	CHAINAGE. 3507+00	OFFSET. ℄	TEST HOLE 817
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	MILE 790

DEPTH (FEET) | SAMPLE NUMBER | SAMPLE TYPE | % RECOVERY | PENETRATION RESISTANCE | UNIFIED SOIL SYMBOL | SOIL DESCRIPTION | LIMITS OF FROZEN GROUND | ICE DESCRIPTION | DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS: CLAY % | SILT % | SAND % | GRAVEL %

RELATIVE THAWED MOISTURE CONTENT | REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT								
1.5'														
2					GW	GRAVEL -Sandy Organic to 3'		Low					Moist	
4														
6					GP	GRAVEL-SAND MIXTURE		Ice					Wet	
8													Wet	
10							F	Vx					Wet	
12														
14'													Wet	
14						BOTTOM OF HOLE - 14'									
16														
18														
20														
22														
24														
26														
28														

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-101 | CHAINAGE. 3496+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 818

MILE 790

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1.5'		
2						GRAVEL-SAND MIXTURE		
4					GC	-Clayey		
						5'		
6						CLAY		Low
8						-Gravelly Sandy Low plastic		Ice
10								
12							F	
14					CL			Vx
16								
18								
20								
22								
24								
26								
28								
						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160	180+
2										
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26										
28										

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL	RELATIVE THAWED MOISTURE CONTENT
	%	%	%	%	
2					Wet
4					
6					Moist
8					Moist
10					
12					Moist
14					Moist
16					
18					
20					
22					
24					
26					
28					Moist

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

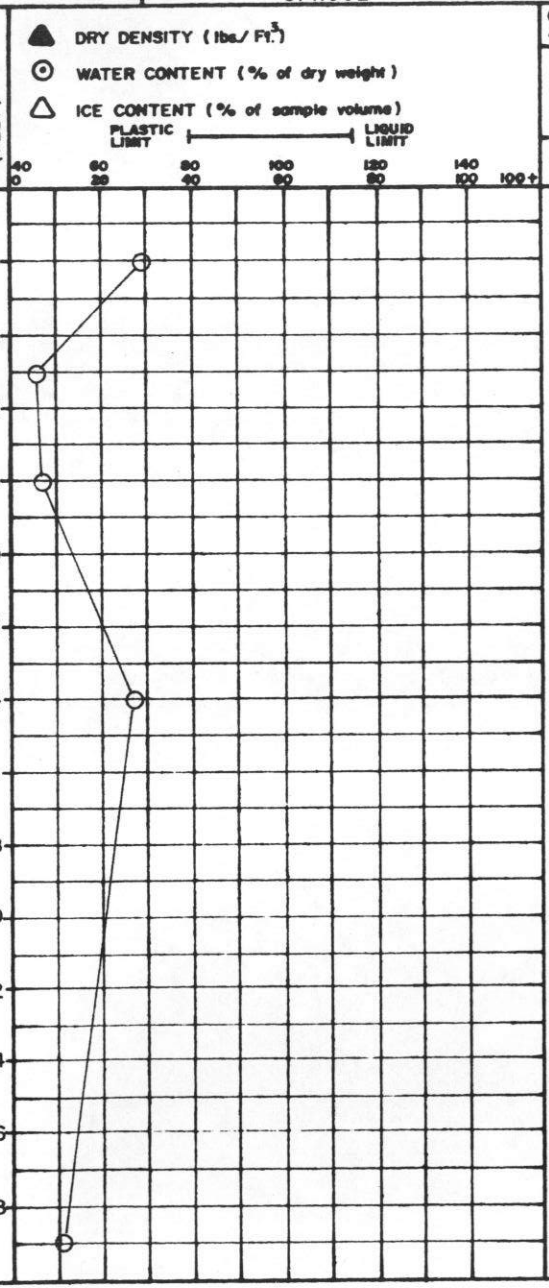
FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-101 | CHAINAGE. 3481+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. SPRUCE | ELEV.

TEST HOLE 819

MILE 790

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1.5'		
2					GC	GRAVEL-SAND MIXTURE -Clayey		
4						4'		Low
6					CI	CLAY -Gravelly Sandy Med plastic		Ice
8						8'		
10					GC	GRAVEL-CLAY-SAND MIXTURE	F	
12						11'		Vx
14					CL	CLAY -Gravelly Silty Sandy Low plastic Med plastic		
16								
18					CI			
20								
22								
24								
26								
28								
						29'		



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Moist
				Moist
				Moist
				Moist
				Moist

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-101 | CHAINAGE. 3472+00 | OFFSET. ℄

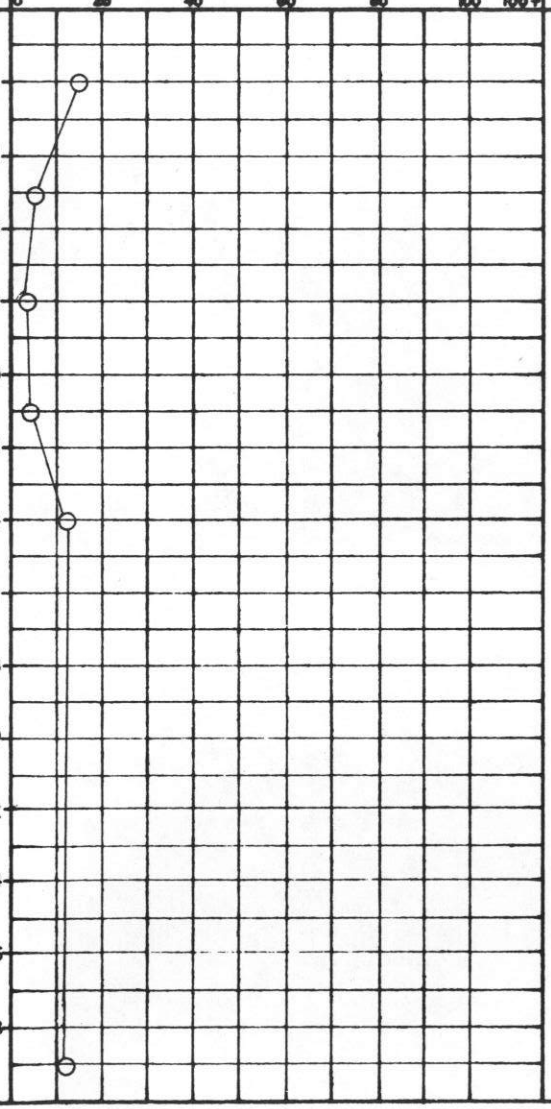
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 820

MILE 790

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1.5'		
2					GC	GRAVEL-CLAY-SAND MIXTURE -Organics to 3'		
4								Low
						5'		
6					GP	GRAVEL -Sandy		Ice
8								
10							F	
12								
14					GC	Clayey		Vx
16								
						17'		
18						CLAY -Silty Sandy Gravelly		
20					CL	Low-med plastic		
22					CI			
24								
26								
28								
						29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4					Moist	
6					Moist	
8					Moist	
10					Moist	
12					Moist	
14					Moist	
16						
18						
20						
22						
24						
26						
28					Moist	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-103 | CHAINAGE. 3461+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. | ELEV.

TEST HOLE 821

MILE 789

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1.5'		
2						GRAVEL-CLAY-SAND MIXTURE		Low
4					GC			
6								Ice
8								
						9'		
10						CLAY -Gravelly Sandy Silty	F	
12								Vx
14								
					CL	Low plastic		
16								
18								
20								
22								
24								
26								
28								
						29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4					Moist	
8					Moist	
12					Moist	
14					Moist	
29					Moist	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-103 | CHAINAGE. 3453+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE | ELEV.

TEST HOLE 822

MILE 789

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1.5'		
2						GRAVEL & SAND MIX.		
4					GP			
6					GW			Low
8								Ice
10								
						11'	F	
12					SP	SAND -Gravelly		Vx
14						14'		
16						CLAY-SAND-GRAVEL MIX		
18					GC			
20								
22								
24								
26								
28								
						29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4						
6					Wet	
8					Wet	
10						
12					Wet	
14					Moist	
16						
18						
20						
22						
24						
26						
28					Moist	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-103 | CHAINAGE. 3446+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. BIRCH | ELEV.

TEST HOLE 823

MILE 789

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		High Ice
4								
6								Vs
					OL	CLAY-Silty		
						7'		
8						GRAVEL -Sandy Silty Clayey	F	
10								Low Ice
12					GC			
14								
16								Vx
						17'		
18						BOTTOM OF HOLE - 17'		
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Sat.	
4					Free Water	
6						
8					Sat.	
10					Wet	
12						
14					Wet	
16						
18						
20						
22						
24						
26						
28						

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-103 | CHAINAGE. 3438+00 | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 824-1

MILE 789

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT —.5'		
2					GC	GRAVEL -Clayey Sandy		Nil
4					SC	SAND -Gravelly Clayey	F	Ice
6						—7'		Nbn
8					SM	SAND -Silty Pebbles		
10						—10'		
12						BOTTOM OF HOLE - 10'		
14								
16								
18								
20								
22								
24								
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+

0 20 40 60 80 100

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
				Damp
				Damp
				Humid

REMARKS

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

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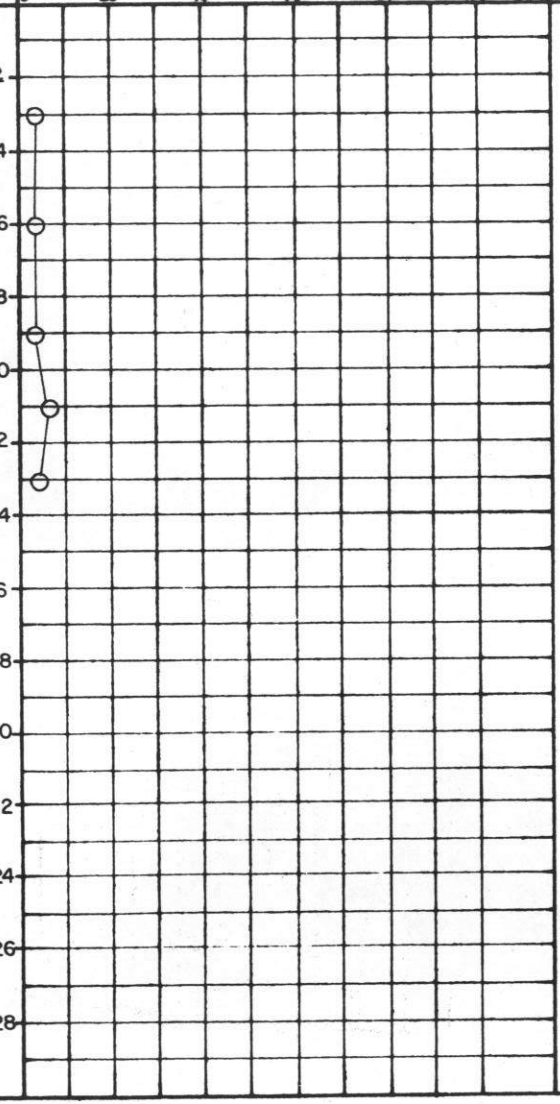
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TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 824-2

MILE 789

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						GRAVEL -Sandy Clayey		Nil					Damp	
4							F							
6								Ice					Damp	
8								Nbn					Damp	
10						10'							Damp	
12						SAND -Silty Pebbles							Damp	
14						14'								
16						BOTTOM OF HOLE - 14'								
18														
20														
22														
24														
26														
28														



DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-103 | CHAINAGE. 3426+00 | OFFSET. ℄

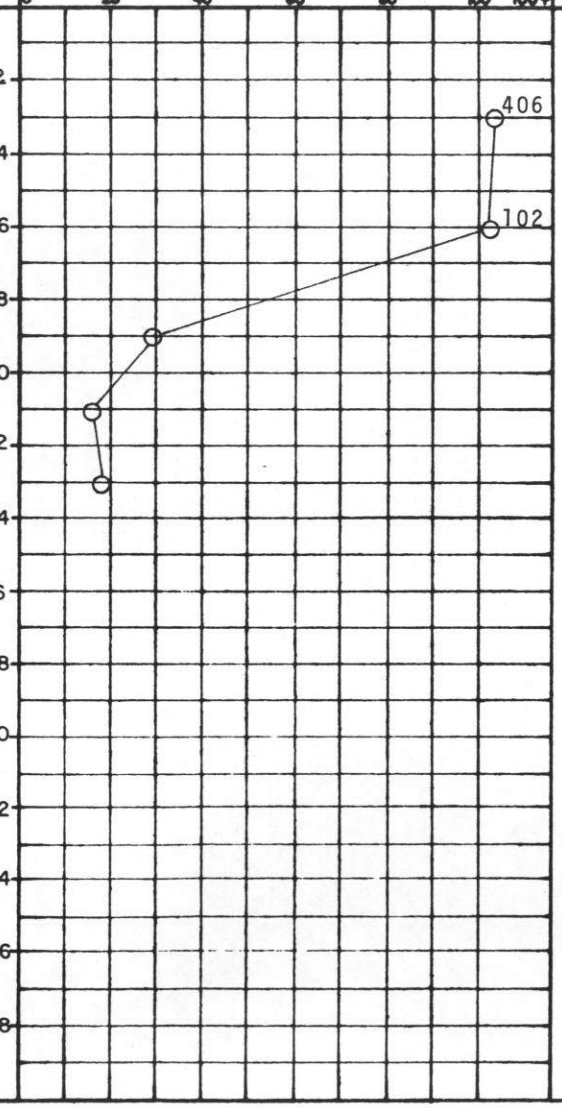
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 825

MILE 789

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		High Ice
5'								
6						CLAY -Silty Sandy Pebbles	F	Vs
10						Gravelly		Moderate Ice
12					CL	Low plastic		
15'								
16						GRAVEL -Sandy Boulders		Low Ice Vx
20								
20'						BOTTOM OF HOLE - 20'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Free Water	
6					Free Water	
10					Sat.	
12					Sat.	
14					Wet	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-103 | CHAINAGE. 3420+00 | OFFSET. ℄

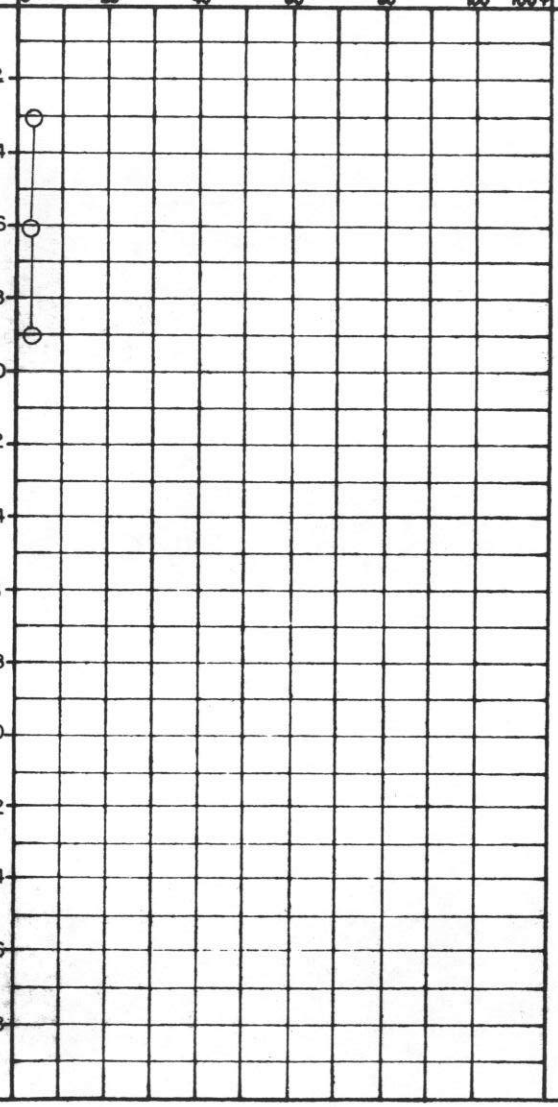
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 826

MILE 789

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2					GW	GRAVEL -Sandy Silty	F	Nil Ice Nbn
4								
6								
8					SM	SAND-Coarse Silty, pebbles 8' – 10'		
10						BOTTOM OF HOLE - 10' Hole Caving in		
12								
14								
16								
18								
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Humid	
				Humid	
				Humid	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-103 | CHAINAGE. 3409+00 | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 827

MILE 788

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		Nil
2					GC	GRAVEL-SAND MIX -Clayey		Ice
4								
6					SM	SAND-Coarse Silty, pebbles 7'		Nbn
8						BOTTOM OF HOLE - 7'		
10						Hole Caving in		
12								
14								
16								
18								
20								
22								
24								
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Humid	
				Humid	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. A 22861-103 | CHAINAGE. 3398+00 | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 828

MILE 788

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		Nil
2						GRAVEL -Sandy Clayey		Ice
4								
6					GC			Nbn
8						— 8'		
10						BOTTOM OF HOLE - 8'		
12						Hole Caving in		
14								
16								
18								
20								
22								
24								
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Humid	
				Humid	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

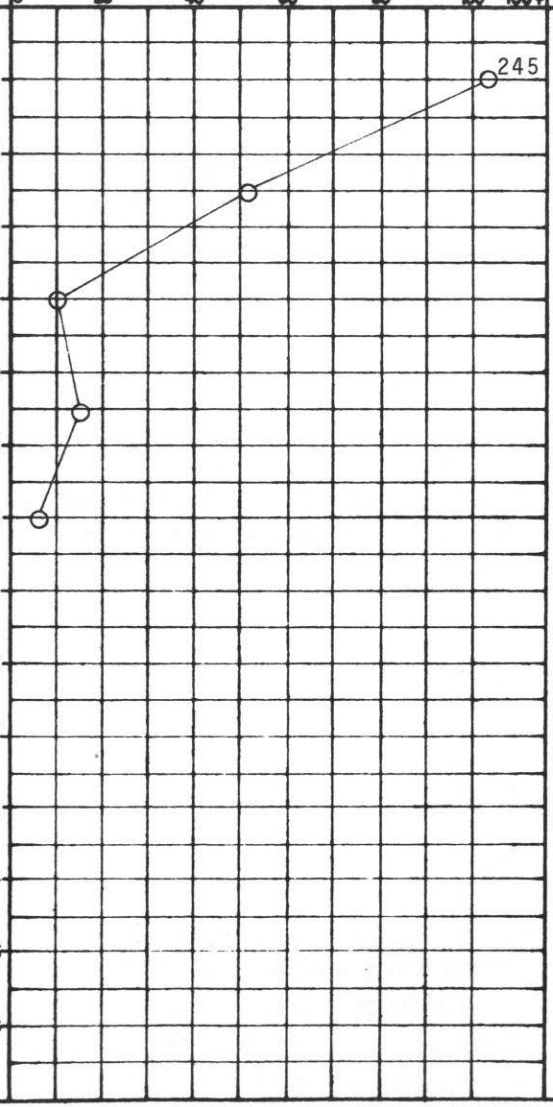
DRILL HOLE REPORT

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FIELD ENG. N. BURGRESS	DATE DRILLED. 7/3/74	AIRPHOTO NO. A 22852-163	CHAINAGE. 3384+00	OFFSET. ℄	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 829
					MILE 788

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		High
						2'		
					OL	ORGANIC SAND		
4						4'		Ice
					CL	CLAY -Silty Sandy Gravelly		
6								Vs
8						8'		Moderate
						GRAVEL -Sandy Clayey	F	
10					GC			Vc - Vr
12								
14								To
16								Low
18						18'		Ice
						CLAY -Silty Sandy Gravelly		
20					CL			
22					CI			Vx
24								Content
26								
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Free Water	
4					Free Water	
8					Wet	
10					Wet	
14					Wet	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. A 22852-163 | CHAINAGE. 3378+00 | OFFSET. ℄

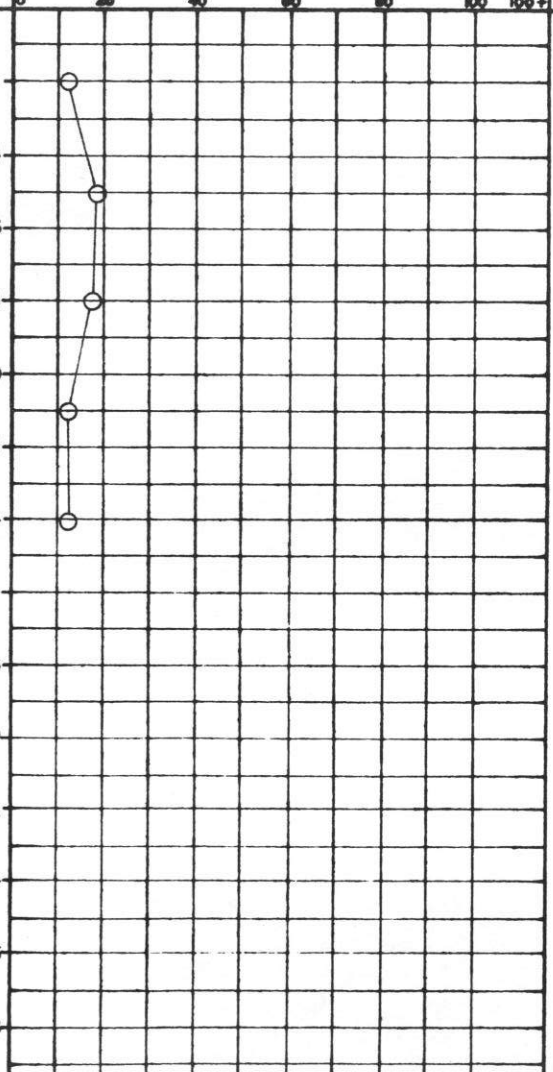
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 830

MILE 788

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
1'								
2					CL	CLAY -Sandy Silty Pebbles		Moderate Vc - Vr Ice
5'								
6					GC	GRAVEL-SAND-CLAY		
8								Low Ice Content Vx
10							F	
11'								
12					CL	CLAY -Sandy Silty Pebbles		
14								
16								
18						Gravelly		
20								
22								
24								
25'								
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Sat.	
				Moist	
				Humid	
				Moist	

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 7/3/74	AIRPHOTO NO. A 22852-163	CHAINAGE. 3363+00	OFFSET. ℄	TEST HOLE	831
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE	787

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT — 2'		Low					Moist	
4						CLAY -Sandy Silty Gravelly Low-med plastic		Ice					Moist	
6								Content						
8													Moist	
10					CL		F							
12					CI			Vx					Moist	
14													Moist	
16														
18														
20														
22														
24														
26														
28						30'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. A 22852-163 | CHAINAGE. 3348+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 832

MILE 787

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT — .5'								
2					CL	CLAY -Silty Sandy Pebbles Low-med plastic	F	Low Ice Content					Damp	
4													Damp	
6					CI									
8													Moist	
10													Damp	
12					GC	GRAVEL -Sandy Clayey — 11.5'		Vx					Damp	
14													Damp	
16														
18					CI	CLAY -Silty Sandy Pebbles Med plastic — 17'								
20														
22														
24														
26														
28						29'							Damp	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 7/3/74	AIRPHOTO NO. A 22852-163	CHAINAGE. 3338+00	OFFSET. ℄	TEST HOLE 833
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	MILE 787

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						SAND -Silty Sandy Gravelly Low-med plastic		Low					Damp	
4													Damp	
6					CL			Ice						
8					CI		F						Damp	
10													Damp	
12								Content						
14													Damp	
16								Vx						
18														
20														
22														
24					SM ML	SAND-SILT MIX. from 28'-29'								
26														
28														
						29'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 160+

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. A 22852-161 | CHAINAGE. 3325+00 | OFFSET. ℄

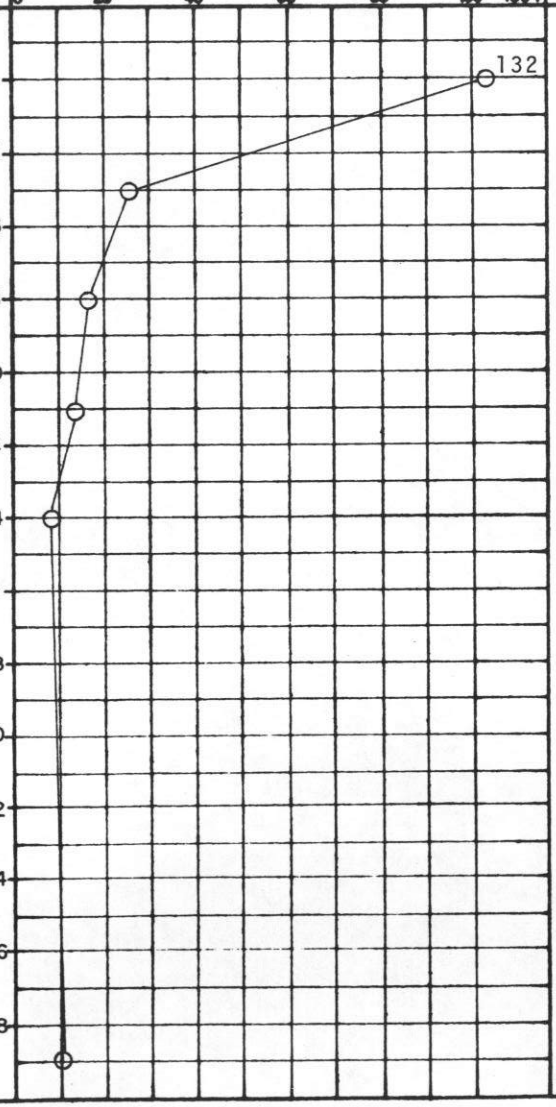
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 834

MILE 787

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High
2						2'		
					OH CL	ORGANIC CLAY		Ice
4						4'		
					SC	SAND -Silty Clayey Pebbles		Vs
8						8'		
					CL	CLAY -Silty Sandy Pebbles Low plastic Gravelly	F	Low Ice Content Vx
28						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Sat.	
					Free Water	
					Moist	
					Damp	
					Damp	
					Damp	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. A 22852-161 | CHAINAGE. 3314+00 | OFFSET. ℄

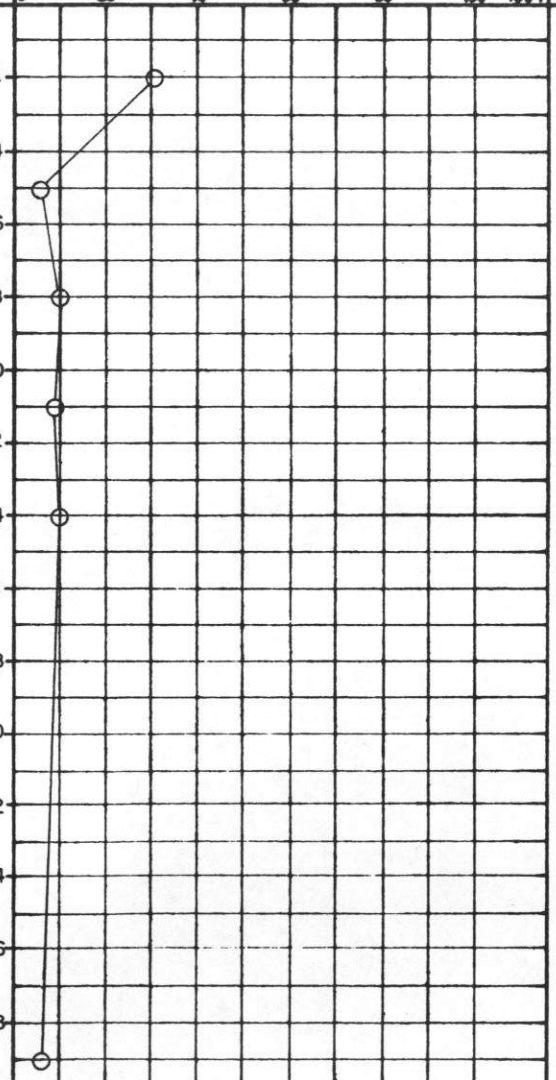
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. POOR | VEGETATION. SPRUCE-BIRCH-WILLOWS | ELEV.

TEST HOLE 835

MILE 787

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		High Ice
						3'		
4					CL	GRAVELLY CLAY		Vs
						4.5'		
6					GP	GRAVEL -Sandy		Low To Moderate
8							F	
10								
12					GC	Sandy clayey		Ice Content
14								
16								Vx
18								
20								Vc - Vr
22								
24								
						24'		
26					CL CI	CLAY -Silty Sandy Pebbles Low-med plastic		
28								
						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Moist
				Wet
				Wet
				Sat.
				Damp

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. A 22852-161 | CHAINAGE. 3305+00 | OFFSET. ℄

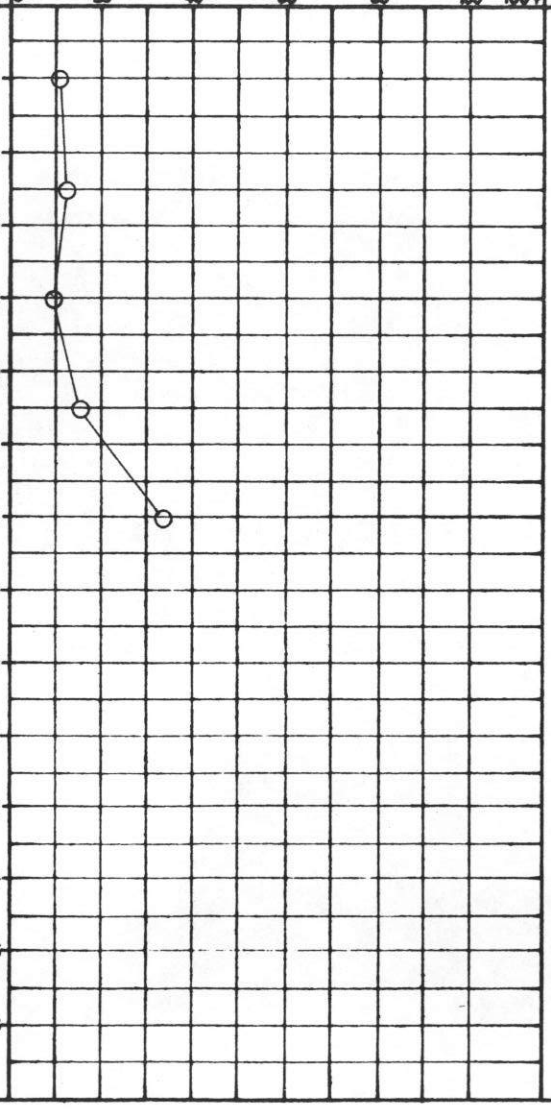
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 836

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1½'		
2						SHALE -Sandstone Pebbles Broken down		Low
4								To
6						6'		Moderate
8					GP	GRAVEL -Sandy Siltstone fragments	F	Ice
10								
12						12'		
14					CL	CLAY -Sandy Silty 14'-15' some org. material Low plastic		Content Vx Vc - Vr
16								
18								
20								
22								
24								
26								
28								
						29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Wet	
				Wet	
				Moist	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

APPROX. ABOVE WATER: 10' ± SOUTH OF CREEK

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22852-161 | CHAINAGE. 3296+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. SPRUCE | ELEV.

TEST HOLE 837

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT	F	High Ice Vs
1.5'								
2–6					CL	CLAY -Silty Org. mat. to 3' Low plastic Sandy Silty		
7'						GRAVEL-SHALE-SILTSTONE CLAY		Low Ice Content Vx
17'						SHALE -Siltstone CLAY -Silty		
29'						SHALE -Soft		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Free Water	
4–6					Sat.	
8					Wet	
10–12					Wet	
14					Moist	
16–18						
20					Moist / Damp	
22–24						
24–26					Damp	
28					Damp	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

APPROX. 10' ABOVE WATERLINE - 15' NORTH OF CREEK

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22852-161 | CHAINAGE. 3296+00 | OFFSET. ℄

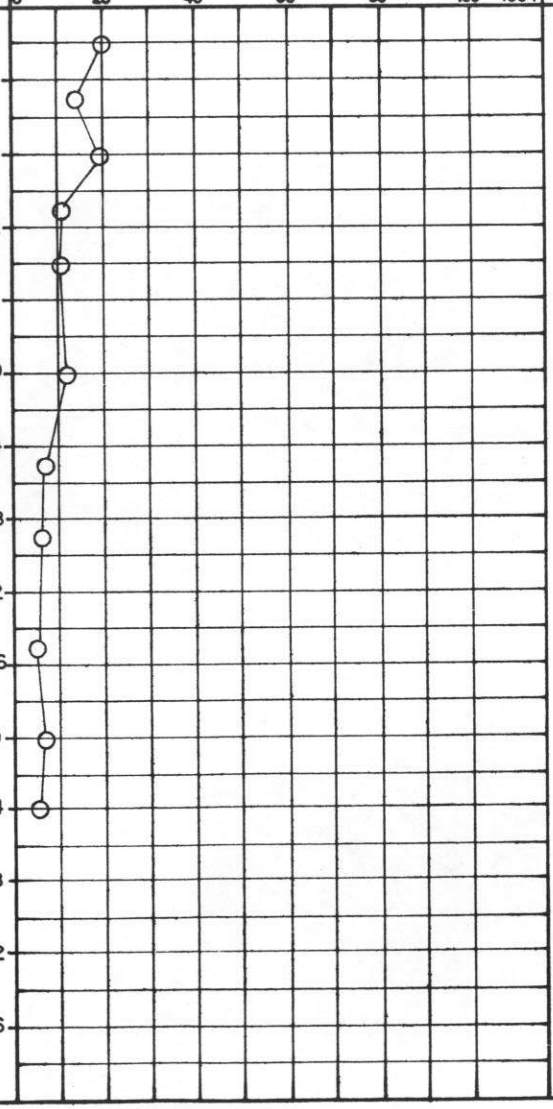
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. SPRUCE | ELEV.

TEST HOLE 837-A

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1.5'		
4					SM	SAND -Silty Org. material Sandstone Shale-siltstone Sand coarse	F	Moderate Vc - Vr Ice
8								
12						12'		Low Ice Content Vx
16					GC	GRAVEL -Sandy Clayey		
20						19'		
					CL	CLAY -Silty, sandy Siltstone frags. Hard Sandstone frags.		
24								
28					CL			
						29½'		
32						SHALE -Sandstone Alternating layers of soft & hard	F	Frozen Nbn
36								
40								
44						44'		
48						BOTTOM OF HOLE - 44'		
52								
56								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Damp Wet Wet Wet Wet Damp Damp Humid Damp Damp Damp

REMARKS

DS-14-5-74 a

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22852-161 | CHAINAGE. 3296+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 837-B

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2						ICE 3'		ICE
4						WATER 6½'		WATER
6						BOTTOM OF HOLE - 6½'		
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 102+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	

REMARKS

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22852-161 | CHAINAGE. 3284+00 | OFFSET. ℄

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. POOR | VEGETATION. SPRUCE | ELEV.

TEST HOLE 838

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2						CLAY		
						-Silty		
						Sandy		
4						Pebbles		Low
6					CL	Low-med plastic		
8								
					CI			
10							F	
12								
								Vx
14								
16								
18								
20								Ice
22								
								Content
24						24'		
						SILTSTONE-Black		
						25.5'		
26						SAND-Silty (sandstone)		
						Extremely hard drilling		
28						27'		
						BOTTOM OF HOLE - 27'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

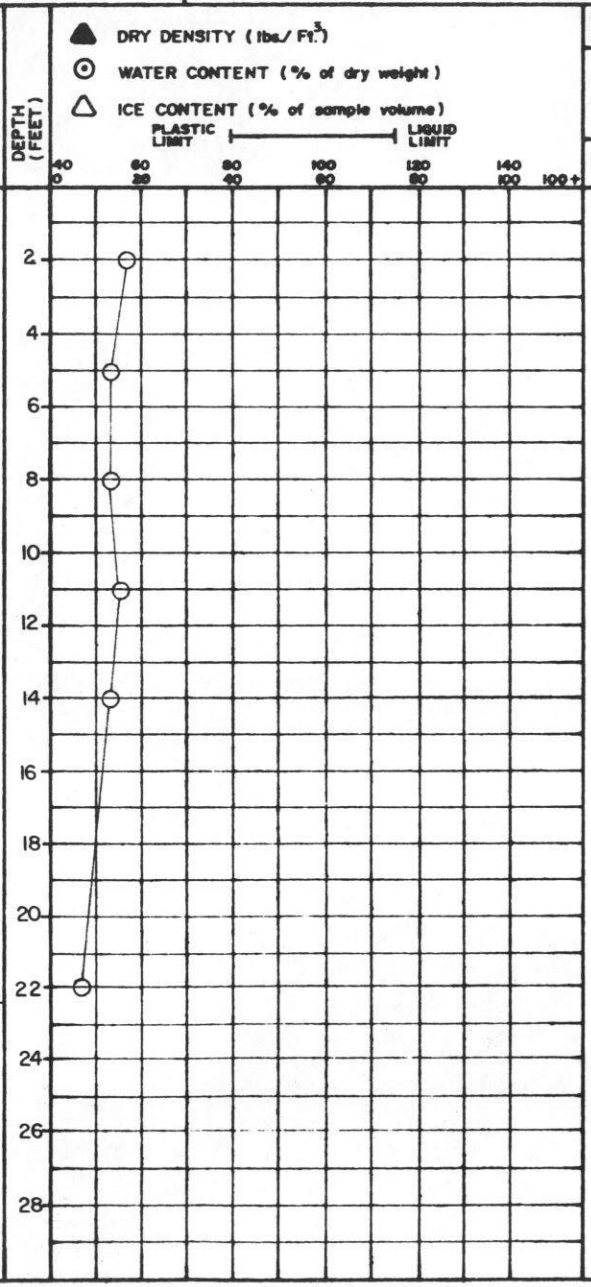
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 8/3/74	AIRPHOTO NO. A 22852-161	CHAINAGE. 3272+00	OFFSET. ℄	TEST HOLE 839
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE & TAMARACK	ELEV.	MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — .5'		
2						CLAY		Low
4						-Silty Sandy Pebbles Med plastic		
6					CI			Ice
8								
10							F	Content
12								
14								Vx
16								
18								
20								
						21½'		
22						SANDSTONE-Hard to drill		
						22'		
24						BOTTOM OF HOLE - 22'		
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 8/3/74	AIRPHOTO NO. A 22852-161	CHAINAGE. 3260+00	OFFSET. ℄
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.

TEST HOLE 840

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Moderate Ice
						1.5'		
4						CLAY -Silty Sandy Pebbles Med plastic		Vc - Vr
6								
8							F	Low
10					CI			Ice
12								
14								Content
16								
18								Vx
20								
22								
24								
26								
28								
						29'		

DEPTH (FEET)

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Moist
				Damp
				Damp
				Damp
				Damp

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22761-152 | CHAINAGE. 3250+00 | OFFSET. ℄

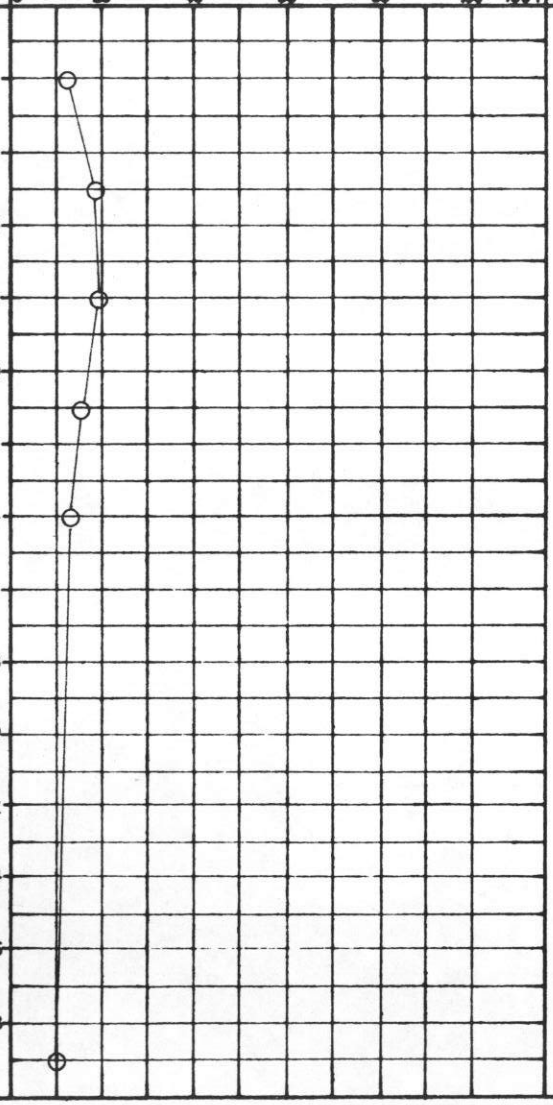
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 841

MILE 785

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
1.5'								
2					CL	CLAY -Silty Sandy Pebbles Low-med plastic	F	Moderate Ice Vc - Vr
10					CI			Low Ice Content
28								Vx
28'						SILTSTONE-SHALE -Black, hard		Nbn
29'								

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Moist	
				Damp	
				Damp	
				Humid	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22761-152 | CHAINAGE. 3235+00 | OFFSET. ℄

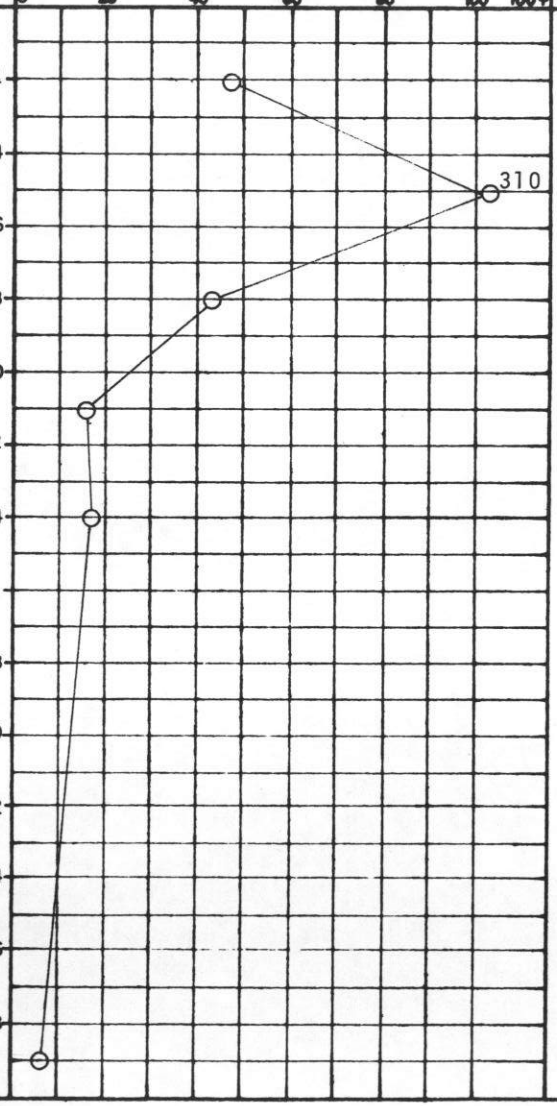
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 842

MILE 785

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2'								High
					Pt	CLAY & SILT PEAT		
4								
					OH			Ice
6								
7.5'								Content
8					CI	CLAY -Silty Sandy Some org. mat. Pebbles		
10								Vs
11'								
12						SAND -Silty Clayey	F	Moderate Ice
14					SC			Vc - Vr
16								Nil
17'								
18						SHALE -Siltstone Black Soft-hard		Ice
20								Content
22								Nbn
24								
26								
28								
29'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Sat.	
				Wet	
				Wet	
				Wet	
				Humid	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22761-152 | CHAINAGE. 3223+00 | OFFSET. ℄

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 843

MILE 785

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High Ice
1'								
2					CI	CLAY -Silty Sandy Pebbles Medium plastic	F	Vs
4								
6								Low Ice
8								
10								Vx
12								Low To
14								
15'								
16						SHALE -Siltstone Soft-hard		Nil Ice Content
18								
20								
22								Vx
24								
26								Nbn
28								
29'								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Sat.	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22761-152 | CHAINAGE. 3212+00 | OFFSET. ℄

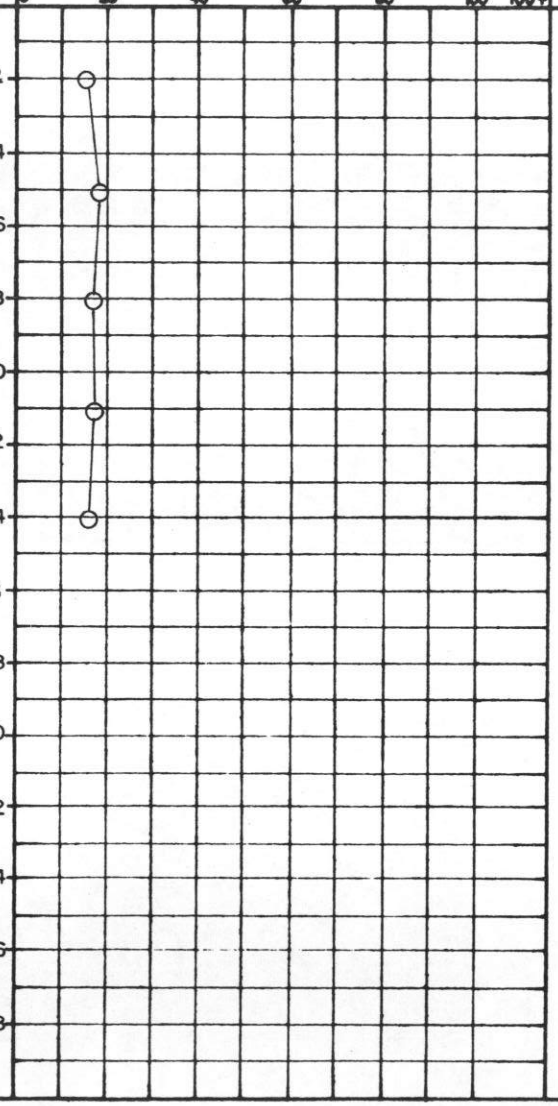
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 844

MILE 785

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2						CLAY		Moderate
4						-Silty		To
6						Sandy		Low
8						Pebbles		Ice
10					CI	Med plastic	F	Content
12								Vc - Vr
14								Vx
16								
18								
20								
22								
24								
26						25' — BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Damp
4					
6					Wet
8					Moist
10					
12					Damp
14					Damp

REMARKS

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22761-152 | CHAINAGE. 3201+00 | OFFSET. ℄

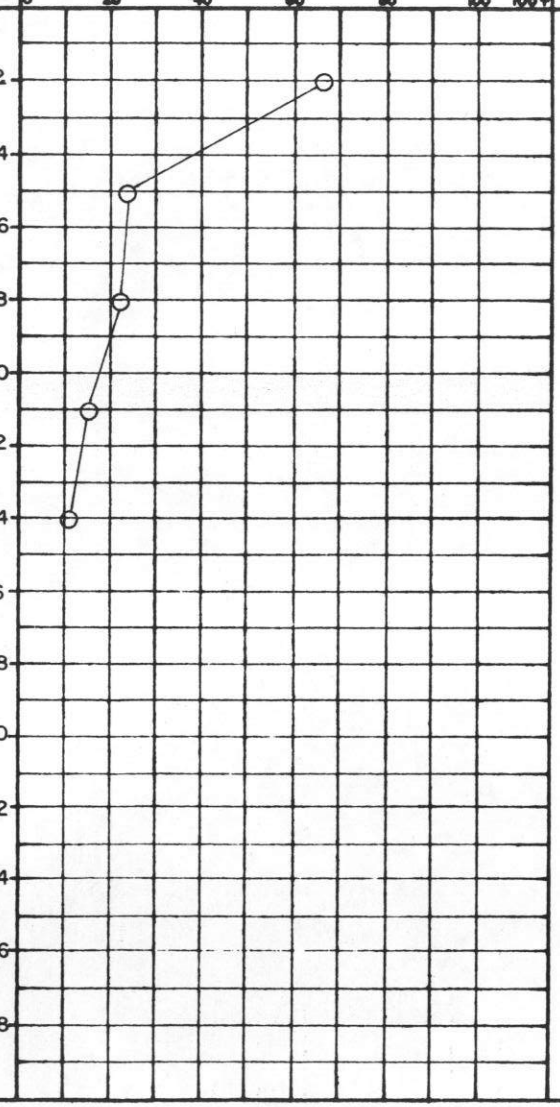
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 845

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		High Ice
						2.5'		
4						CLAY -Silty Sandy Pebbles Med plastic		Vs
6								
8					CI		F	
10								
12								
14						Shale fragments 14'-20'		Low Ice Content
16								
18								
20								
22								Vx
24								
26								
28								
						29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Sat.	
				Moist	
				Damp	
				Damp	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22761-152 | CHAINAGE. 3190+00 | OFFSET. ℄

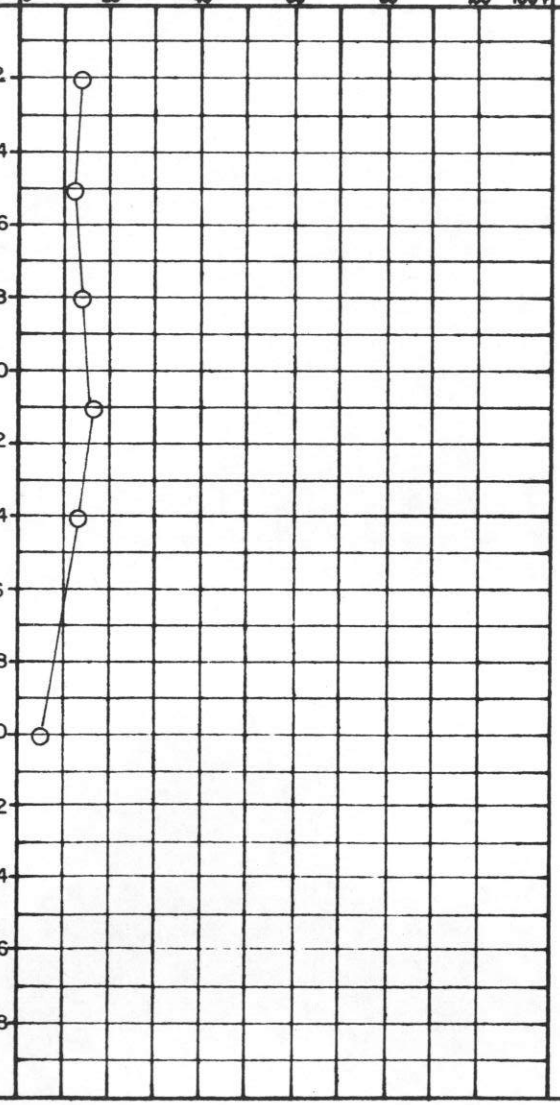
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 846

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		Low
2						CLAY		To
4						-Silty		
6					CL	Sandy		No
8						Pebbles		Visible
10					CI	Low-med plastic	F	Ice
12								Vx
14						Siltstone fragment		Nbn
16						— 15'		
18						SHALE		Nbn
20						-Siltstone		Frozen
22						Soft-hard		
24								
26								
28						— 29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	DEPTH (FEET)
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	2
				Damp	6
				Damp	8
				Damp	12
				Damp	14
				Humid	20

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. A 22761-152 | CHAINAGE. 3178+00 | OFFSET. ℄

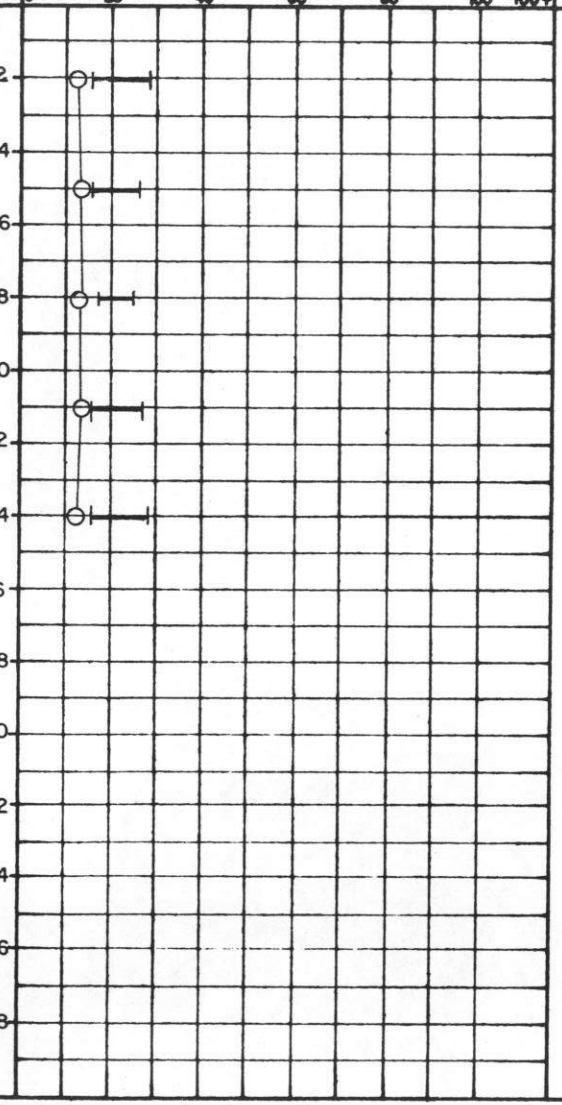
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 847

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2						CLAY -Silty Sandy Pebbles Low plastic		
4								
6								
8								
10					CL		F	No
12								Visible
14								Ice
16								
18								Nbn
20								
22								
						23'		
24						SHALE -Siltstone		
26								
28								
						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2	62	34	4		Damp	
6	56	38	6		Damp	
8	51	47	2		Damp	
12	63	31	6		Damp	
14	65	30	5		Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 9/3/74 | AIRPHOTO NO. A 22852-157 | CHAINAGE. 3160+00 | OFFSET. ℄

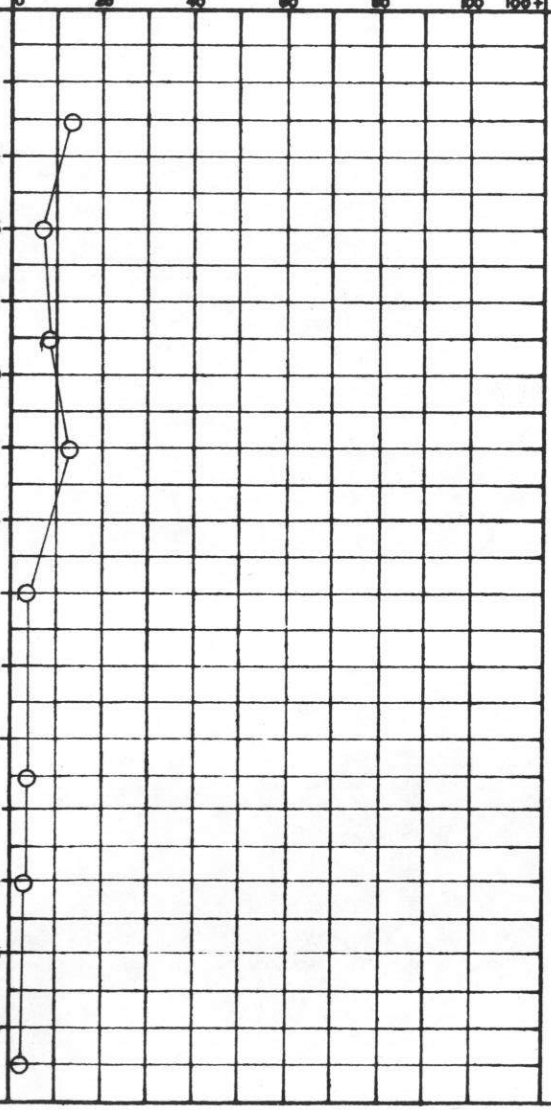
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE-TAMARACK 3" | ELEV.

TEST HOLE 848

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2						CLAY -Gravelly Silty Sandy Low plastic		
4								
6					CL			
8						— 7.5'	F	
10						GRAVEL-SAND-CLAY MIX		Low
12					CL GC			Ice
14						— 15'		
16						SHALE -Silty Med-hard-hard		Vx
18								
20								
22								
24								
26								
28						— 30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Moist
				Wet
				Wet
				Moist
				Moist
				Moist
				Moist

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 9/3/74 | AIRPHOTO NO. A 22852-157 | CHAINAGE. 3150+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 6" | ELEV.

TEST HOLE 849

MILE 783

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.4'		Moderate Ice
2						CLAY -Silty Sandy Pebbles Low plastic		Vc - Vr
8							F	Low Ice
10					CL			
16						Shale fragments		Vx
30								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Moist	
				Sat.	
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

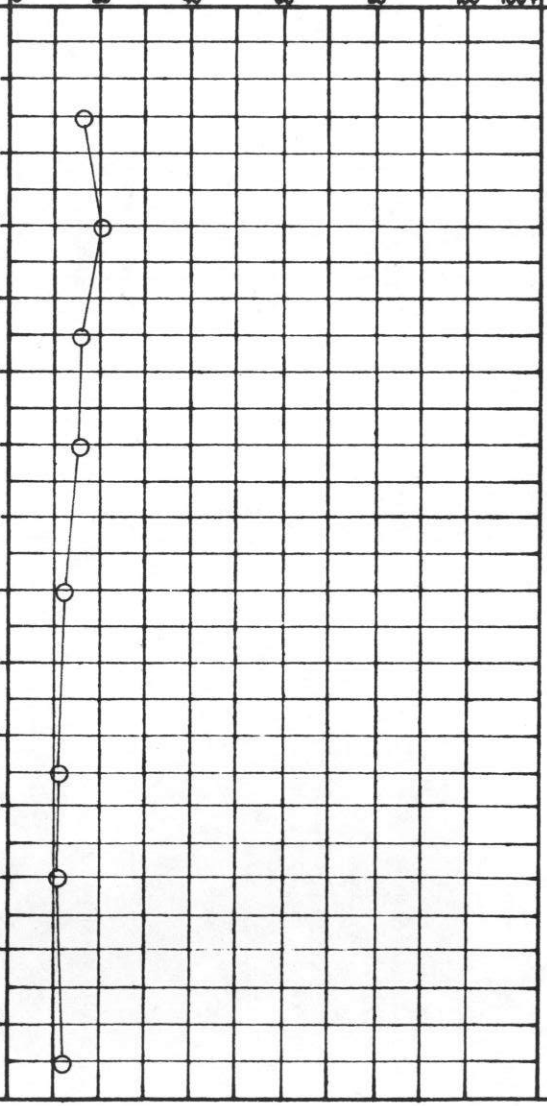
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 9/3/74	AIRPHOTO NO. A 22852-157	CHAINAGE. 3137+00	OFFSET. ℄	TEST HOLE	850
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-MAX. 4"	ELEV.	MILE	783

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.7'		Moderate
2						CLAY		Ice
4						-Silty		
6						Sandy		Vc - Vr
8						Pebbles		
10					CL	Low-med plastic	F	
12						Gravelly		Low
14					CI	Shale fragments		Ice
16						Pebbles		
18						Shale fragments		Vx
20								
22								
24								
26								
28						30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Sat.	
				Wet	
				Moist	
				Moist	
				Damp	
				Moist	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

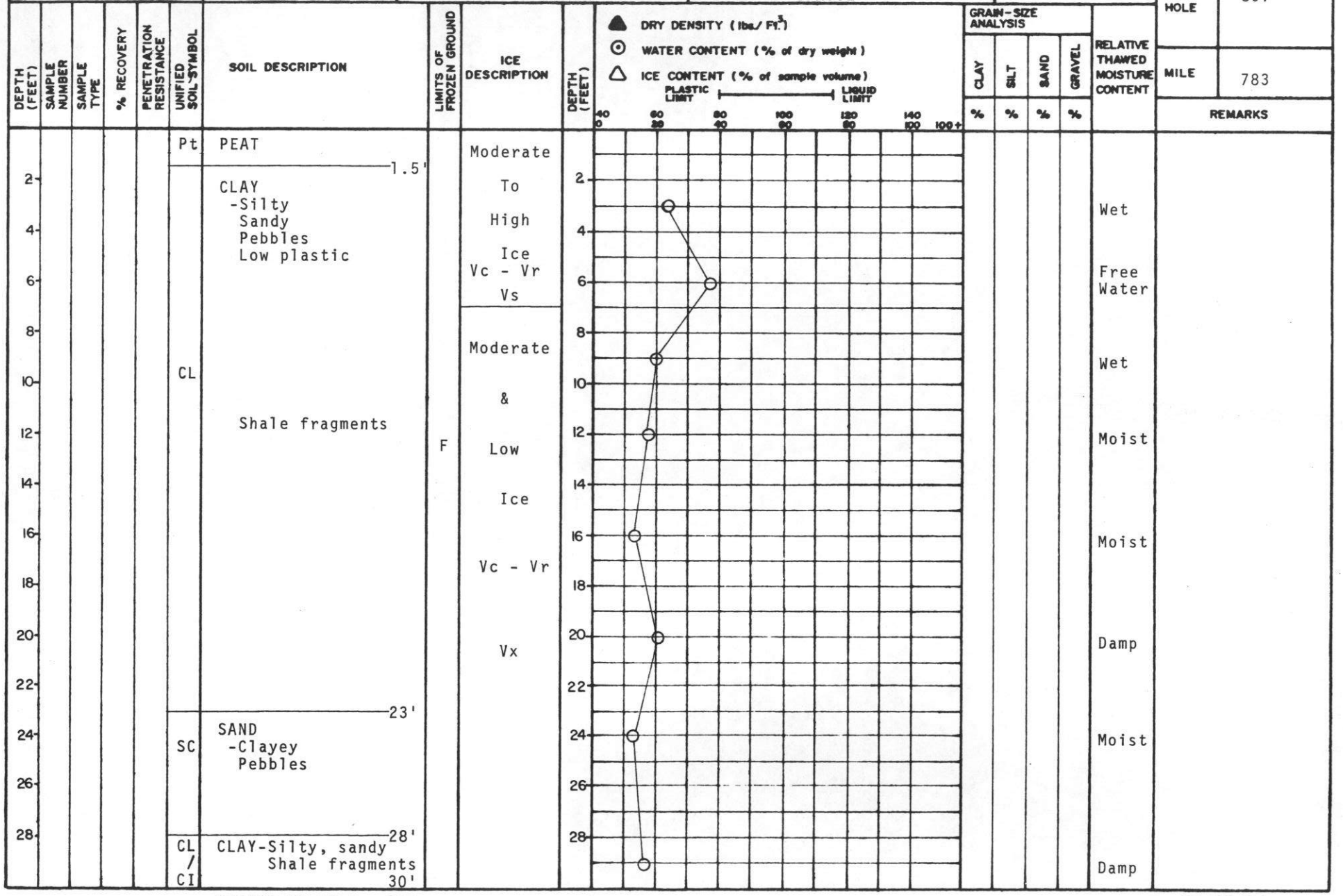
SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 9/3/74 | AIRPHOTO NO. A 22852-157 | CHAINAGE. 3129+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE | ELEV.

TEST HOLE 851

MILE 783



BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 9/3/74	AIRPHOTO NO. A 22852-157	CHAINAGE. 3115+00	OFFSET. ℄	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 4"	ELEV.	TEST HOLE 852
					MILE 783

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT — 1.2'	F	High Ice	Free Water
2					CL	CLAY -Silty Sandy Pebbles Low plastic		Vs	Free Water
8					CI	Med plastic		Moderate Ice	Wet
14								Vc - Vr	Wet
16									Moist
18								Low Ice	
20									Damp
24								Vx	Damp
28						30'			Damp

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 9/3/74	AIRPHOTO NO. A 22852-157	CHAINAGE. 3101+00	OFFSET. ℄	TEST HOLE 853
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE	ELEV.	MILE 783

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT .8'								
2						CLAY		Moderate					Moist	
4						-Silty								
						Sandy								
						Pebbles								
6						Low plastic		Ice					Wet	
8														
						Shale fragments	F						Moist	
10					CL									
12								Vc - Vr					Moist	
14														
16													Moist	
18														
20													Moist	
22														
24													Moist	
26														
28						30'							Damp	

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 9/3/74	AIRPHOTO NO. A 22852-155	CHAINAGE. 3092+00	OFFSET. ℄	TEST HOLE 854
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 5"	ELEV.	MILE 782

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT .9'								
2						CLAY							Damp	
4						-Silty								
						Sandy								
6						Pebbles		Low					Damp	
						Low-med plastic								
8					CL			Ice					Damp	
10					CI		F							
12													Damp	
14								Vx						
16						Shale fragments							Damp	
18														
20													Humid	
22														
24													Humid	
26														
28													Humid	
						30'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 100+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

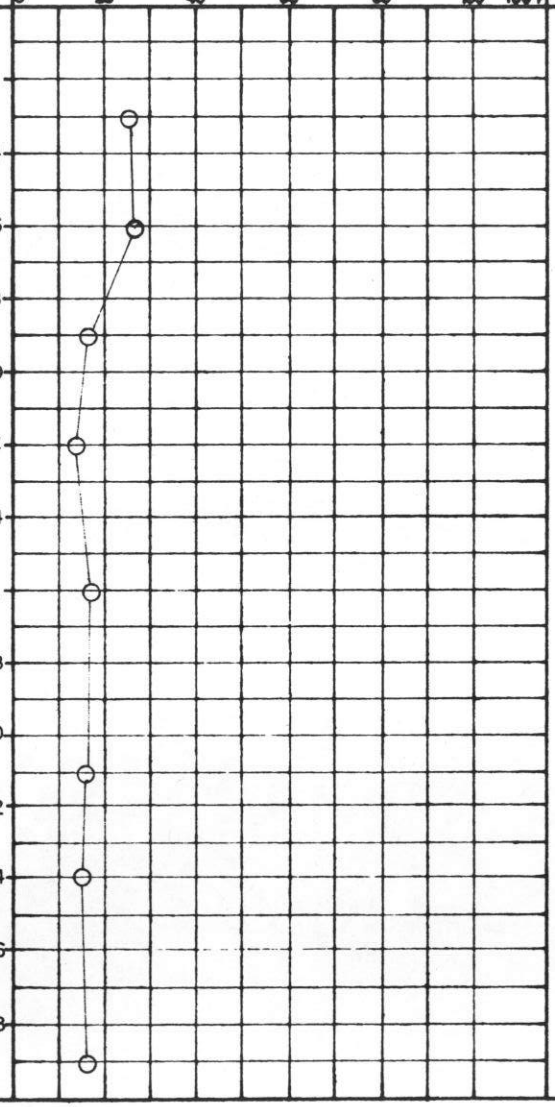
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 10/3/74	AIRPHOTO NO. A 22852-155	CHAINAGE. 3077+00	OFFSET. ℄	TEST HOLE 855
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 6"	ELEV.	MILE 782

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .8'		High
2						CLAY		Ice
4						-Silty Sandy Pebbles Low plastic		
6								Vs
8							F	Moderate
10					CL			Ice
12								
14								Vc - Vr
16								
18								
20								
22								
24								
26								
28						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Sat.	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 22852-155 | CHAINAGE. 3067+00 | OFFSET. ℄

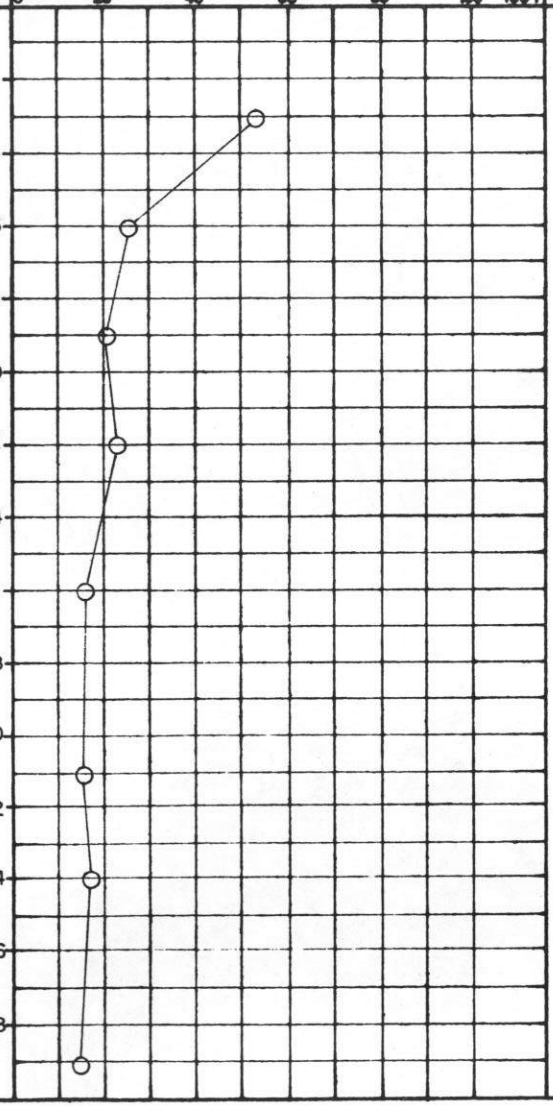
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. 4" | ELEV.

TEST HOLE 856

MILE 782

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY		High
						-Silty		
						Sandy		Ice
4						Pebbles		
						Low-med plastic		
6								Vs
					CL			
8								
10					CI		F	Low
12								
								Ice
14						Shale fragments		
16								Vx
18								
20								
22								
24								
26								
28								
						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Sat.	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/4/74 | AIRPHOTO NO. A 22852-155 | CHAINAGE. 3059+00 | OFFSET. ℄

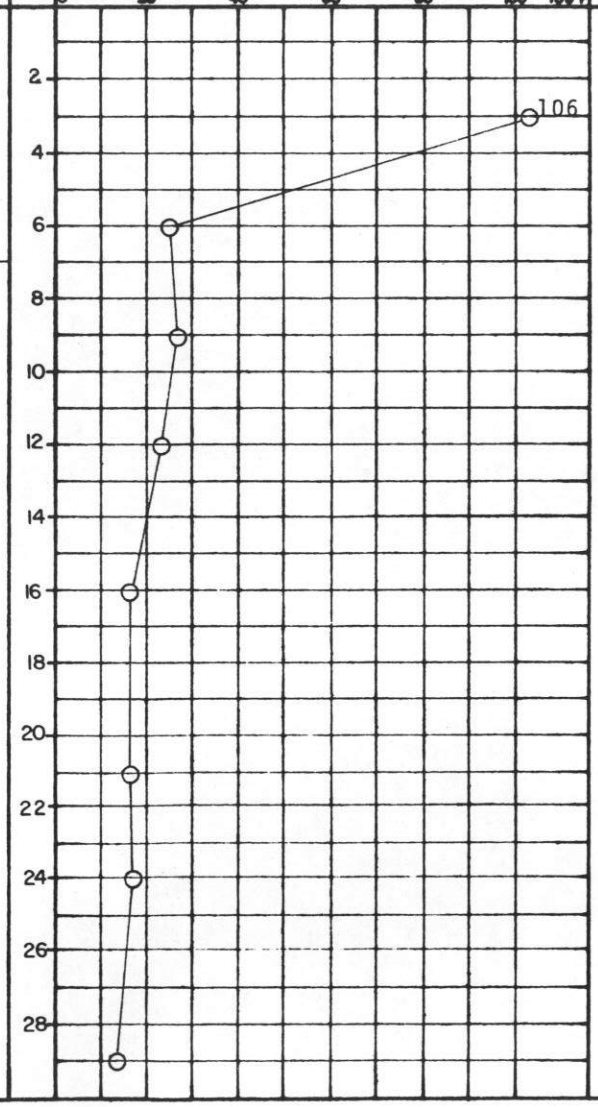
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. 4" | ELEV.

TEST HOLE 857

MILE 782

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .9'		High
2						CLAY		Ice
4						-Organics to 4"		
6						Silty		Vs
8					CL	Sandy		Moderate
10						Pebbles	F	
12					CI	Low-med plastic		Ice
14								Vc - Vr
16						Shale fragments		
18								
20								
22								
24								
26								
28						30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Free Water
				Sat.
				Wet
				Wet
				Moist
				Moist
				Moist
				Damp

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 27852-155 | CHAINAGE. 3050+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 8" | ELEV.

TEST HOLE 858

MILE 782

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate
1.2'								
2						CLAY		Ice
						-Silty		
						Sandy		
						Pebbles		
						Low plastic		
6								Vc - Vr
8					CL		F	
10								Low
12								
14								Ice
						Shale fragments		
16								
18								Vx
20								
22								
24								
26								
28								
30'								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

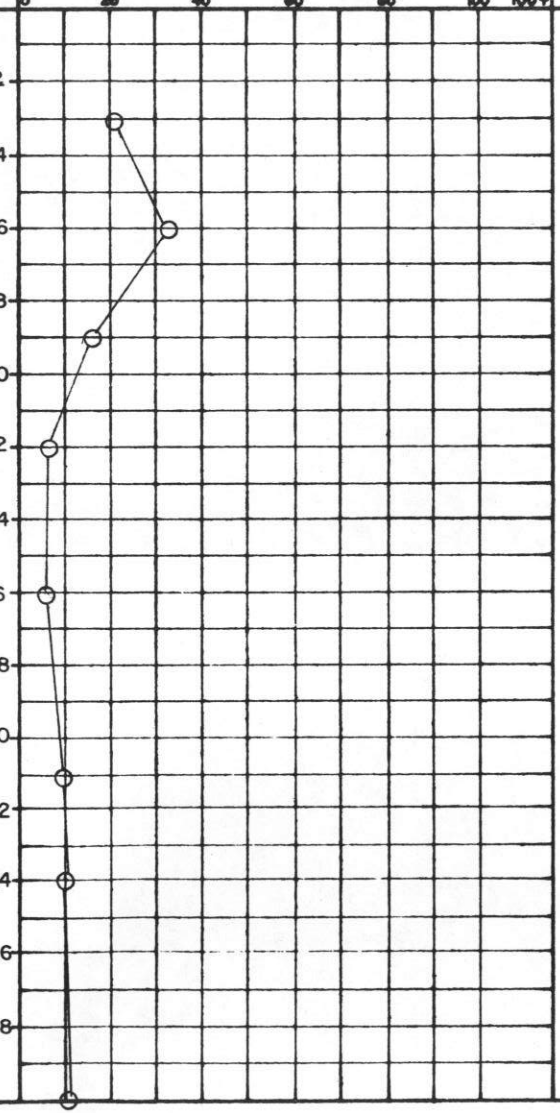
SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 10/3/74	AIRPHOTO NO. A 23337-34	CHAINAGE. 3036+00	OFFSET. ℄	TEST HOLE 859
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 7"	ELEV.	MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT — 1'		Moderate	
2						CLAY -Silty S ndy Pebbles		Ice	Wet
4									
6					CL	Shale fragments			Wet
8					CI	Low-med plastic		Vc - Vr	Moist
10						— 11'			
12						SHALE -Siltstone Soft Sandstone Soft	F	Low	Moist
14								Ice	
16									Moist
18								Vx	
20									Moist
22									
24									Moist
26									
28									Moist
						30'			

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				
CLAY %	SILT %	SAND %	GRAVEL %	REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-34 | CHAINAGE. 3024+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 4" | ELEV.

TEST HOLE 860

MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.1'		High
2						CLAY		Ice
4						-Organics to 4'		
6						Silty		Vs
8						Sandy		
10					CL	Pebbles	F	Low
12						Low plastic		Ice
14						Shale & Siltstone Fragments		
16								Vx
18								
20								
22								
24								
26								
28						30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Sat.	
6					Free Water	
10					Wet	
12					Moist	
16					Damp	
20					Damp	
24					Damp	
28					Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 6/3/74	AIRPHOTO NO. A 23337-34	CHAINAGE. 3010+00	OFFSET. ℄	TEST HOLE 861
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 5"	ELEV.	MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT		Moderate Ice					Wet	
1.4'														
2						CLAY -Silty Sandy Pebbles		Vc - Vr					Wet	
4														
6														
8								Low Ice					Moist	
10						Shale fragments	F							
12					CL	Low plastic							Moist	
14								Vx						
16													Damp	
18														
20													Damp	
22														
24													Damp	
26														
28													Damp	
30'														

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-34 | CHAINAGE. 3000+00 | OFFSET. ℄

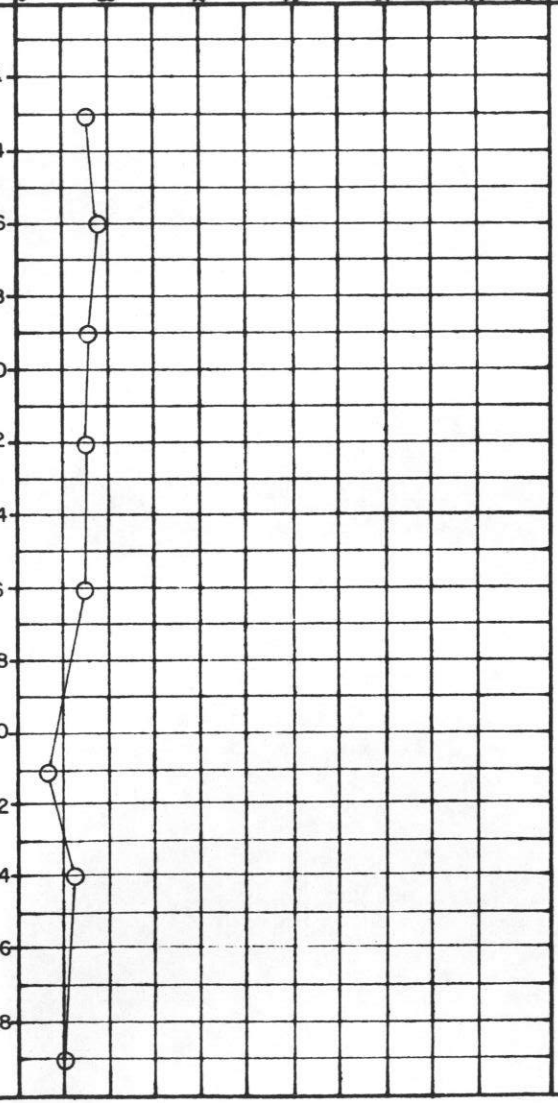
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. 7" | ELEV.

TEST HOLE 862

MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1.8'								
2						CLAY -Silty S ndy Pebbles Shale fragments							Moist	
4								Low						
6						Low-med plastic		Ice					Moist	
8														
10					CL		F						Moist	
12					CI			Vx					Moist	
14														
16													Moist	
18														
20													Damp	
22														
24													Moist	
26														
28						28' SILTSTONE-SHALE Soft 30'								Damp	

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+



BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-34 | CHAINAGE. 2990+00 | OFFSET. ℄

TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 863

MILE 780

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT — 1'		Moderate	
2						CLAY			
						-Silty			
4						Sandy		Ice	Moist
						Pebbles			
6								Vc - Vr	Wet
							F		
8									
						Shale fragments			Moist
10									
						Low-med plastic			
12								Low	Damp
					CL				
14					CI			Ice	Damp
16									
18									
								Vx	
20									
22									
24									
						25'			
26						SHALE-SILTSTONE			
						-Soft			
28									
						30'			Damp

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-34 | CHAINAGE. 2982+00 | OFFSET. ℄

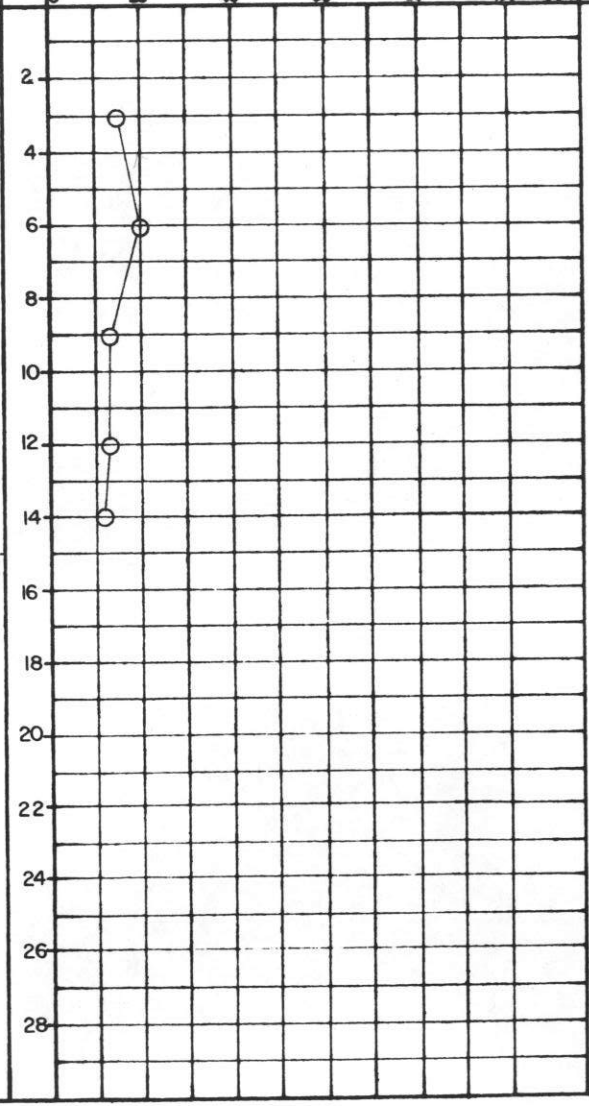
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 864

MILE 780

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2						CLAY -Silty Sandy Pebbles		
4								
6					CL	Low-med plastic		Low
8					CI			Ice
10						Shale fragments	F	Vx
12								
14						— 15'		
16						SHALE -Silty Med hard		Frozen
18								Nbn
20								
22								
24								
26								
28						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
6					Moist	
8					Damp	
12					Damp	
14					Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-34 | CHAINAGE. 2973+00 | OFFSET. ℄

TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 865

MILE 780

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		High Ice
2–30						CLAY -Silty Sandy Pebbles	F	Vs; Low Ice; Vx

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Free Water	
6					Sat.	
10					Moist	
12					Moist	
16					Damp	

30'

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 10/3/74	AIRPHOTO NO. A 23337-14	CHAINAGE. 2959+00	OFFSET. ℄	TEST HOLE 866
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 780

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate Ice
2'								
						CLAY -Organic to 4' Silty Sandy Pebbles Low-med plastic		Vc - Vr
					CL	Shale fragments		Low
					CI		F	Ice
								Vx
30'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Wet	
				Moist	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-14 | CHAINAGE. 2949+00 | OFFSET. ℄

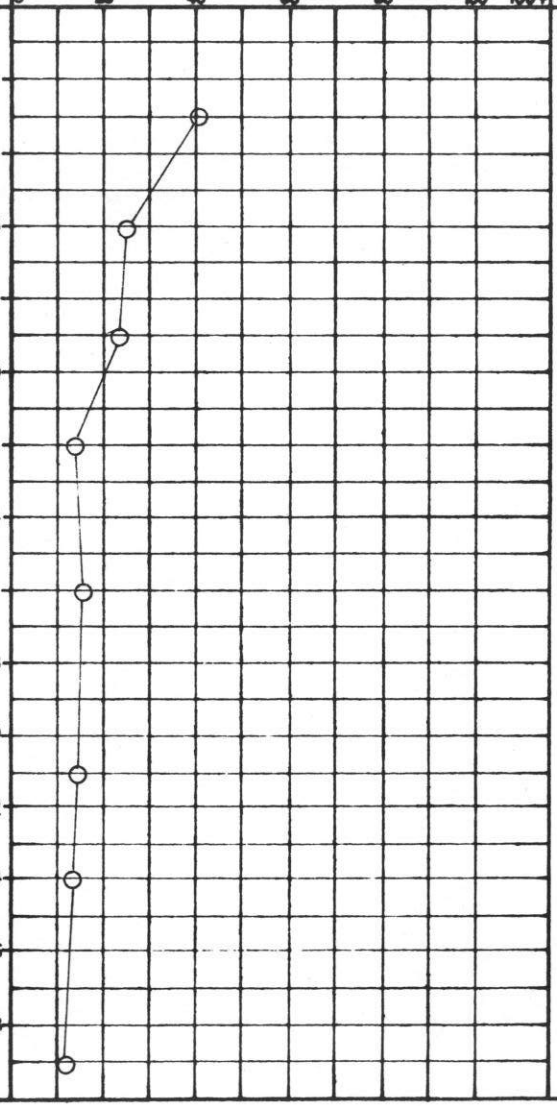
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 6" | ELEV.

TEST HOLE 867

MILE 780

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.2'	F	High Ice
2						CLAY -Silty Sandy Pebbles		
4								
6					CL	Low plastic		Vs
8								Low Ice
10								
12						Shale fragments		
14					CI	Med plastic		
16								Vx
18								
20								
22								
24								
26								
28								
						30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Sat.	
				Wet	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-14 | CHAINAGE. 2936+00 | OFFSET. ℄

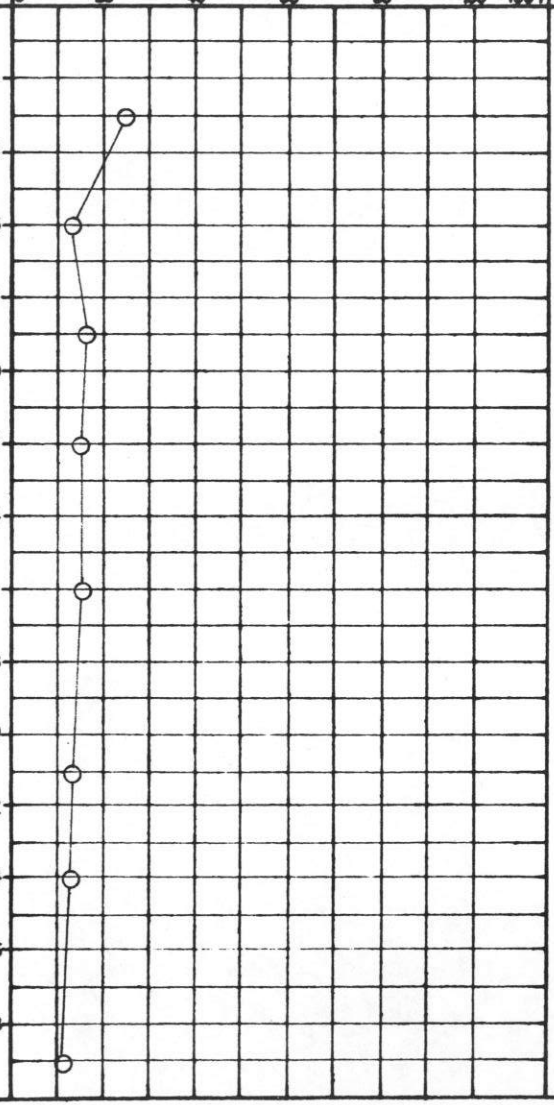
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 8" | ELEV.

TEST HOLE 868

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		Moderate
2						CLAY -Organics to 4' Silty Sandy Pebbles		Ice
4								
6					CL	Low-med plastic		Vc - Vr
8								Low
10								
12					CI		F	Ice
14								
16								Vx
18								
20								
22								
24								
26								
28						Shale-Siltstone fragments — 30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Wet	
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-14 | CHAINAGE. 2922+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 8" | ELEV.

TEST HOLE 869

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT		Vs
						1.4'		
2						CLAY		
4						-Silty		
						Sandy		
						Pebbles		
6						Low plastic		Low
					CL			
8								Ice
10						Shale & Sandstone		
						Fragments	F	
12								
14								Vx
16								
18								
20								
22								
24								
					CI	Med plastic		
26								
28								
						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2	-49-	44	7		Wet	
6	-56-	37	7		Wet	
8	-66-	30	4		Moist	
12	-70-	25	5		Moist	
16	-69-	28	3		Moist	
20	-63-	34	3		Damp	
24	-70-	25	5		Damp	
28	-80-	28	2		Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 10/3/74	AIRPHOTO NO. A 23337-14	CHAINAGE. 2913+00	OFFSET. ℄	TEST HOLE	870
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 6"	ELEV.	MILE	779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1.2'		Moderate Ice					Wet	
2						CLAY -Organics to 4' Silty Sandy Pebbles								
4														
6								Vc - Vr					Wet	
8						Low-med plastic								
10					CL		F	Low					Damp	
12					CI								Damp	
14								Ice						
16													Damp	
18								Vx						
20						Siltstone frags.								
22													Damp	
24													Damp	Hole in Bag
26														
28														
						30'							Damp	

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

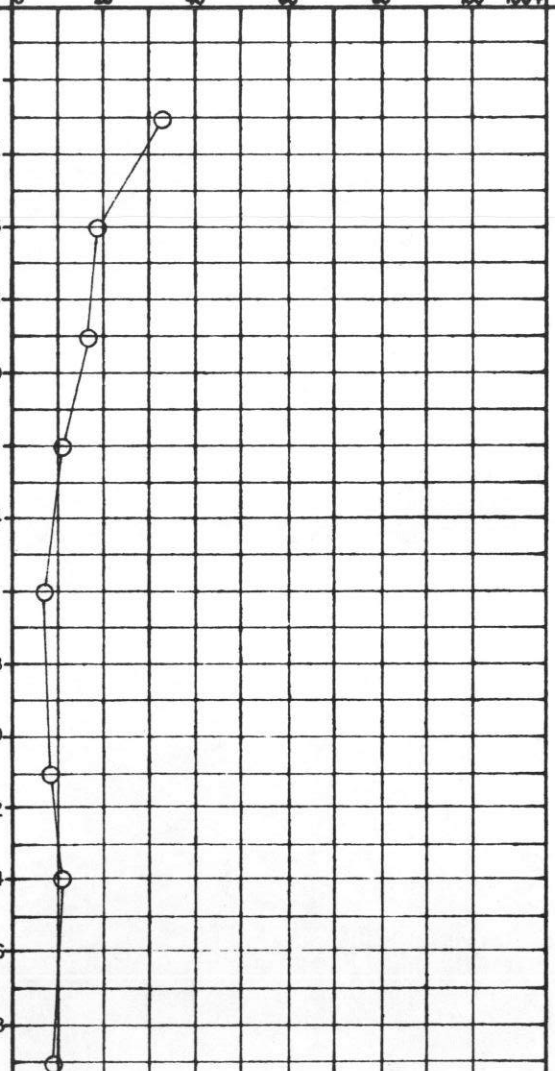
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 10/3/74	AIRPHOTO NO. A 23337-14	CHAINAGE. 2900+00	OFFSET. ℄	TEST HOLE 871
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE	ELEV.	MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High Ice
1.3'								
2					CL	CLAY -Silty Sandy Pebbles Low plastic	F	Vs
4								Low Ice
6								
8								
10								Vx
12						Shale & Siltstone Fragments		
14								
14'								
16						SHALE-SILTSTONE -Soft		Frozen
18								Nbn
20								
22								
24								
26								
28								
30'								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Free Water
				Wet
				Damp
				Damp
				Damp
				Damp
				Humid
				Humid

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-14 | CHAINAGE. 2892+00 | OFFSET. ℄

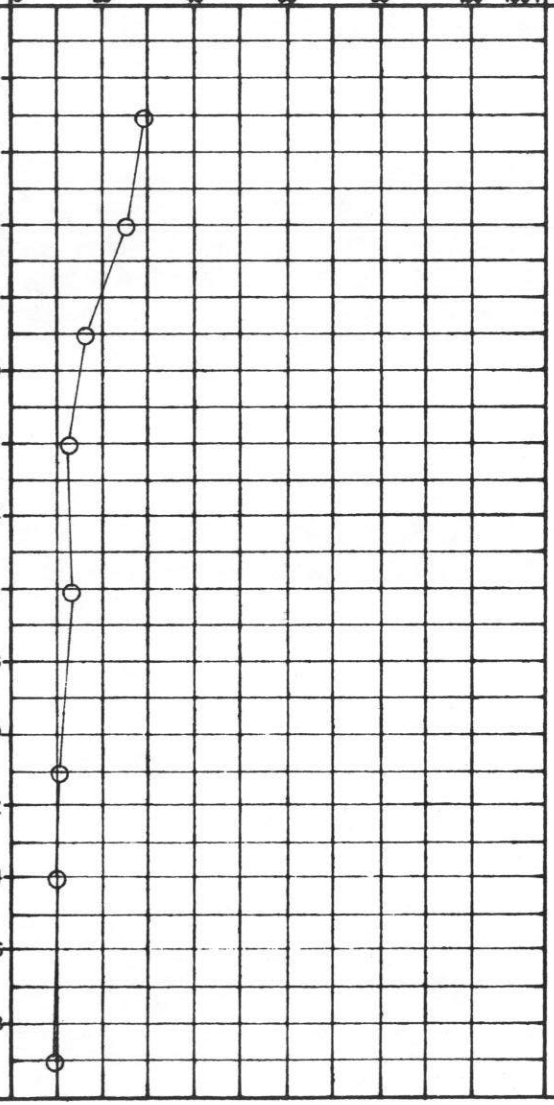
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE 8" MAX. | ELEV.

TEST HOLE 872

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High Ice
1'								
2					CL	CLAY -Silty Sandy Pebbles	F	
4								
6						Low plastic		Vs
8								
10								Low Ice
12								
14								
16								Vx
18								
18'								
20						SHALE-SILTSTONE -Med hard - hard		Frozen Nbn
22								
24						Soft-med-hard		
26								
28								
30'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Sat.	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-16 | CHAINAGE. 2884+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 9" | ELEV.

TEST HOLE 873

MILE 778

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .7'		Moderate
2						CLAY -Sandy Silty Pebbles Low-med plastic		Ice
4								
6								Vc - Vr
8					CL			
10					CI		F	
12								Low
14								Ice
16								
18								
20								Vx
22						Shale & Siltstone Fragments		
24								
26								
28						28'		
						SHALE-SILTSTONE -Soft		
						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Wet
				Moist
				Damp
				Damp
				Damp
				Damp
				Damp

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. A 23337-16 | CHAINAGE. 2869+00 | OFFSET. ℄

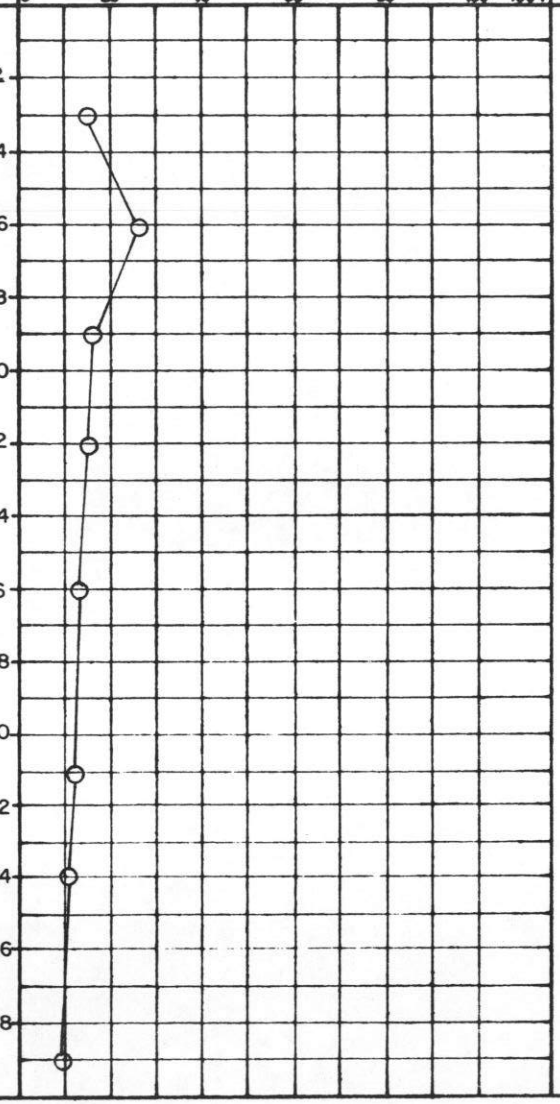
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 6" | ELEV.

TEST HOLE 874

MILE 778

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .9'		High
2						CLAY		Ice
4						-Sandy		
6						Silty		Vs
8					CL	Pebbles		
10						Low plastic		
12							F	Low
14								Ice
16								
18								Vx
20								
22						23'		
24						SHALE		
26						-Soft		
28						Sand Lenses		
						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Sat.
				Sat.
				Damp
				Damp
				Damp
				Damp
				Damp
				Damp

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

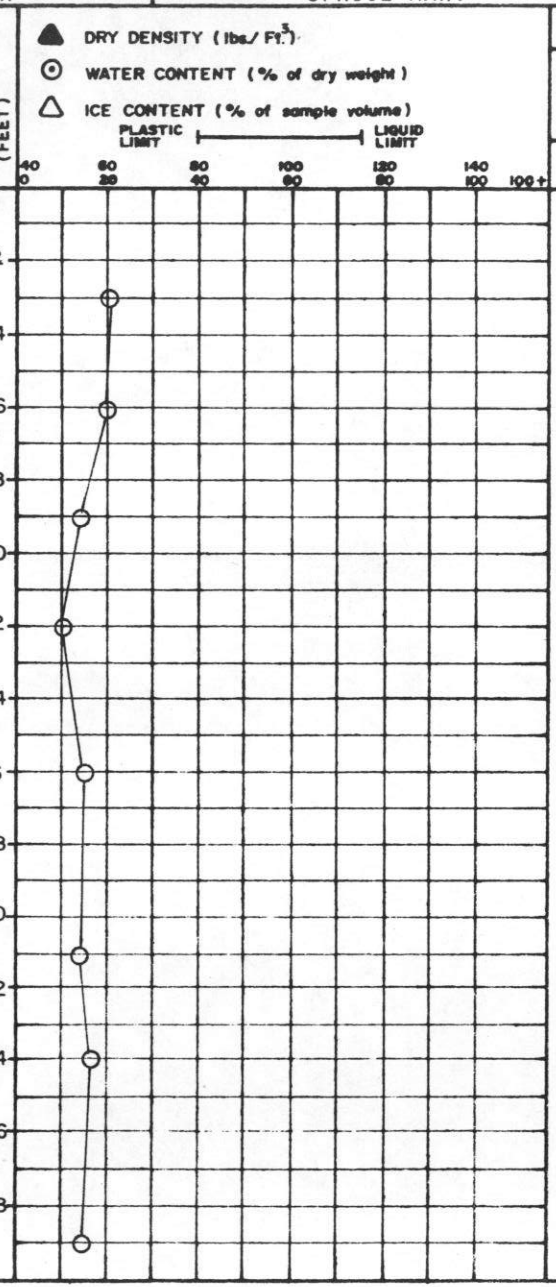
FIELD ENGN. BURGRESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. A 23337-16 | CHAINAGE. 2854+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. | ELEV.

TEST HOLE 875

MILE 778

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .7'		High Ice
2						CLAY -Sandy Silty Pebbles		Vs
4								
6								Low
8					CL	Low plastic		
10					CI	Med plastic		Ice
12							F	
14								
16								Vx
18								
20								
22								
24								
26								
28						30'		



GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Sat.	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENGN. BURGRESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. A 23337-16 | CHAINAGE. 2847+00 | OFFSET. ℄

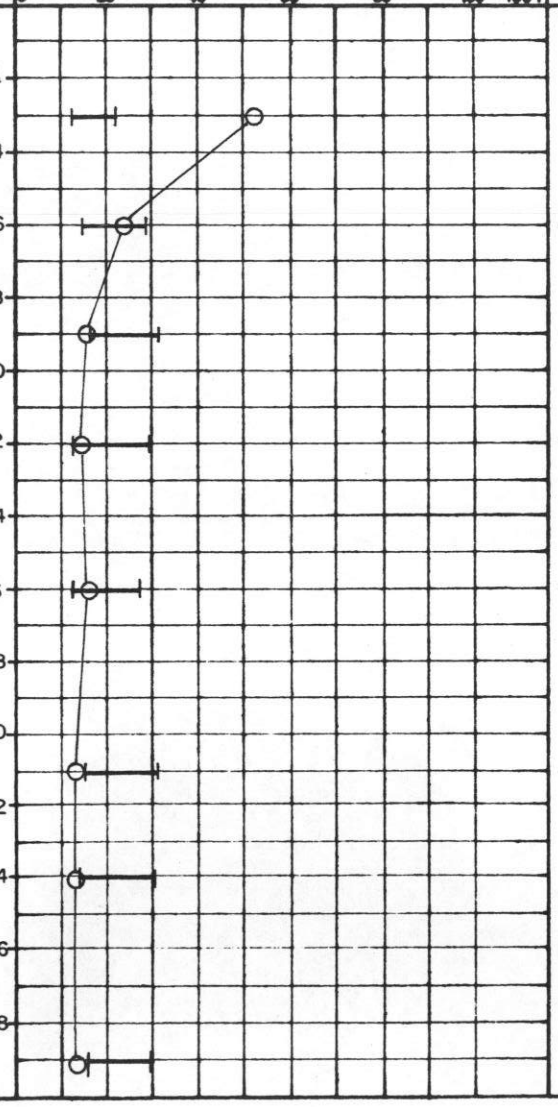
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 12" | ELEV.

TEST HOLE 876

MILE 778

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .6'		High Ice Vs
2						CLAY -Silty Sandy Pebbles		
4								Moderate Ice Vc - Vr
6					CL	Low-med plastic		
8								
10					CI		F	Low
12								Ice
14								
16								
18								Vx
20								
22								
24								
26								
28								
						30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
-60-		36	4	Free Water	
-76-		23	1	Wet	
-76-		20	4	Damp	
-79-		21	0	Damp	
-69-		30	1	Moist	
-76-		23	1	Damp	
-78-		21	1	Damp	
-73-		24	3	Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 11/3/74	AIRPHOTO NO. A 23337-16	CHAINAGE. 2835+00	OFFSET. ℄	TEST HOLE 877
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 9"	ELEV.	MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		Moderate Ice
2						CLAY -Silty Sandy Pebbles Low-med plastic		Vc - Vr
4								
6								
8					CL			Low
10					CI		F	
12								Ice
14								
16								Vx
18								
20								
22								
24								
26								
28						30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. A 23337-16 | CHAINAGE. 2820+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 11" | ELEV.

TEST HOLE 878

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1.2'		Vs
2						CLAY		
4						-Silty Sandy Pebbles		Low
6								Ice
8						Low-med plastic		
10					CL			
12					CI		F	Vx
14								
16								
18								
20								
22								
24								
26								
28								
						30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160	180+
2										
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26										
28										

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. A 23337-18 | CHAINAGE. 2795+00 | OFFSET. ℄

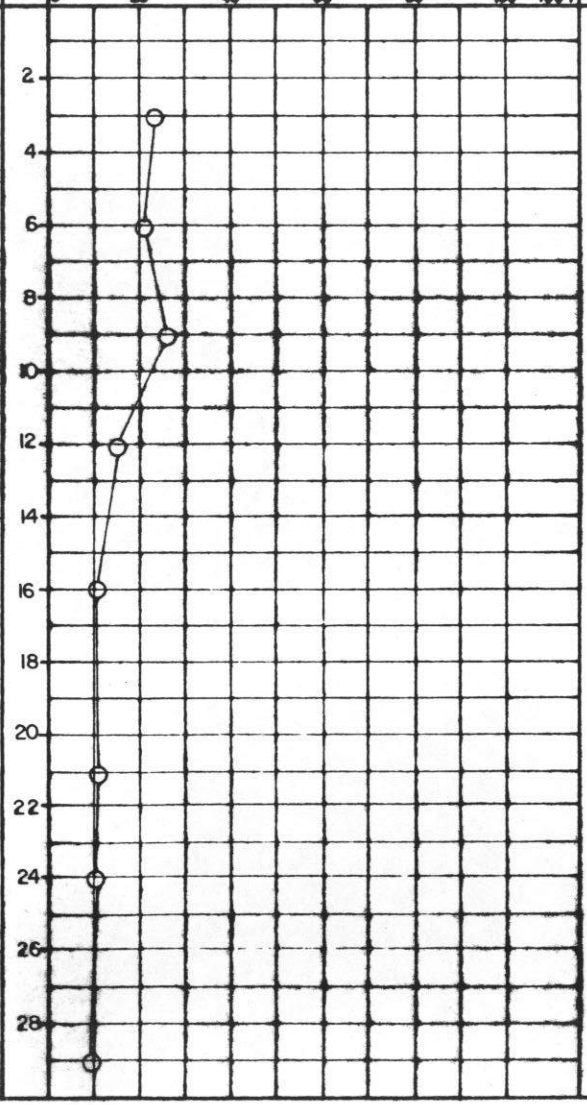
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 8" | ELEV.

TEST HOLE 880

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2						CLAY		Moderate
4						-Silty		
6						Sandy		Ice
8					CI	Pebbles		Vc - Vr
10						Med plastic	F	
12						Shale fragments		Low
14						— 14'		Ice
16						SHALE		Vx
18						-Soft		Frozen
20								
22								Nbn
24								
26								
28						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Moist	
				Wet	
				Damp	
				Humid	
				Humid	
				Humid	
				Humid	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 125

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 4"								
2					CL	Boulders @ 1' Clay-Sandy Silty Pebbles Low Plastic		Low Ice					Damp	
4						4.5'								
6						Gravel-Sand-Clay Mix.		Content					Moist	
8						Gravel-Sandy	F						Moist	
10													Moist	
12						Gravel-Sand-Clay Mix								
14					GC								Moist	
16								VX						
18														
20													Moist	
22													Moist	
24														
26						25'								
28						BOTTOM OF HOLE 25'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160+

DS-14-5-74 b

BORROW PIT 125

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

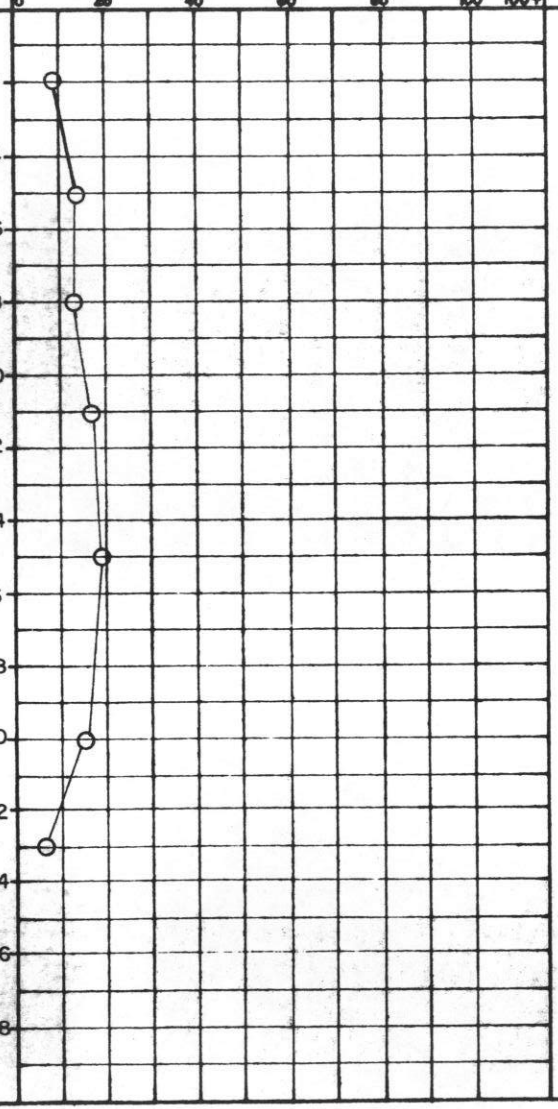
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT .5							
2						Clay-Silty Sandy Gravelly		VX					Damp
4					CL	Low-Med. Plastic		Low to					Moist
6								Moderate					
8					Cl			Ice					Moist
10													
12						Pebbles	F	Content					Moist
14													Damp
16								Vc-Vr					
18													
20													Damp
22													Damp
24					GC	Gravel-Clay-Sand Mix 25'							
26						BOTTOM OF HOLE 25'							
28													



DS-14-5-74 b

BORROW PIT 125

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 3/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .4'							Damp	
4					CL	Clay-Silty Sandy Gravelly Low-Med. Plastic		Low Ice					Damp	
8													Moist	
12					Cl		F	Content					Moist	
16														
20								VX					Moist	
24						Pebbles							Moist	
28														
32					CL	Clay-Silty Sandy		VX Low to Moderate Ice Content					Damp	
36						35'							Moist	
40					SC	Sand-Gravelly Clayey								
44					Cl	Clay-Silty Sandy 40							Damp	
48						BOTTOM OF HOLE 40'								
52														
56														

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

DS-14-5-74 a

BORROW PIT 126

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE. 3574+00	OFFSET.	TEST HOLE 1
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. POOR	VEGETATION. WILLOW - BIRCH	ELEV.	MILE 792

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2					GC	GRAVEL-CLAY-SAND MIXTURE		
4						— 4'		Low
6						CLAY -Silty Sandy Pebbles		Ice
8					CL	Low-med. plastic		
10						Gravelly		
12							F	Content
14					CI	Pebbles		
16								Vx
18								
20						Gravelly		
22								
24								
26								
28						— 29'		

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4						
6					Moist	
8					Moist	
10						
12					Moist	
14					Moist	
16						
18						
20					Moist	
22						
24						
26					Damp	
28					Damp	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 126

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE. 3574+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE-BIRCH-WILLOWS	ELEV.

TEST HOLE 2

MILE 792

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					CL	CLAY -Gravelly Silty, sandy Low plastic — 4'		Nil
4								Ice
6					GP	GRAVEL -Sandy		
8								Nbs
10								Low Ice Vx
12					GC	Clayey — 14'		
14						BOTTOM OF HOLE - 14' Hole Caving In		
16								
18								
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Damp	
4					Damp	
8					Damp	
12					Wet	
14					Wet	

DS-14-5-74 b

BORROW PIT 126

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE. 3574+00	OFFSET.	TEST HOLE 3
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. RIDGE	VEGETATION. SPRUCE	ELEV.	MILE 792

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT — 2"								
2					GW	GRAVEL -Sandy		Nil	-3-		22	75	Damp	
4						— 4'		Ice						
6					SW	SAND -Gravelly							Damp	
8								Content	-11-		83	6	Damp	
10					SW	Med. coarse pebbles	F							
12								Nbn						
14						— 14'								
16						BOTTOM OF HOLE - 14'								
18						Hole Caving In Sand Returns only from 6'-9'								
20														
22														
24														
26														
28														

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

DS-14-5-74 b

BORROW PIT 126

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE. 3574+00	OFFSET.	TEST HOLE 4
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. RIDGE	VEGETATION. BIRCH	ELEV.	MILE 792

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 2"		
2					GP	GRAVEL -Sandy		Nil Ice Content Nbn
14					GC	Clayey Sandy — 14'	F	
						BOTTOM OF HOLE - 14' Hole Caving In		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	
				Damp	
				Moist	
				Damp	

DS-14-5-74 b

BORROW PIT 126

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

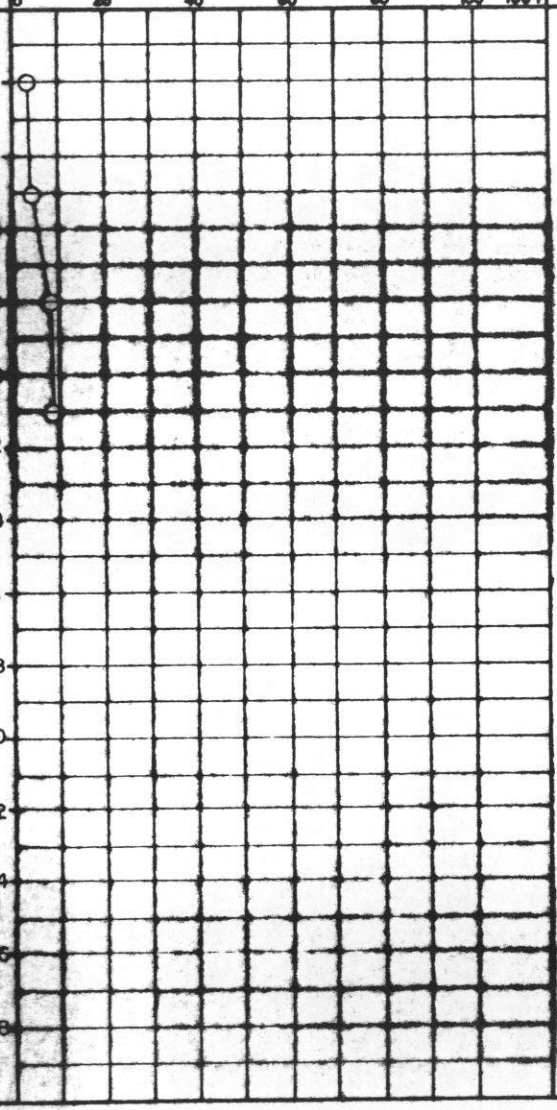
FIELD ENG. N. BURGESS	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE. 3574+00	OFFSET.
TECH.	RIG.	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE 792

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 4"		
2					SP	SAND -Gravelly Med. coarse		Nil To Mdm Low Ice Content Vx
4								
6								
8					SC	Clayey fine-coarse		
10						— 10'		
12					CL	CLAY -Silty Sandy Pebbles Low plastic		
14						— 14'		
16						BOTTOM OF HOLE - 14'		
18								
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	
				Moist	
				Damp	

DS-14-5-74 b

BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 3/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. | RIG. | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE: A1

MILE:

REMARKS:

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					OH	Peat ORGANIC 2'		Vc - Vr Moderate					Wet
4						Clay - Silty - Sandy		To					
6					CL	- Pebbles Low-Med. Plastic		Low					Moist
8					Cl	Gravelly 8' - 15'		Ice					Moist
10							F						
12													Moist
14								Content					Damp
16						15' Gravel - Sandy		VX					
18					Gc	- Clayey							
20													
22													
24						BOTTOM OF HOLE 30'							
26													
28													

B074

DS-14-5-74 b

BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE A1
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT		Vs					Free Water	By Hole 795
4						4' Gravel - Sandy - Org. to 6'		High					Free Water	
6								Ice						
8						Clayey Sandy	F	VX					Sat.	
10								Low To					Wet	
12					Gc	Sandy								
14						Sandy Clayey		Moderate					Wet	
16								Ice						
18														
20								Vc - Vr						
22														
24														
26														
28						BOTTOM OF HOLE 30'								

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8074

DS-14-5-74 b

BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 3/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE A2

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'				
2						Clay - Sandy			Moist	
4						- Silty		Low	Moist	
6					CL	- Pebbles Low-Med. Plastic		Ice		
8							F		Damp	
10					Cl	Gravelly from 11'		Content	Damp	
12										
14								VX	Damp	
16										
18										
20										
22										
24										
26										
28						BOTTOM OF HOLE 30'				

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

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BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE A3

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 1'									
2						Clay			2					Wet	
						- Sandy									
4						- Silty		Low	4					Moist	
						- Pebbles									
6					CL	Low-Med. Plastic		Ice	6						
8							F		8					Moist	
						Gravelly									
10						from 11'		Content	10					Moist	
12					Cl				12						
14									14					Moist	
16								VX	16						
18									18						
20									20						
22									22						
24									24						
26									26						
28						BOTTOM OF HOLE 30'			28						

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 60 20 80 40 100 60 120 80 140 100 100+

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BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 3/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE A4

MILE

REMARKS

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'							
2						Clay - Silty							Moist
4						- Sandy		Low					Moist
6						- Pebbles		Ice					
8					CL	Gravelly from 8'							Moist
10						Low-Med. Plastic		Content					Moist
12					Cl		F						Damp
14													
16								VX					
18													
20													
22													
24													
26													
28						BOTTOM OF HOLE 30'							

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BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 3/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE A5

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						Clay - Silty Sandy Pebbles		High Ice					Sat.	
4													Free Water	
6								Vs						
8						Gravelly		Low Ice					Moist	
10													Moist	
12						Pebbles								
14								Content					Moist	
16														
18								VX						
20														
22														
24						Gravelly								
26														
28						BOTTOM OF HOLE 30'								

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BORROW PIT C.N.T.

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE A6
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2					CL	Clay - Silty Sandy Low-Med. Plastic		Low Ice
4								
6								
8					Cl	Pebbles		Content
10						Gravelly	F	VX
12						Pebbles - Gravelly		
14						To 30'		
16								
18								
20								
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	

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BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE A7

MILE

REMARKS

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'		Vc - Vr					
2						Clay - Silty		Moderate					Wet
4						- Sandy		To					
6						- Pebbles		Low					Moist
8					CL	Low-Med. Plastic		Ice					
10						Gravelly							Wet
12						Pebbles	F	Content					
14					Cl								Wet
16						Gravelly to 30'		VX					Moist
18													
20													
22													
24													
26													
28						BOTTOM OF HOLE 30'							

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BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

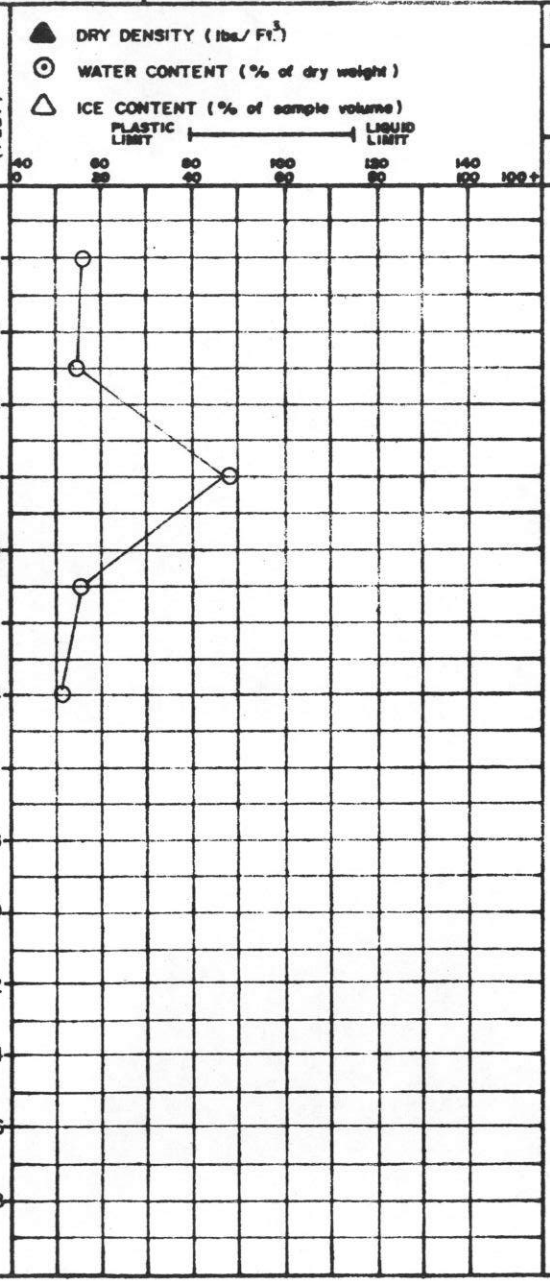
FIELD ENG. D. COOK	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE A8

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2						Clay - Silty - Sandy		
						Low-Med. Plastic		Low
4					CL			Ice
						Pebbles		
6								VX
8								High Ice
10								Vs
12							F	
						Gravelly		
14					Cl			Low
						Pebbles to 30'		Ice
16								
18								Content
20								
22								VX
24								
26								
28								
						BOTTOM OF HOLE 30'		



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Moist
				Free Water
				Moist
				Moist

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BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 3/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE A9

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						Clay - Silty		High
						- Sandy		Ice
4						- Pebbles		Vs
					CL	Low-Med. Plastic		
6								
8						Gravelly		
10								Low
						Pebbles	F	
12								Ice
14					Cl			
						Gravelly - Pebbles to 30'		
16								Content
18								VX
20								
22								
24								
26								
28								
						BOTTOM OF HOLE 30'		

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 120+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Free Water
				Wet
				Moist
				Moist
				Moist

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BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 3/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE A10

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1.5'		High
4						Clay - Silty Sandy		Ice
6						- Pebbles		
8						Gravelly		Vs
10							F	Low
12						Pebbles		Ice
14								
16								Content
18								
20						Gravelly to 30'		VX
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Free Water
				Sat.
				Wet
				Moist

REMARKS

B074

DS-14-5-74 b

BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 3/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE All

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						Clay - Silty		Moderate Ice
4						- Sandy - Pebbles Low-Med. Plastic		Vc - Vr
6								
8					CL	Gravelly to 30'		
10								
12					Cl			Low Ice
14								
16								Content
18								
20								VX
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Moist	
				Moist	
				Moist	
				Moist	

R074

DS-14-5-74 b

BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE A 12
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	REMARKS
					Pt	PEAT .5'								
2						Clay - Silty Sandy			Moist					
						- Pebbles								
						- Med. Plastic		Low						
4						Gravelly		Ice	Moist					
6														
8					Cl	Pebbles		Content	Moist					
10							F		Moist					
12								VX						
14						Gravelly to 30'			Moist					
16														
18														
20														
22														
24														
26														
28						BOTTOM OF HOLE 30'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. D. COOK	DATE DRILLED 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE A 13

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2					CL	Clay - Silty Sandy Pebbles		Low
4						4'		Ice
						Gravel - Clay - Sand Mix		
6					Gc			Content
8								
10						11'	F	
12						Clay - Silty Sandy Gravelly to 30' Med. Plastic		
14								VX
16					Cl			
18								
20						Boulders & Rocks 27' - 30'		
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL	RELATIVE THAWED MOISTURE CONTENT
	%	%	%	%	
2					Moist
4					Moist
6					
8					Moist
10					Moist
12					
14					Moist
16					
18					
20					
22					
24					
26					
28					

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BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE A 14
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

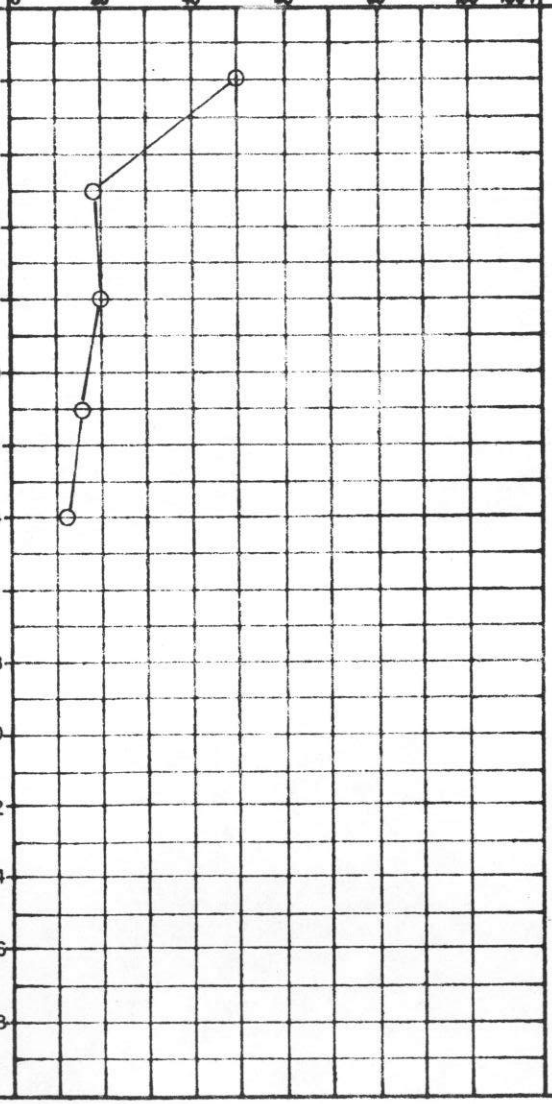
DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		High Ice Vs
					Gc	Gravel - Clayey		
4						4'		
						Clay - Sandy Silty .		Moderate
6						- Pebbles Med. Plastic		Vc - Vr
8						Gravelly to 30'	F	Ice
10								
12					Cl			Low
14								
16								Ice
18								VX
20								
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 160+



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Free Water	
				Wet	
				Wet	
				Moist	
				Moist	

R074

DS-14-5-74 b

BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

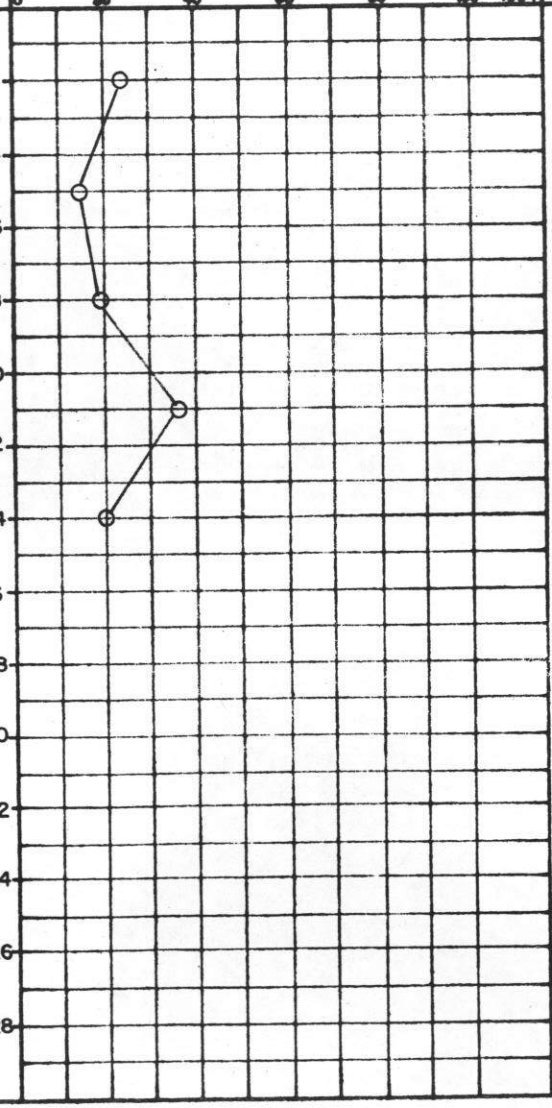
FIELD ENG. D. COOK	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE: A 15

MILE:

REMARKS:

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2						Clay - Silty		
						- Sandy		
4						- Gravelly		
					CL	Low-Med. Plastic		Moderate
6								
								Ice
8							F	
10						Pebbles - Gravelly		
					Cl	to 25'		Content
12								
14								Vc - Vr
16								
18								
20								
22								
24						Boulder @ 25'		
						BOTTOM OF HOLE 25'		
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Moist
				Wet
				Sat.
				Wet

B074

DS-14-5-74 b

BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE A 16

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Pt	PEAT							Moist
2						Clay - Sandy		Moderate					
4						- Silty							Wet
4						Few Pebbles							
6					CL	Low-Med. Plastic		Ice					Moist
8													
10					Cl		F	Content					Moist
12													Moist
14						Gravelly		Vc - Vr					
16													
18													
20													
22													
24													
26													
28						BOTTOM OF HOLE 30'							

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DS-14-5-74 b

BORROW PIT C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE A 17

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180 200+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'		Vc - Vr					
2						Clay - Silty		Moderate					Moist
4						- Sandy							Wet
6					CL	- Pebbles Low Plastic		To					Moist
8								Low					
10							F						Moist
12													
14						Pebbles - Gravelly		Ice					Moist
16								VX					
18								Content					
20													
22													
24													
26													
28													

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DS-14-5-74 b

BORROW PIT C.N.T.

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MACKENZIE HIGHWAY

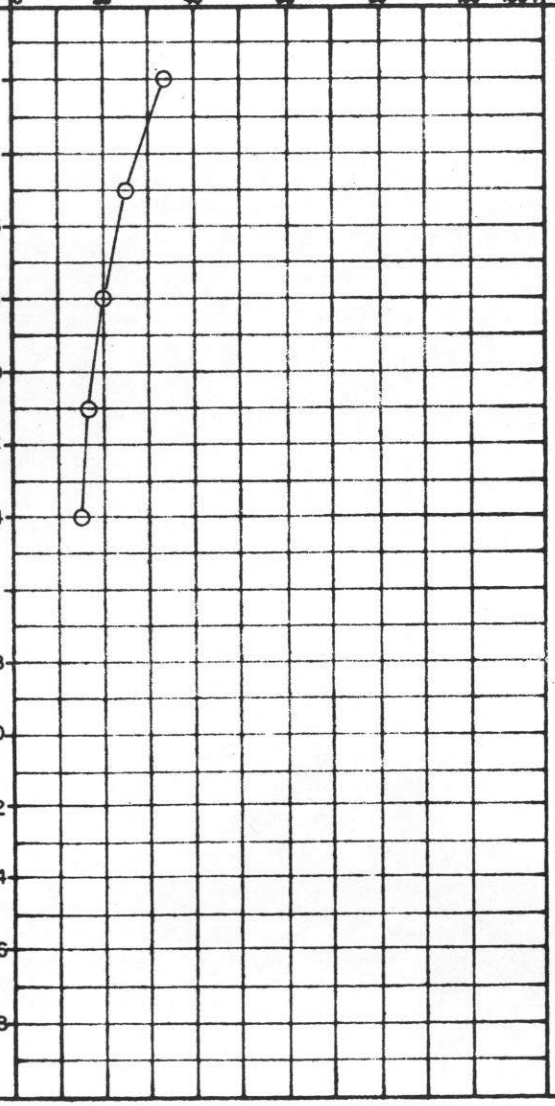
DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE A 18
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1.5'		Vs
						Clay - Sandy		High
4						- Silty		To
						Few Pebbles		
6					CL	Low-Med. Plastic		Moderate
8								
10					Cl			Ice
12								
14								Content
16								Vc - Vr
18						Gravelly		
20								
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Wet	
				Wet	
				Moist	
				Moist	

B074

DS-14-5-74 b

C.N.T. Line

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. N. of Seismic Line | TEST HOLE D-827A

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. On Ridge | VEGETATION. Spruce | ELEV. | MILE

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'								
2						Clay - Silty							Moist	
						- Sandy								
4						- Pebbles		Low						
					CL	Low-Med. Plastic							Damp	
6						Gravelly		Ice						
						Pebbles							Damp	
8														
							F	Content						
10					Cl								Damp	
12														
						Gravelly		VX					Damp	
14														
16														
18														
20														
22						Shale - Soft - Hard		Frozen							
24								Nbn						
26														
28						BOTTOM OF HOLE 29'							Damp	

B074

DS-14-5-74 b

C.N.T. Line

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE D-827 B

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. On Ridge | VEGETATION. Spruce | ELEV. | MILE

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 2'		VX					Moist	
2					CL	Clay - Silty		Low					Moist	
4						- Sandy		And						
6					Cl	- Pebbles 7'							Damp	
8					Gc	Gravel - Clayey - Sandy		Moderate					Damp	
10								Ice						
12						12'								
14					Cl	Clay - Silty - Sandy - Pebbles		Content					Damp	
16					Cl	Low-Med. Plastic		Vc - Vr						
18														
20														
22														
24						BOTTOM OF HOLE 25'							Damp	
26														
28														

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DS-14-5-74 b

C.N.T. Line

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Level | VEGETATION. Spruce | ELEV.

TEST HOLE D-827 C

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.5'	F	Vc - Vr
2						Clay - Silty		Moderate
4						- Sandy		KE
6						- Pebbles		
8					Cl	Med. Plastic		
10								
12								
14								Low
16								Ice
18								
20								Content
22								
24								VX
26								
28						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160+
0									
2	●								
4	⊙								
6									
8	⊙								
10									
12	⊙								
14	●								
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Wet
2					
4					Damp
6					
8					Moist
10					Damp
12					
14					Damp
16					
18					
20					
22					
24					
26					
28					Damp

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DS-14-5-74 b

C.N.T. Line

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair to W	VEGETATION. Spruce	ELEV.

TEST HOLE: D-837 D

MILE:

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT 1.5'		Vc - Vr					Moist	
					Cl OL	Clay - Silty Organic								
4						4'							Damp	
						Clay								
6						- Silty								
						- Sandy								
8						- Pebbles							Damp	
								Moderate						
10					CL	Low-Med. Plastic							Damp	
								Ice						
12					Cl									
14								Content					Damp	
16								To						
18														
20								Low						
								Ice						
22														
24								VX						
26								Low						
								Ice						
28						BOTTOM OF HOLE 29'							Damp	

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DS-14-5-74 b

C.N.T. Line

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Fair to W. | VEGETATION. SPRUCE | ELEV.

TEST HOLE D-827 E

MILE

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0–1					Pt	PEAT 1'								
1–8					CL	Clay - Silty - Sandy - Pebbles Low-Med. Plastic	F	Low Ice Content √x					Damp	
8–10					Cl								Damp	
10–12													Damp	
12–24													Damp	
24–28						Shale - Siltstone Blk Hard	F	Frozen Nbn					Humid	
28						BOTTOM OF HOLE 29'								

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C.N.T. Line

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Good | VEGETATION. Spruce | ELEV.

TEST HOLE D-827 F

MILE

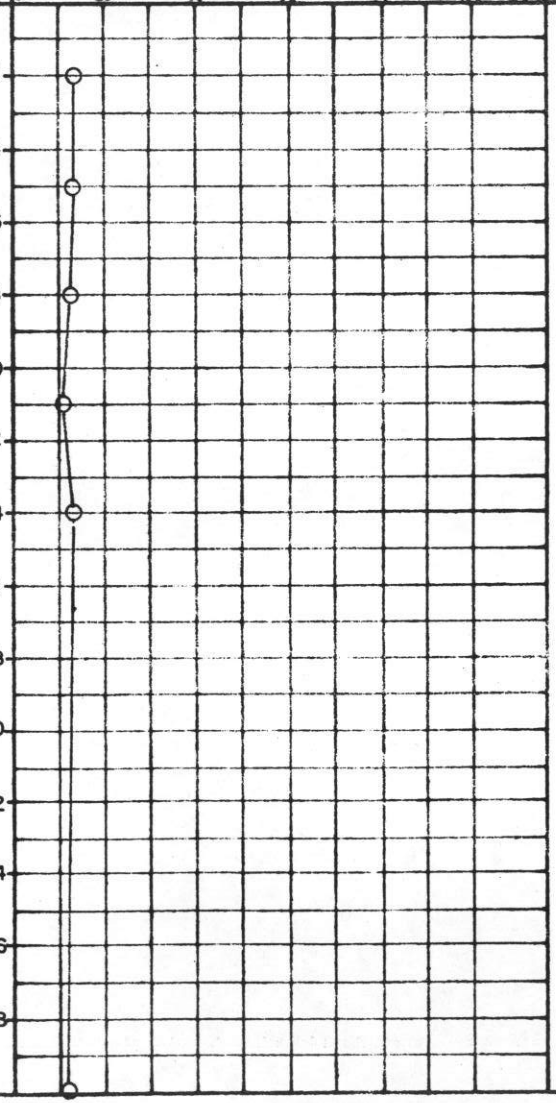
REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT 1'							
2						Clay		Low					Damp
4						- Silty							
6						- Sandy		Ice					Damp
8					Cl	- Pebbles Med. Plastic	F	Content					Damp
10													Damp
12													
14													Damp
16													
18								VX					
20													
22													
24													
26													
28						BOTTOM OF HOLE 29'							Damp

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+



B074

DS-14-5-74 b

C.N.T. Line

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG.	DATE DRILLED.	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH.	RIG.	SURFACE DRAINAGE. Slope to W.	VEGETATION. Spruce	ELEV.

TEST HOLE: D-827 G

MILE:

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'								
2						Clay							Damp	
4						- Silty								
6						- Sandy							Damp	
8						- Pebbles								
10					Cl	Med. Plastic	F	Low Ice Content					Damp	
12														
14								Vc					Damp	
16														
18														
20														
22														
24														
26														
28						BOTTOM OF HOLE 29'							Damp .	

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 100+

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DS-14-5-74 b

C.N.T. Line

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE. Slope to W.	VEGETATION. Spruce	ELEV.

TEST HOLE D-827 H

MILE

REMARKS

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT 1'							
2						Clay							Damp
4						- Silty		Low					Moist
6						- Sandy - Pebbles Med. Plastic		Ice					Moist
8					Cl								
10							F	Content					Damp
12													
14								VX					Damp
16													
18													
20													
22													
24													
26						26'							
						Shale - Siltstone		Frozen					
28						Black Hard		Nbn					Humid
						29'							
						BOTTOM OF HOLE 29'							

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DS-14-5-74 b

C.N.T.

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE | OFFSET.

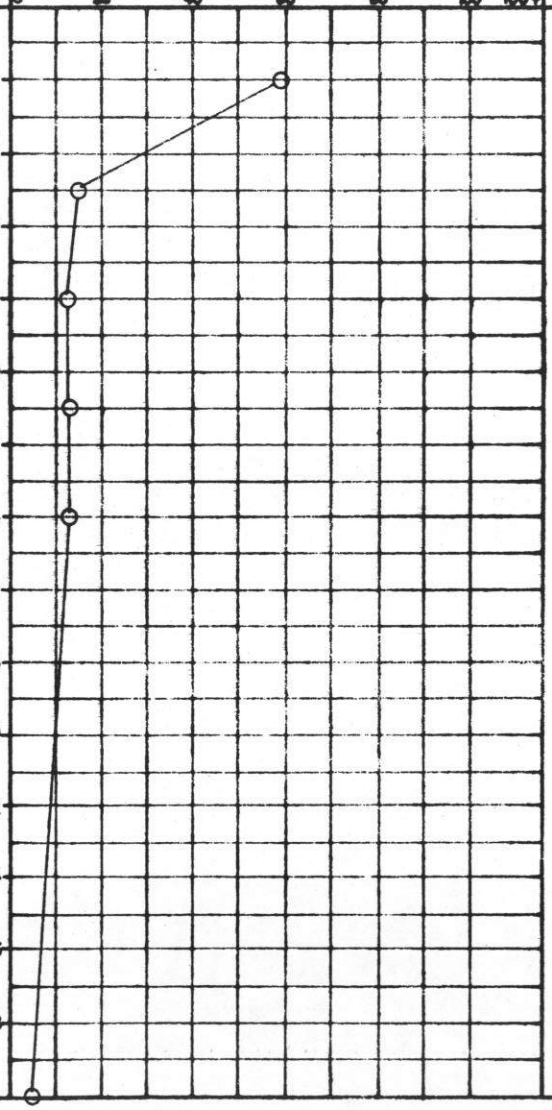
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to W. | VEGETATION. Spruce | ELEV.

TEST HOLE D-827 J

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 3'	F	High Ice Vs
4					Cl	Clay - Silty - Sandy - Pebbles		
6						Med. Plastic		Low
8						Gravelly		
10								Ice
12								
14								Content
16								
18								VX
20								
22								
24								
26						26'		
28						Shale - Siltstone Black Hard		Frozen
						29'		Nbn
						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Humid	

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DS-14-5-74 b

C.N.T. Line

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE D-827 I
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE. Slope to W.	VEGETATION. Spruce	ELEV.	MILE

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'								
2						Clay		Moderate Ice Vc - Vr					Wet	
4						- Silty							Moist	
6						- Sandy								
8						- Pebbles							Moist	
10					Cl	Med. Plastic		Low Ice						
12						Gravelly							Damp	
14								Content					Damp	
16						Pebbles - Gravelly								
18								VX						
20														
22														
24														
26														
28						Gravelly							Damp	
						BOTTOM OF HOLE 29'								

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE. Slope to W.	VEGETATION. Spruce	ELEV.

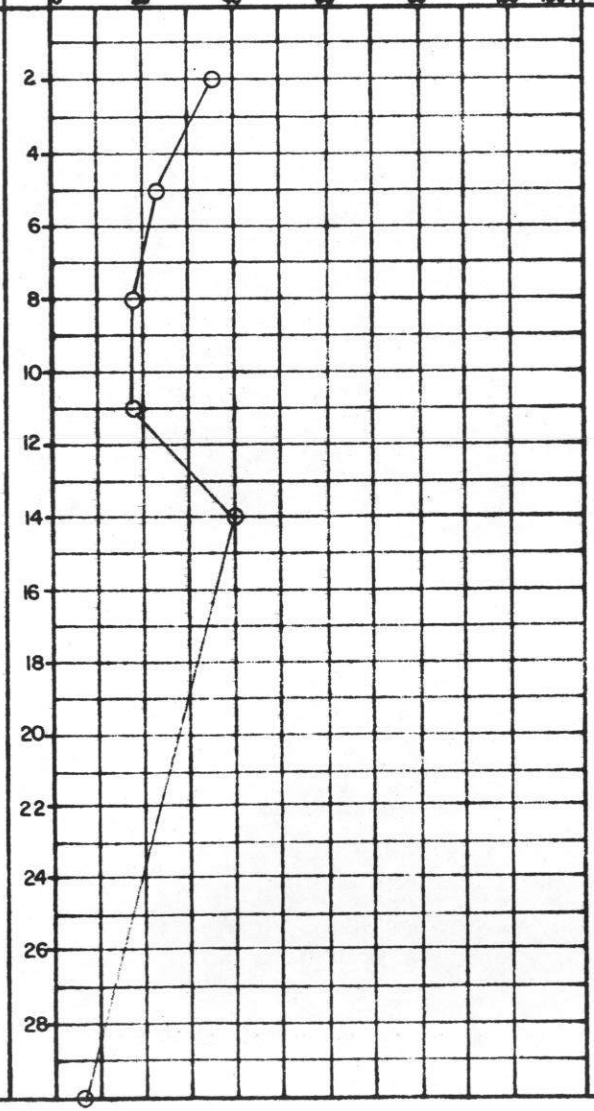
TEST HOLE D-827 K

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2						Clay		Moderate
						- Silty		
						- Sandy		
4						- Pebbles		
6						Med. Plastic		
8					Cl		F	Ice
10						Gravelly		
12								
14						Pebbles		
16								Content
18								
20								Vc - Vr
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Moist
4					Moist
6					Sat.
8					
10					Wet
12					
14					Moist
16					
18					
20					
22					
24					
26					
28					Damp

8074

DS-14-5-74 b

BORROW PIT 127

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 12"	ELEV.

TEST HOLE 1

MILE 796

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						.4'		
2					SM	SAND -Silty Med - coarse Pebbles		Low To Nil
4								
						5'		
6						GRAVEL-SAND MIXTURE	F	Ice Content
8					GP			
10								Vx
12								Nbn
14								
						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								
26								
28								

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 127

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. MCINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 10"	ELEV.

TEST HOLE 2

MILE 796

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .6'								
2						SAND -Med-coarse Gravelly		Nil					Damp	
4													Damp	
6						Fine - medium Gravelly	F	Ice Content						
8													Damp	
10								Nbn					Damp	
12														
14						15'								
16						BOTTOM OF HOLE - 15'								
18						Hole Caving In								
20														
22														
24														
26														
28														

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

DS-14-5-74 b

BORROW PIT 127

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 3/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 13"	ELEV.

TEST HOLE 3

MILE 796

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						SAND -Med - coarse Gravelly		Nil					Damp	
4								Ice					Damp	
6								Content						
8						Pebbles							Damp	
10							F						Damp	
12								Nbn						
14						15'								
16						BOTTOM OF HOLE - 15'								
18						Hole Caving In								
20														
22														
24														
26														
28														

DS-14-5-74 b

BORROW PIT 127

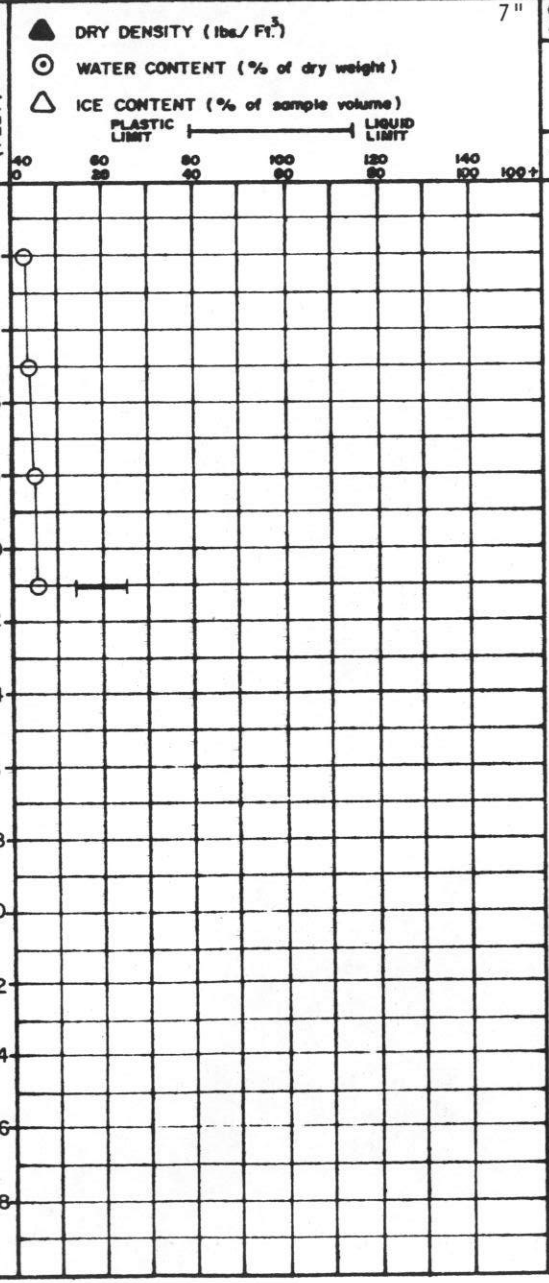
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 4
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE & BIRCH MAX.	ELEV.	MILE 796

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .8'		
2					GP	GRAVEL-SAND MIXTURE		Nil
4								Ice
6					SP		F	Content
8						8'		
10					SC	SAND -Med - coarse Pebbles Clayey Gravelly		Nbn
12								
14						15'		
16						BOTTOM OF HOLE - 15' Hole Caving In		
18								
20								
22								
24								
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 127

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 5
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE & BIRCH MAX. 6"	ELEV.	MILE 796

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT	F	High Ice Content Vs
4'					CL	CLAY -Silty Sandy Pebbles		
7'					ML	SILT -Sandy Clayey		
15'					CI CH	CLAY -Silty Med-high plastic		
17'					SM	SAND -Silty Fine		
					SC	Clayey		
30'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

188

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT
Free Water
Free Water
Sat.
Free Water
Wet
Free Water
Sat.
Wet

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 127

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH.	RIG.	SURFACE DRAINAGE.	VEGETATION.	ELEV.

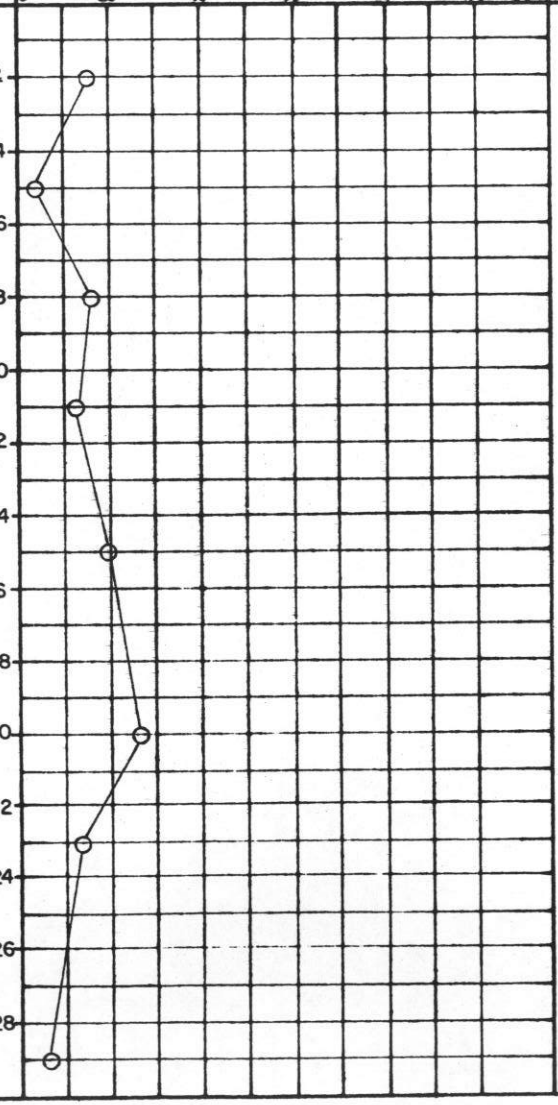
TEST HOLE 6

MILE 796

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					OH	ORGANIC — 1½'		
2					SM	SAND -Silty Fine		Moderate To High Ice Content
12					SP	Pebbles		
20						Medium		
22					SP	Med - coarse Gravelly		
28						— 28'		
					GW	GRAVEL -Sandy — 30'		

BOTTOM OF HOLE - 30'

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	

REMARKS

FREE WATER

DS-14-5-74 b

BORROW PIT 128

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

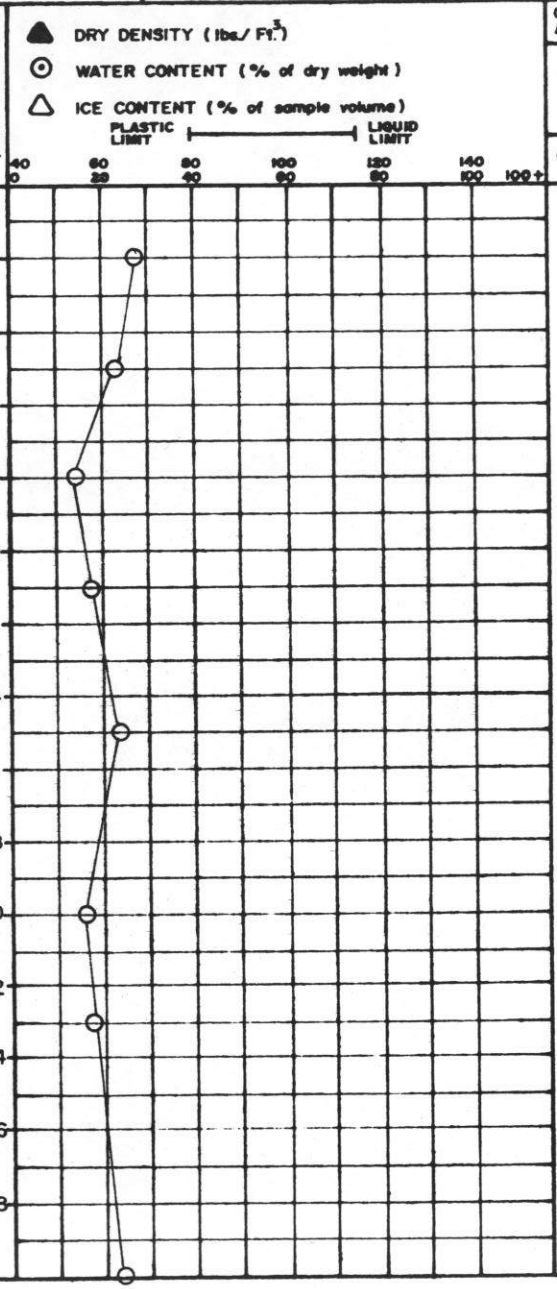
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. POOR | VEGETATION. SPRUCE MAX.: 4" | ELEV.

TEST HOLE 1

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT		
2					Sm	Sand-Silty Fine		Moderate
4							F	Vc-Vr
6								Ice
8					SW	Med.-Coarse Gravelly		
10								
12					SM	Pebbles Silty-Coarse		
14								High Ice
16					SP	Medium		VS
18								
20								
22					SW	Med.-Coarse Pebbles		
24						Gravelly		
26								
28					SM	Silty Fine-Pebbles		
						30'		

BOTTOM OF HOLE 30'



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Wet	
				Sat.	
				Free Water	
				Free Water	
				Free Water	
				Free Water	

DS-14-5-74 b

BORROW PIT 128

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. POOR | VEGETATION. SPRUCE MAX.: 4" | ELEV.

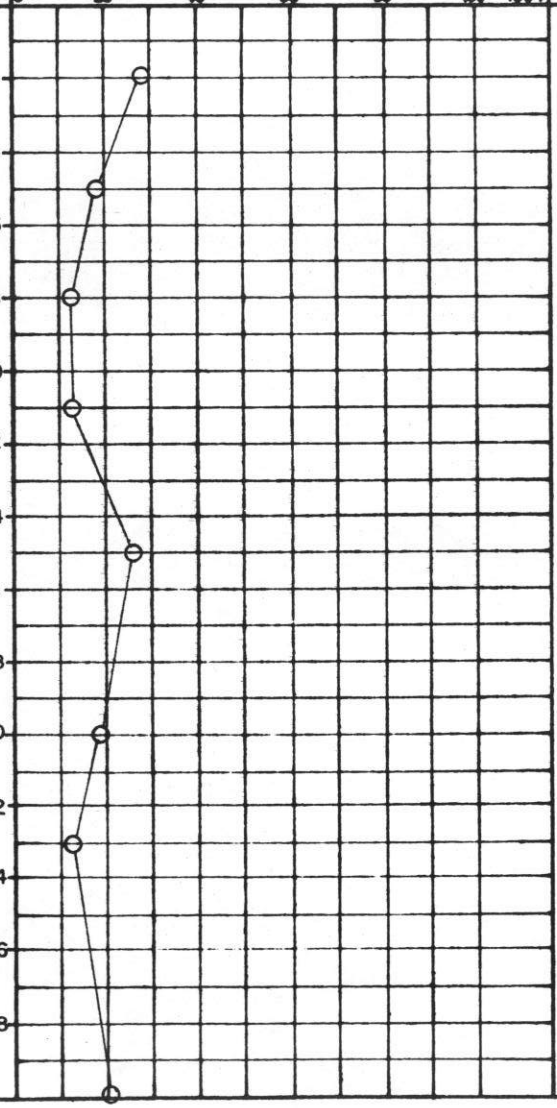
TEST HOLE 2

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2					CL	Clay-Silty Low Plastic		Vc-Vr
4						4'		Moderate
					SM	Sand-Silty Fine		Ice
6								
8						Gravelly	F	
					SC	Med.-Coarse Clayey 9'		High Ice
10					GP	Gravel-Sandy		
12								Content
14								VS
						15'		
16					SM	Sand-Silty Fine		
18								
20						Pebbles		
22								
						23'		
24					GP	Gravel-Silty Sandy		
26								
28						28'		
					ML	Silt-Sandy Pebbles		
						30'		

BOTTOM OF HOLE 30'

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Moist	
				Sat.	
				Sat.	
				Free Water	
				Sat.	
				Free Water	
				Sat.	

DS-14-5-74 b

BORROW PIT 128

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. POOR	VEGETATION. SPRUCE MAX.: 4"	ELEV.

TEST HOLE 3

MILE

REMARKS

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					OH	Organic 1.2'		High to Vc-Vr Moderate Ice Content VS High					Moist
2					OL ML	Silt-Clayey Sandy Organic 4'							Moist
4					SM	Sand-Silty Fine 8'	F						Sat.
8					GP	Gravel-Sand Mix. 11'							Sat.
10					GW	Sand-Med.-Coarse Gravelly							Sat.
20					SM ML	Silt-Sand Mix.							Free Water
26					SM	Sand-Silty Fine 30'							Free Water

BOTTOM OF HOLE 30'

DS-14-5-74 b

BORROW PIT 128

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. POOR | VEGETATION. SPRUCE & BIRCH 3" | ELEV.

TEST HOLE 4

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT			Sat.
2					SM	Sand -Silty			
4						Fine		High Ice	Sat.
6									
8									Sat.
10					SW	Med.-Coarse	F	Content	Free Water
12						Gravelly		VS	
14									Sat.
16					SP	Fine-Med.			
18									
20									Free Water
22					SM	Silty Fine			Free Water
24									
26									
28						28'			
					ML	Silt-Sandy			Free Water
						30'			

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

REMARKS

BOTTOM OF HOLE 30'

DS-14-5-74 b

BORROW PIT 128

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

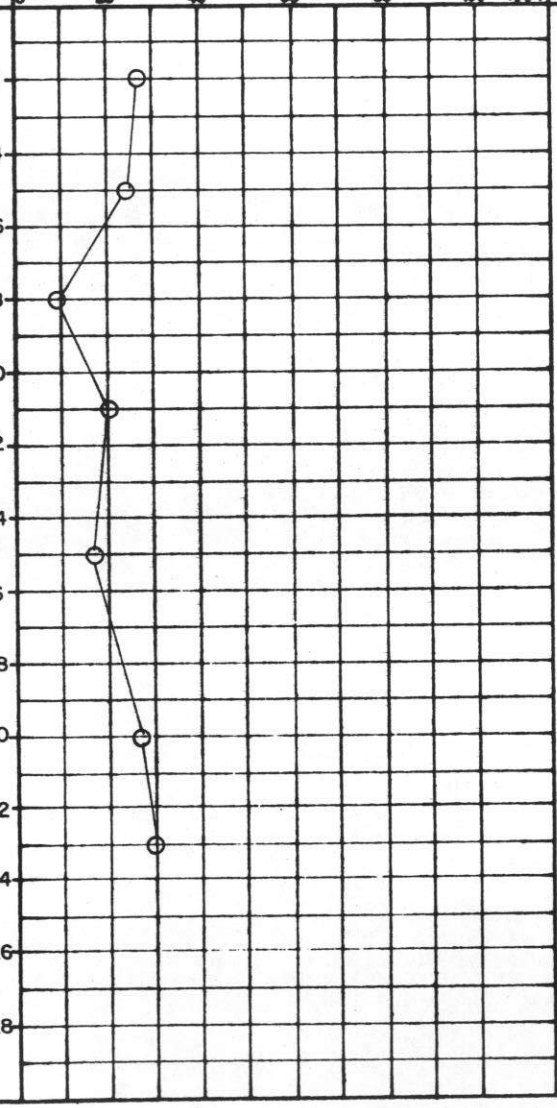
FIELD ENG. N. BURGESS	DATE DRILLED. 1/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0-2					Pt	PEAT 2'							Moist
2-4					CL	Clay-Silty 4'		High Ice					Sat.
4-6					SM	Sand-Silty		Content					
6-8							F						Sat.
8-10						Silty Medium Pebbles							
10-12								VS					Free Water
12-14						Silty Fine Pebbles							
14-16													Sat.
16-18					SP	Fine-Med. Pebbles							
18-20						20'							Sat.
20-22						Clay-Sandy Silty							Free Water
22-24						25'							
24-26						BOTTOM OF HOLE 25'							
26-28													



DS-14-5-74 b

BORROW PIT 128

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 1/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 6

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'							
2					ML	Silt-Clayey Sandy							Damp
4						4'							
6					SM	Sand-Silty Fine		High Ice					Free Water
8								Content					Free Water
10							F						
12						11'							Moist
14					Cl	Clay-Silty 13'		VS					
16						Sand-Silty Fine							Free Water
18					SM								
20													Free Water
22						Pebbles							Sat.
24						Gravelly 25'							
26						BOTTOM OF HOLE 25'							
28													

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

DS-14-5-74 b

BORROW PIT 128

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 7

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		
4					Sm	Sand-Silty		
6						Fine-Med.		High Ice
8								
10								Content
12					SP	Coarse -Pebbles	F	
14								VS
16					SM	Silty Fine Pebbles		
18								
20						Silty Fine		
22								
24					SC	Clayey 25'		
26						BOTTOM OF HOLE 25'		
28								

DEPTH (FEET)

DRY DENSITY (lbs./ Ft.³)

WATER CONTENT (% of dry weight)

ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Wet	
				Sat.	
				Free Water	
				Free Water	
				Free Water	

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BORROW PIT 128

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 8

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0-2					Pt	PEAT 2'		Moderate Ice					Moist
2-4					CL	Clay-Silty 4'							
4-6					SM	Sand-Silty Fine-Med. Pebbles		Vc-Vr					Wet
6-8													
8-10							F	High Ice Content					Wet
10-12													Free Water
12-14													
14-16					SP	Fine-Med.		VS					Free Water
16-18													
18-20													
20-22					SM	Silty Fine							Free Water
22-24					SC	Clayey							Free Water
24-26													
26-28													

DS-14-5-74 b

BORROW PIT 129

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT	DATE DRILLED. 4/4/73	AIRPHOTO NO.	CHAINAGE. 3529 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT 3"		FROZEN					
2						CLAY - SILTY SANDY GRAVELLY BOULDER CHIPS		Nbη					DAMP
4						GRAVEL-CLAY-SAND MIX							DAMP
6													
8					Cl								MOIST
10						CLAY - SILTY SANDY PEBBLES BOULDER CHIPS		LOW ICE					MOIST
12					Ci		F	Vx					
14						LOW - MED. PLASTIC							MOIST
16													
18													
20													DAMP
22								FROZEN					
24						GRAVELLY		Nbη					DAMP
26													
28													

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 129

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE. 3529 + 00	OFFSET.
TECH. PRONYCH	RIG. Mayhew #1	SURFACE DRAINAGE. Ridge	VEGETATION. Spruce	ELEV.

TEST HOLE 2

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
2					Pt	PEAT 1'			2
4					Cl	CLAY - SILTY SANDY GRAVELLY LOW - MED. PLASTIC		NIL ICE Nbη	4
6						PEBBLES			6
8						GRAVELLY		LOW ICE	8
10							F		10
12					Ci			CONTENT Vx	12
14									14
16									16
18								FROZEN	18
20						PEBBLES		Nbη	20
22									22
24									24
26									26
28									28

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 60 20 80 40 100 60 120 80 140 100 100+

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL	RELATIVE THAWED MOISTURE CONTENT
	%	%	%	%	
2					DAMP
4					DAMP
6					
8					MOIST
10					MOIST
12					
14					MOIST
16					
18					
20					DAMP
22					
24					DAMP
26					
28					HUMID

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 129

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 3529 + 00 | OFFSET.

TECH. BAINE | RIG. Mayhew #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT .5'		FROZEN	
2						CLAY - SILTY SANDY GRAVELLY LOW PLASTIC		Nbη	DAMP
4					Cl				DAMP
6									
8						PEBBLES		LOW ICE	MOIST
10							F		MOIST
12					Cl			Vx	
14									MOIST
16									
18									
20						GRAVELLY			MOIST
22								FROZEN Nbη	DAMP
24					Gc	GRAVEL - SILTY SANDY CLAYEY			
26									
28									

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

REMARKS

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 129

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 3529 + 00	OFFSET.
TECH. PRONYCH	RIG. Mayhew #1	SURFACE DRAINAGE. Ridge	VEGETATION. Spruce & Birch	ELEV.

TEST HOLE 4

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
					Pt	PEAT 4"			
2						CLAY - SILTY SANDY PEBBLES			2
4						LOW - MED. PLASTIC			4
6					Cl				6
8							F	LOW	8
10								ICE	10
12					Ci				12
14								CONTENT	14
16									16
18								Vx	18
20									20
22									22
24									24
26						GRAVELLY			26
28									28

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				DAMP
				DAMP
				MOIST
				MOIST
				MOIST
				DAMP
				DAMP
				DAMP

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 129

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B. CONSTANT	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE. 3529 + 00	OFFSET.
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.

TEST HOLE 5

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
2					Pt	PEAT			MOIST
4						CLAY - SILTY SANDY GRAVELLY LOW - MED. PLASTIC		LOW	MOIST
6					Cl			ICE	MOIST
8							F		MOIST
10					Ci			CONTENT	MOIST
12									
14									MOIST
16								Vx	
18									
20									DAMP
22									DAMP
24									
26									
28									DAMP

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140
0 20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 129

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B. CONSTANT	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE. 3529 + 00	OFFSET.
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce & Birch	ELEV.

TEST HOLE 6

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1.5'		
2						SAND - GRAVELLY		
4					Sp			LOW
6								ICE
						7'		
8						CLAY - SILTY		
						SANDY		
10						GRAVELLY	F	CONTENT
						LOW - MED. PLASTIC		
12					Cl			Vx
14					Ci			
16								FROZEN
18								Nbn
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					HUMID
4					DAMP
6					
8					DAMP
10					DAMP
12					
14					DAMP
16					
18					
20					DAMP
22					HUMID
24					
26					
28					HUMID

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 129

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE. 3529 + 00	OFFSET.
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce 8" Birch	ELEV.

TEST HOLE 7

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'		LOW ICE	
2					Ml	SILT - ORGANIC		Vx	DAMP
					Ol				
4						4'		NIL	DAMP
6						CLAY - GRAVELLY SANDY SILTY		ICE	
8					Cl			Nbn	DAMP
10									MOIST
12						CLAY - SILTY SANDY GRAVELLY		NIL	
14					Cl			ICE	MOIST
16								CONTENT	
18					Cl				
20								Nbn	MOIST
22									WET
24									
26									
28									MOIST

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 129

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE. 3529 + 00	OFFSET.
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Birch Alders	ELEV.

TEST HOLE 8

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT .9'							
2						CLAY - SILTY SANDY GRAVELLY		NIL					HUMID
4					Cl	LOW - MED. PLASTIC							HUMID
6													
8					Ci			ICE					HUMID
10													DAMP
12							F	CONTENT					
14								Nbη					DAMP
16													
18								LOW					
20								ICE					MOIST
22								Vx					MOIST
24													
26													
28													DAMP

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 130

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE 796

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2						CLAY -Sandy Silty Pebbles Low-med. plastic Boulders @ 7' & 21'		
4								
6					CL			
8								
10							F	Low
12					CI			Ice
14								Content
16								
18								
20								Vx
22								
24								
25						— 25'		
26						BOTTOM OF HOLE - 25'		
28								

DEPTH (FEET)

DRY DENSITY (lbs./ Ft.^{3})

WATER CONTENT (% of dry weight)

ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Damp
				Moist
				Damp
				Damp
				Damp
				Damp
				Damp

REMARKS

DS-14-5-74 b

BORROW PIT 130

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 3486+00	OFFSET.	TEST HOLE 2
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 790

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 4"								
4					CL CI	CLAY -Sandy Silty Low-med. plastic Gravelly	F	Nbn Nil To Low Ice Content					Moist Moist Damp Damp	
8													Damp	
12						Pebbles							Damp	
16													Damp	
20						Gravelly Pebbles		Vx					Damp Humid	
24														
28													Damp	
32					CI	CLAY -Sandy Silty Pebbles Med. plastic Gravelly 40'		Nil Ice Nbn					Damp Damp	
36														
40						BOTTOM OF HOLE - 40'							Damp	
44														
48														
52														
56														

DS-14-5-74 a

BORROW PIT 130

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

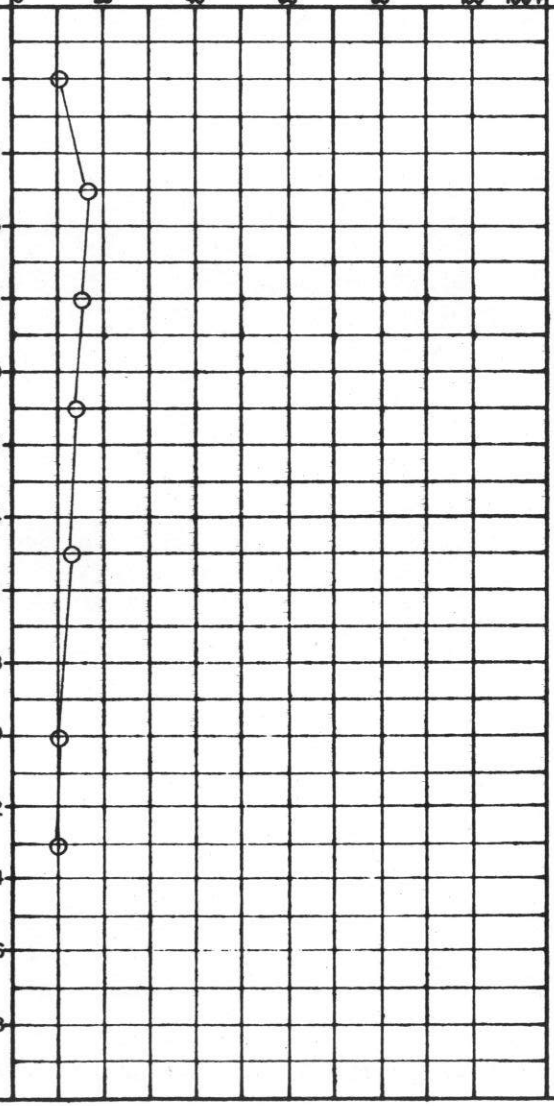
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 3486+00	OFFSET.	TEST HOLE 3
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 790

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2						CLAY -Sandy Silty Pebbles Low-med. plastic		Low
4								
6					CL			Ice
8								
10								Content
12							F	
14					CI			Vx
16								
18								
20								
22								
24								
26						25' — BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Damp	
4						
6					Moist	
8					Moist	
10						
12					Moist	
14						
16					Damp	
18						
20					Damp	
22						
24					Damp	
26						
28						

DS-14-5-74 b

BORROW PIT 130

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE. 3486+00	OFFSET.	TEST HOLE 4
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE	ELEV.	MILE 790

DRY DENSITY (lbs./ Ft.^{3}) ▲ WATER CONTENT (% of dry weight) ⊙ ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1.2'								
2						CLAY -Silty Sandy Gravelly Low-med. plastic		Low					Damp	
4														
6					CL								Damp	
8								Ice					Moist	
10					CI		F						Wet	
12														
14								Content					Wet	
16														
18								Vx						
20													Damp	
22													Damp	
24														
26														
28						30'							Humid	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 130

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE. 3486+00	OFFSET.	TEST HOLE 5
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE & BIRCH	ELEV.	MILE 790

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1.1'		
2						CLAY		Moderate
						-Silty		
4						Sandy		Ice
						Pebbles		
6					CL	Low-med. plastic		Content
8					CI			Vc - Vr
10							F	
								High
12								Ice
								Vs
14								
						15'		Vc - Vr
16					SP	SAND		
						-Gravelly		
18								Moderate
20								Ice
22					SC			
								Content
24						Gravelly-clayey		
26								
28								
						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 109+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Sat.	
				Wet	
				Free Water	
				Wet	
				Sat.	
				Sat.	
				Sat.	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 130

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE. 3486+00	OFFSET.	TEST HOLE 7
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 790

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'		Low						
2						CLAY							Moist	
4					CL	-Sandy							Moist	
6						Silty		Ice						
8						Gravelly	F						Moist	
10						Low-med. plastic								
12								Content					Moist	
14					CI									
16													Moist	
18								Vx						
20													Moist	
22														
24													Moist	
25						25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 130

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE. 3486+00	OFFSET.	TEST HOLE 8
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 790

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY -Sandy Silty Pebbles Med. plastic		Moderate Ice Vc - Vr
8					CI	Gravelly		
12							F	Low Ice Content
20								Vx
30						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Sat.	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 130

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE. 3486+00	OFFSET.	TEST HOLE 9
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 790

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT .5'								
2						CLAY							Moist	
4						-Silty Sandy Gravelly Low-med. plastic		Low					Moist	
6					CL			Ice						
8								Content					Moist	
10					CI		F						Moist	
12														
14													Moist	
16								Vx						
18														
20													Moist	
22													Moist	
24														
						25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 133

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'		Nbn						
2						Sand-Fine-Med. Pebbles		Nil To					Moist	
4								Low Ice					Moist	
6					SP	Gravelly-Med.		VX						
8							F						Damp	
10						Fine-Med. Pebbles 11'							Damp	
12						BOTTOM OF HOLE 11'								
14						Stuck Hole Caving in								
16														
18														
20														
22														
24														
26														
28														

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

DS-14-5-74 b

BORROW PIT 133

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

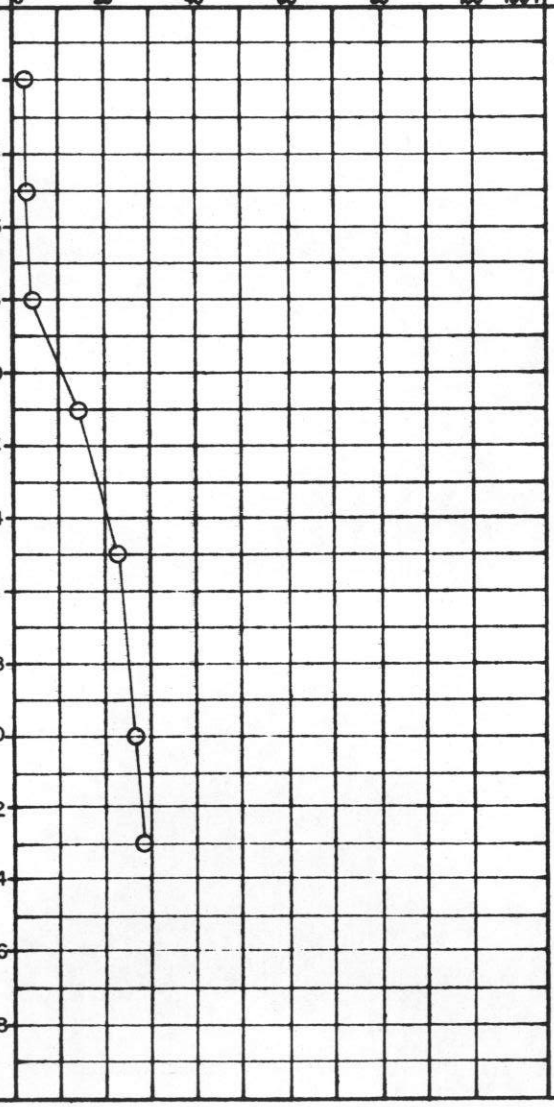
FIELD ENG. N. BURGESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'								
2					SP	Sand-Fine-Med. Gravelly		Low Ice					Damp	
4								VX					Damp	
6						Pebbles								
8							F						Damp	
10					SM								Sat.	
12						Silty Fine								
14								High Ice					Sat.	
16								Content						
18								VS						
20													Sat.	
22					CL	Clay-Sandy Silty Low Plastic							Sat.	
24						25'								
26						BOTTOM OF HOLE 25'								
28														



DS-14-5-74 b

BORROW PIT 133

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		
4						Sand-Fine-Med. Pebbles	F	Low Ice VX
6								
8						Med.		
10								
12					SM	Silty Fine		High Ice Content
14								
16						Silty Med.- Coarse Gravelly		VS
18								
20								
22								
24						25'		
26						BOTTOM OF HOLE 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2	40								

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Wet	
					Moist	
					Moist	
					Wet	
					Free Water	
					Free Water	
					Free Water	

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BORROW PIT 134

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 1

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT .5"								
2					SP	Sand-Fine-Medium Pebbles							Damp	
4								Low Ice					Damp	
6								VX						
8							F						Damp	
10													Wet	
12														
14					SP	Fine-Pebbles		High Ice					Free Water	
16								Content						
18								VS						
20													Free Water	
22					SP	Fine-Med. Pebbles							Sat.	
24						25'								
26						BOTTOM OF HOLE 25'								
28														

DS-14-5-74 b

BORROW PIT 134

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
						PEAT ½'								
2					SP	Sand-Fine-Med. Pebbles	F	Nbn					Moist	
4								Nil to					Moist	
6						Gravelly		Low Ice						
8								Content					Damp	
10								VX					Moist	
12						Pebbles								
14						15'								
16						BOTTOM OF HOLE 15'								
18						Hole Caving in								
20						Stucked								
22														
24														
26														
28														

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

DS-14-5-74 b

BORROW PIT 134

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

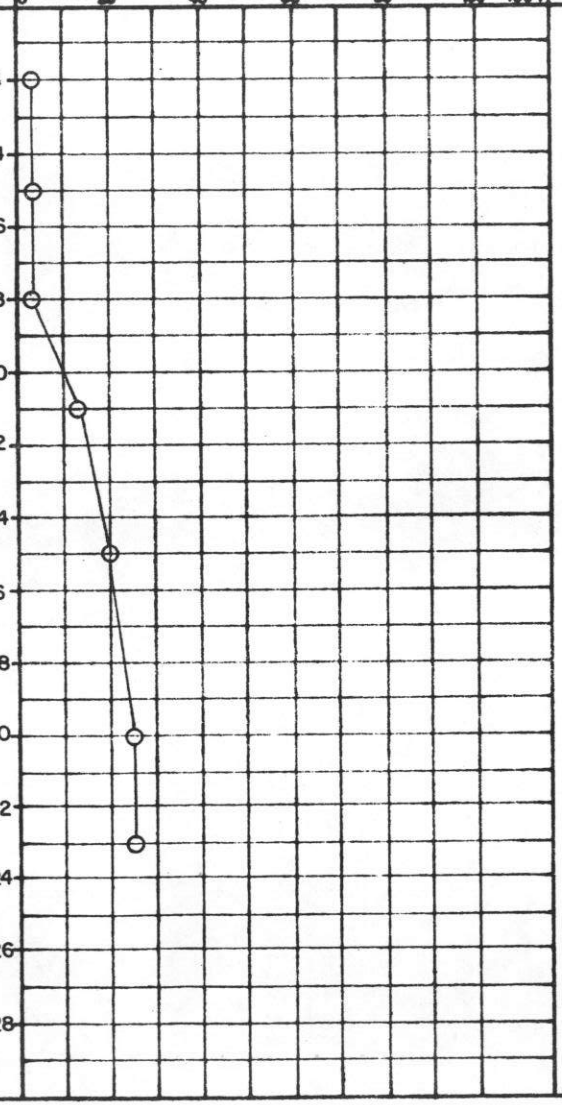
TEST HOLE 3

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
						PEAT .5'							
2					SP	Sand-Fine-Med. Pebbles		Low Ice VX					Damp
4													Wet
6							F						
8													Wet
10													Sat.
12													
14								VS					Sat.
16					SM	Silty Fine Pebbles		High Ice Content					
18													
20													Free Water
22													Sat.
24						25'							
26						BOTTOM OF HOLE 25'							
28													

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 160 180 200+



B074

DS-14-5-74 b

BORROW PIT 134

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 4

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT .5'			
2						Sand-Fine Gravelly		Nil to	Damp
4					SM	Coarse-Med. Pebbles		Low Ice	Damp
6								Content	
8					SP		F	Nbn	Damp
10						11'		VX	
12						BOTTOM OF HOLE 11'			
14						Hole caving in			
16						Stucked			
18									
20									
22									
24									
26									
28									

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 (0) 60 (20) 80 (40) 100 (60) 120 (80) 140 (100) 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

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DS-14-5-74 b

BORROW PIT 134

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 4/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

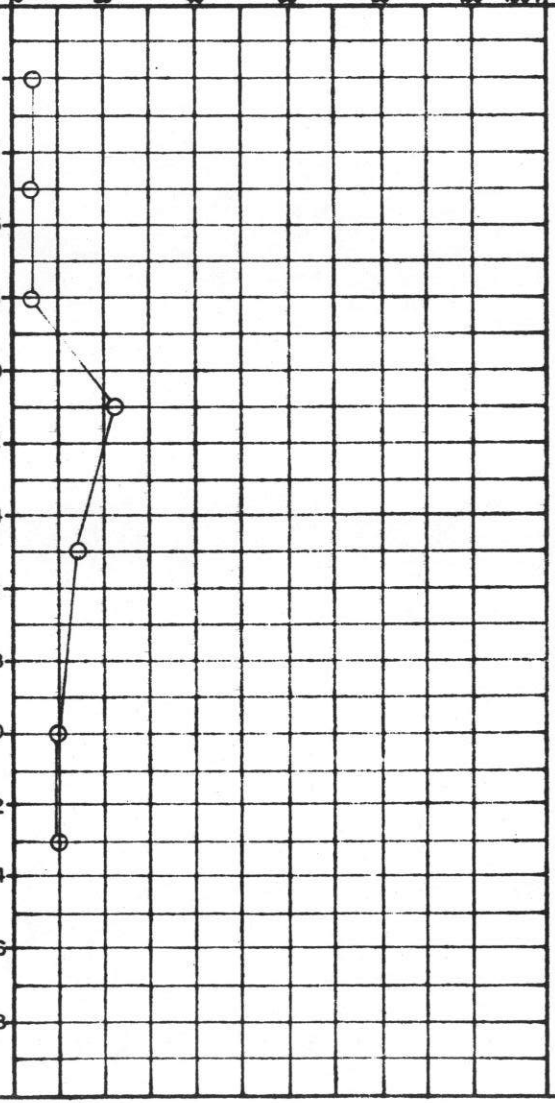
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 5

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1'		
					SP	Sand-Fine-Gravelly		Low Ice
4						5'.		VX
6					GP	Gravel-Sandy		
8						8'	F	
					SP	Sand-Fine Pebbles		
10								
12								High Ice
14					SM	Silty Gravelly Coarse		
16								Content
18								VS
20								
22								
24					GP	Gravel-Sandy		
26						25' BOTTOM OF HOLE 25		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Moist	
				Damp	
				Damp	
				Sat.	
				Sat.	
				Sat.	
				Sat.	

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BORROW PIT 134

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 4/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 6

MILE

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT 1'		Low to Nil Ice Content VX Nbn					Moist	
4						Sand-Fine-Med. Pebbles							Moist	
6														
8													Moist	
10													Moist	
12						13'								
14						BOTTOM OF HOLE 13'								
16						Hole Caving In								
18														
20														
22														
24														
26														
28														

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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: Section -D-

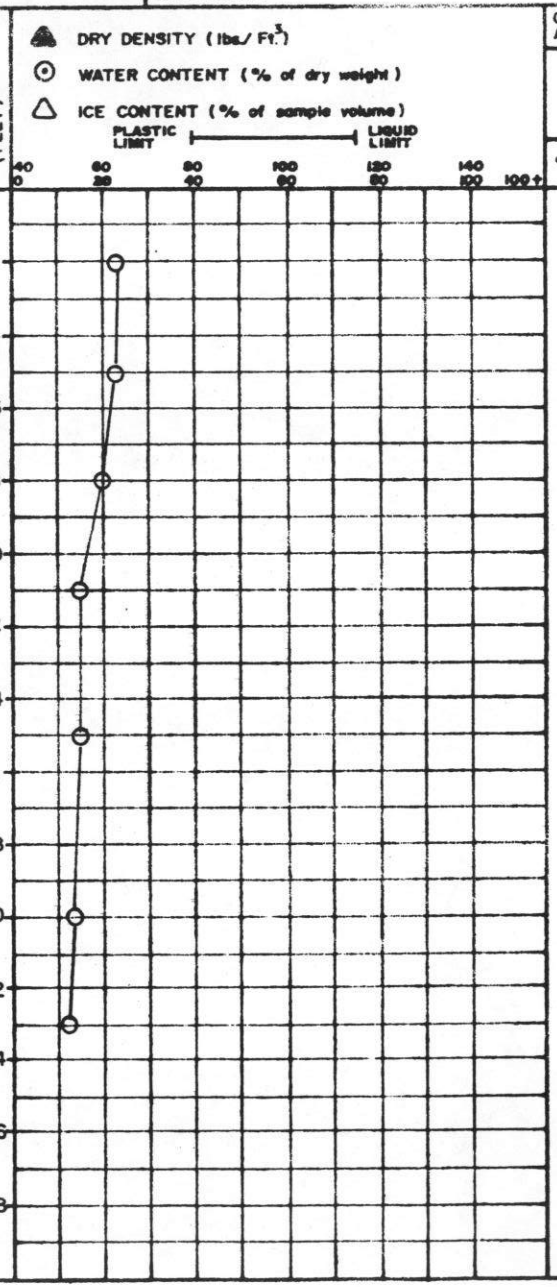
FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.5'		Vc - Vr
2						Clay - Silty		Moderate
						- Sandy		
4						- Pebbles		To
						Low-med plastic		
6					CL			
8					Cl		F	Low Ice
10								
12								Content
14								
16								VX
18								
20								
22								
24								
26								
28						BOTTOM OF HOLE 30'		



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

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DS-14-5-74 b

BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D -

FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT							Damp	
						2'								
4					CL	Clay - org. to 4'		Vc - Vr					Moist	
						- silty								
6						- sandy		Moderate						
						- pebbles								
8						Low - Med. Plastic	F						Moist	
10								to						
12						Gravelly							Damp	
14					Cl			Low						
16						Pebbles		Ice					Damp	
18														
20								Content					Moist	
22								VX					Moist	
24						Gravelly								
26														
28						BOTTOM OF HOLE 25'								

▲ DRY DENSITY (lbs./Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 100+

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BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

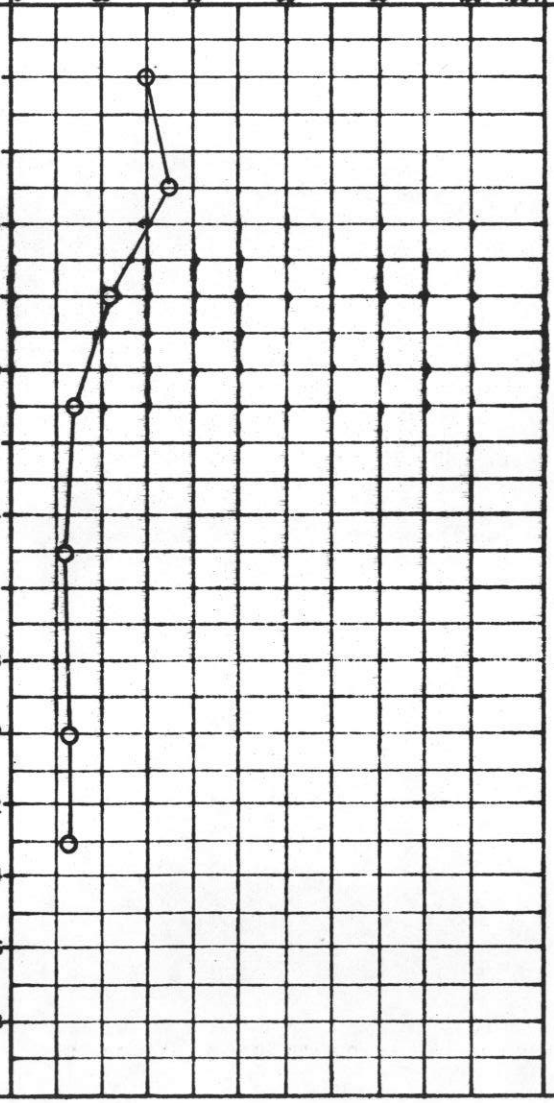
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'	F	High Ice
4					CL	Clay - Organic to 4' - Silty - Sandy - Pebbles Low-Med. Plastic		VS
6								
8					Cl			Moderate Ice Content
10								
12								Low Ice
14								
16								
18								
20								VX
22								
24								
26								
28						BOTTOM OF HOLE 25'		

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
					← Free Water
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	

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BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 4

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2						Sand - Silty Fine - Med. Pebbles to 4'		Low
4					SM			
6								
8								
10							F	Ice
12								
14								VX
16								
18								
20								
22								
24								
26								
28						BOTTOM OF HOLE 25'		

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

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BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 5

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .7								
2						Clay - Organic to 4'		High Ice					Free Water	
4					CL	- Sandy - Silty Low - Med. Plastic		VS					Sat.	
6						- Pebbles								
8								Moderate					Wet	
10							F	to Low						
12					Cl			Ice					Wet	
14								Content						
16								Vc - Vr					Moist	
18														
20								VX					Damp	
22						Shale Fragments @ 20' & 28'							Damp	
24														
26														
28						BOTTOM OF HOLE 30'								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 100+

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BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max. 6" | ELEV.

TEST HOLE 6

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
2					Pt	PEAT .5			2
4						Clay - Sandy - Silty - Pebbles		High	4
6						Low - Med. Plastic		to	6
8							F	Moderate	8
10								Ice	10
12								Content	12
14									14
16									16
18									18
20									20
22									22
24									24
26									26
28						BOTTOM OF HOLE 30'			28

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Sat.	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

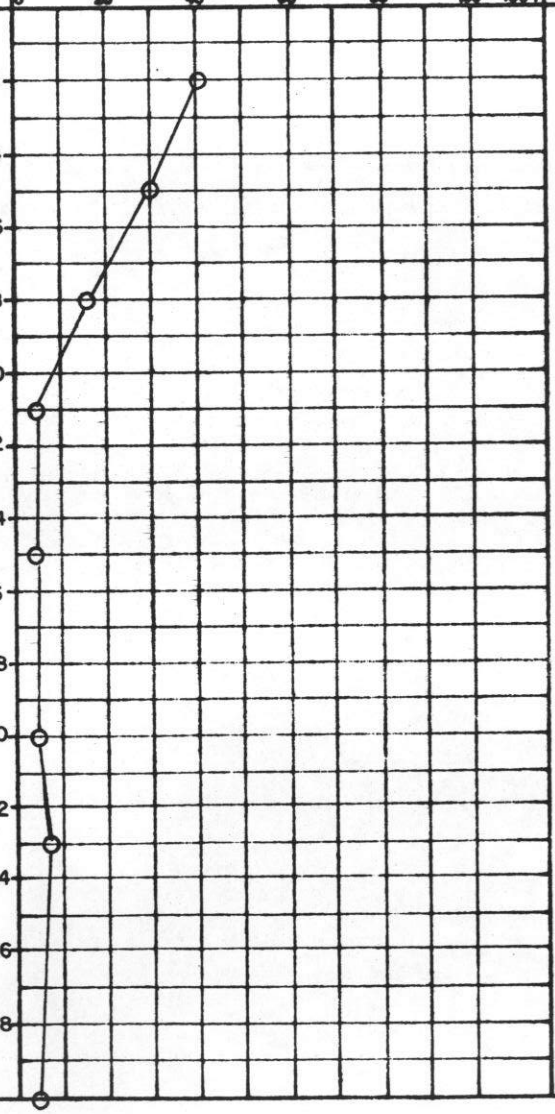
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce MAX. 10" | ELEV.

TEST HOLE 7

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT .8		VS						
2					CL	Clay - Sandy - Silty - Pebbles Low - Med. Plastic		High					Sat.	
4								To					Sat.	
6								Moderate						
8					Cl			Ice					Moist	
10						10.5		Content						
12						Shale - Black Hard		Vc - Vr					Moist	
14								Nbn					Moist	
16														
18								Frozen						
20													Damp	
22													Damp	
24														
26														
28						BOTTOM OF HOLE 30'							Damp	

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+



B074

DS-14-5-74 b

BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

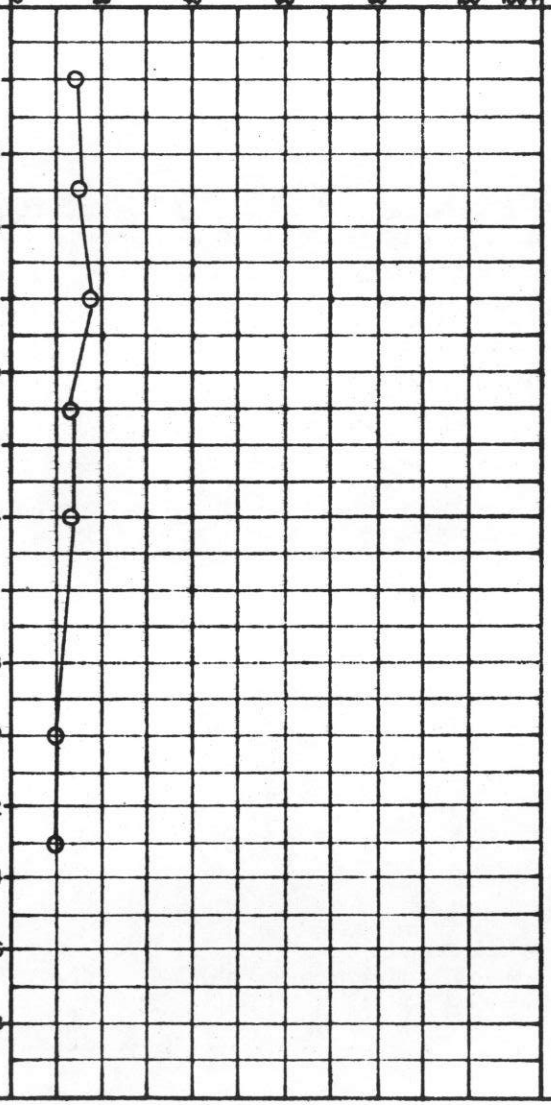
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 8

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5		
2					Cl	Clay - Silty - Sandy - Pebbles Med. Plastic	F	Low Ice Content
4								
6								
8								
10								
12								
14								VX
16								
18						19		
20						Shale & Siltstone Hard		Nbn Frozen
22								
24								
26								
28						BOTTOM OF HOLE 25'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

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DS-14-5-74 b

BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 9

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		VX
2						Clay - Silty		Low
4						- Sandy		To
6						- Pebbles		Moderate
8					Cl	Med. Plastic	F	Ice Content
10						11		Vc - Vr
12						Shale - Siltstone Hard - Black		
14								Frozen
16								
18								Nbn
20								
22								
24								
26								
28						BOTTOM OF HOLE 25'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Damp	
2						
4					Moist	
6						
8					Wet	
10					Damp	
12						
14					Damp	
16						
18						
20					Damp	
22					Damp	
24						
26						
28						

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DS-14-5-74 b

BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

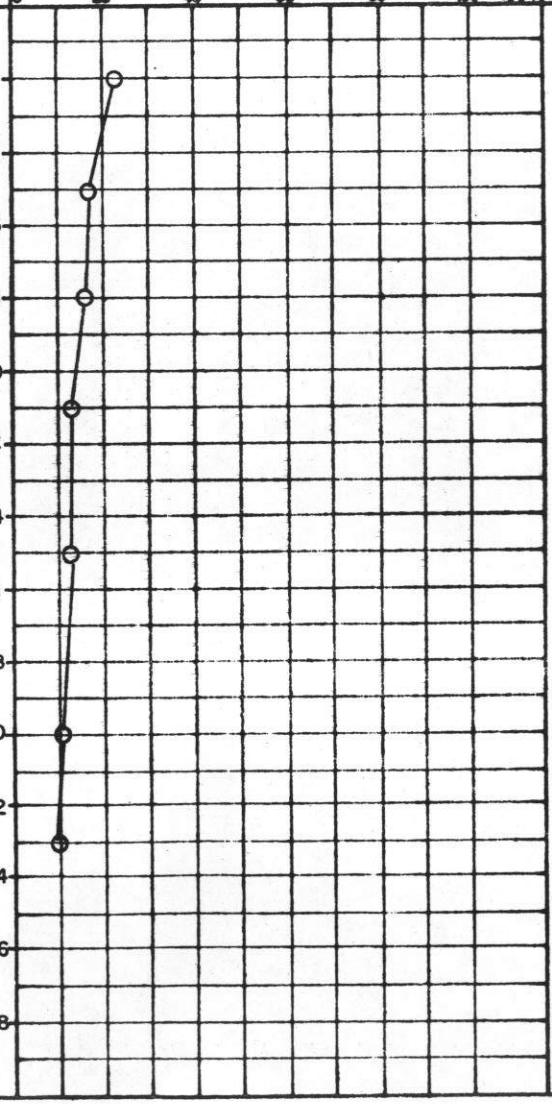
SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 10

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'			
2						Clay - Sandy - Silty - Pebbles Med. Plastic		Moderate Ice Vc - Vr	Sat.
4									Wet
6									
8					Cl		F		Moist
10									Damp
12									
14								Low Ice Content	Damp
16									
18									
20									Damp
22								VX	Humid
24									
26									
28						BOTTOM OF HOLE 25'			

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

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BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 5/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

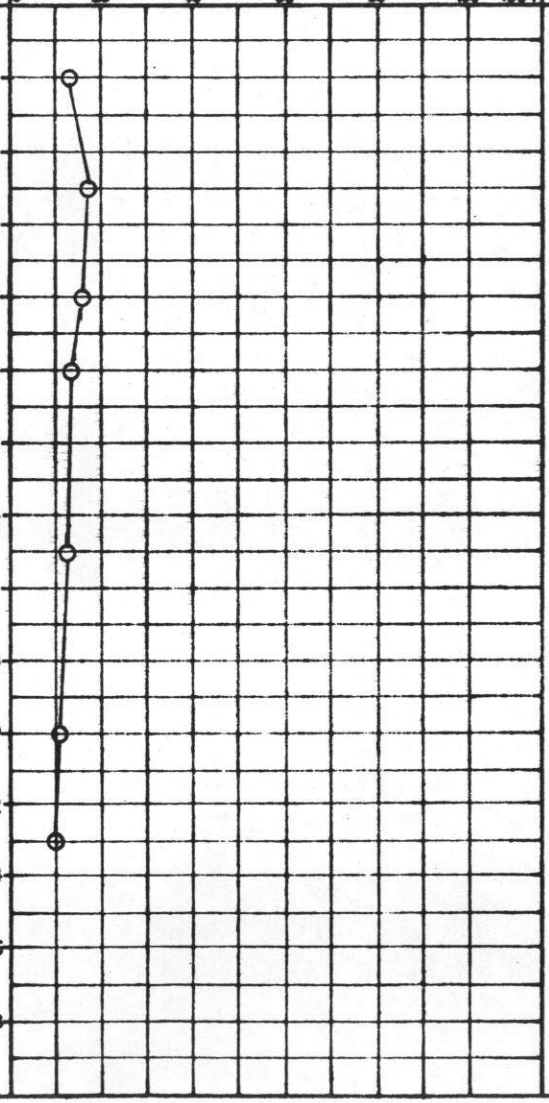
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 11

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5		
2						Clay - Sandy - Silty - Pebbles Low-Med. Plastic		Moderate
4					CL			Vc - Vr
6					Cl			
8							F	To
10						11'		Low
12						Shale - Soft		
14								Ice
16								
18								Content
20								
22						Soft - Med. Hard		VX
24								
26								
28						BOTTOM OF HOLE 25'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 160 180+



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Humid
				Sat.
				Wet
				Wet
				Moist
				Moist
				Damp

REMARKS

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BORROW PIT 135

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 12

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 1'								
2						Boulders & Cobbles To 2.5'							Moist	
4						Clay - Sandy Silty Pebbles Low- Med. Plastic		Low					Wet	
6								Ice						
8					CL		F						Moist	
10								Content					Moist	
12					Cl	Shale Fragments Hard To Bottom of Hole								
14								VX					Moist	
16														
18														
20													Moist	
22													Moist	
24						BOTTOM OF HOLE 25'								
26														
28														

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

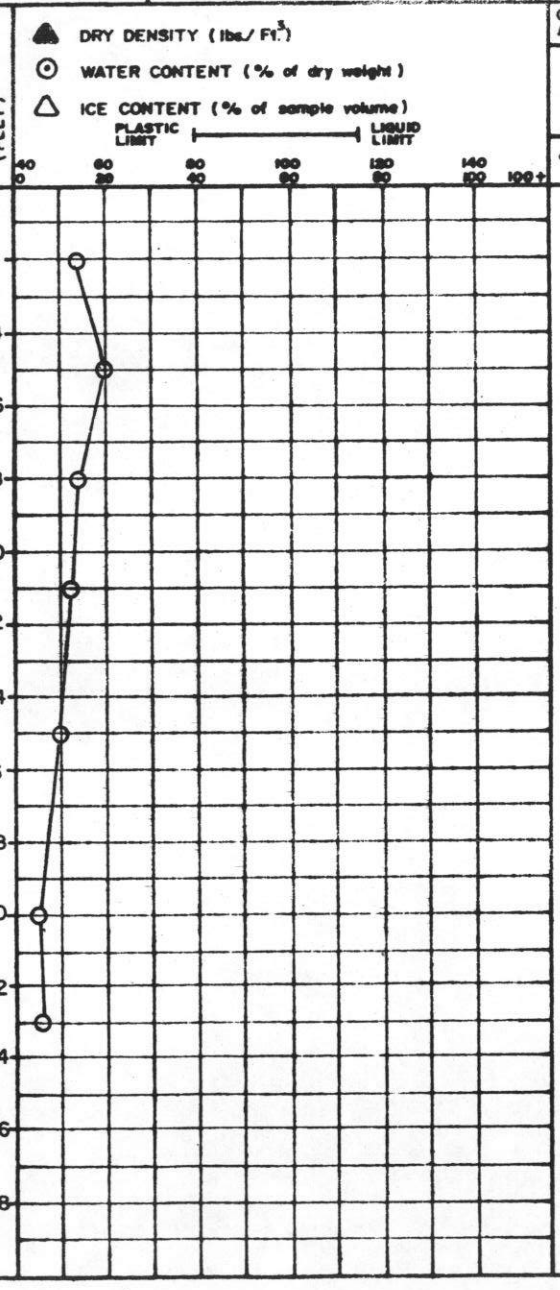
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 13

MILE 792.5

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT 1'		Moderate Vc - Vr To Low	
2						Clay - Sandy Silty Pebbles			Moist
4					CL	Shale Fragments		Ice	Wet
6						Clay - Sandy Silty Low-Med. Plastic Pebbles	F		
8					Cl			Content	Moist
10						60 - 70% Shale Frags.		VX	
12						12			Moist
						Sahle - Black Hard		Low Ice VX To Frozen	Wet
16									
18									
20								Nbn	Humid
						BOTTOM OF HOLE 25'			
22									Humid
24									
26									
28									



GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

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BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BLAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 14

MILE 792.5

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 2"		VX
						Cobbles to 6"		
2								
						Clay - Sandy Silty Pebbles		Low
4								
								To
6					CL	Low-Med. Plastic		
8								Moderate
10					Cl		F	Ice
								Content
12								
14								
16								
18								Vc - Vr
20								
22						BOTTOM OF HOLE 25'		
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 40 20 60 40 80 60 100 80 120 100 140 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					
2					Moist
4					Moist
6					
8					Wet
10					Moist
12					
14					Moist
16					
18					
20					Moist
22					Wet
24					
26					
28					

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BORROW PIT 135

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DRILL HOLE REPORT

SITE: SECTION -D-

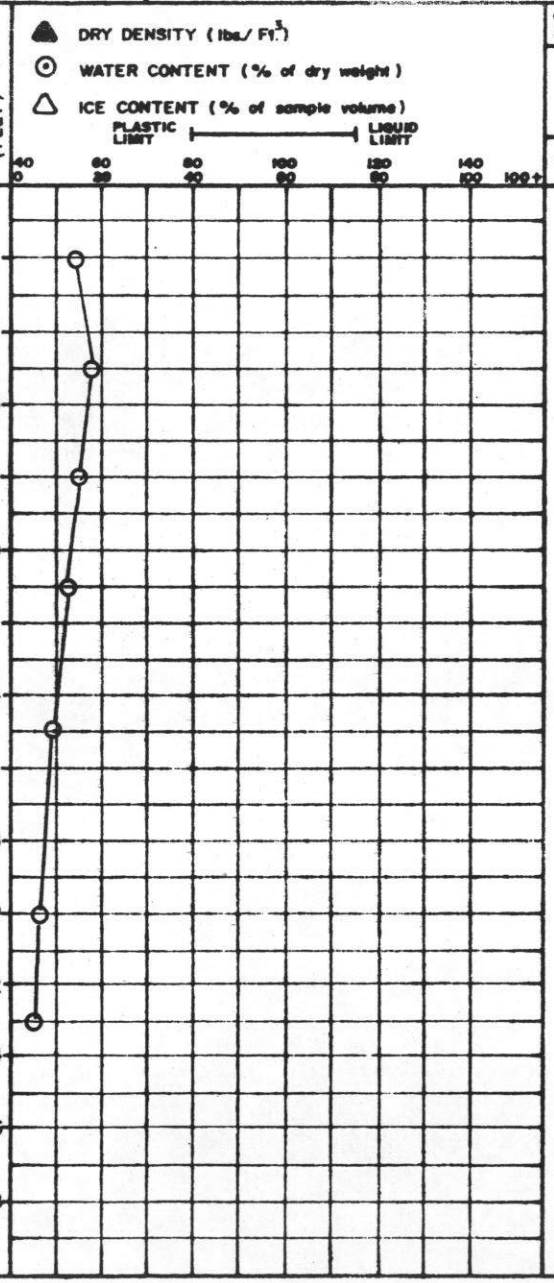
FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 15

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT		Moderate To Low Ice Content Vc - Vr VX						
2					Cl	Clay - Silty Sandy Pebbles							Damp	
4						Med. Plastic							Moist	
6														
8						9'							Wet	
10						Shale - Black Hard	F	Low Ice To Frozen VX Nbn					Moist	
12														
14														
16													Moist	
18														
20													Damp	
22													Damp	
24						BOTTOM OF HOLE 25'								
26														
28														



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DS-14-5-74 b

BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

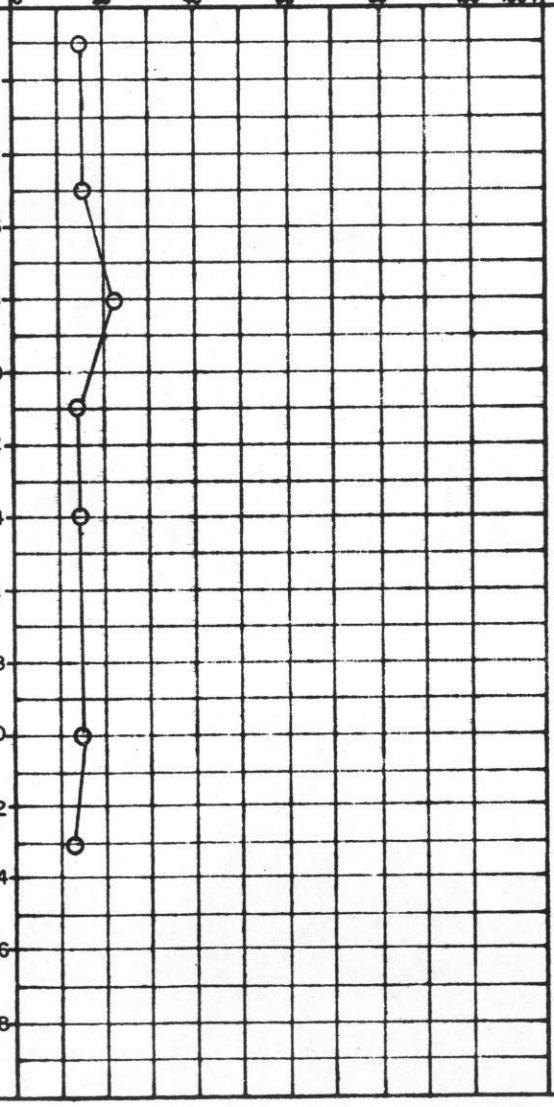
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 16

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5		Low					Moist	
2						Clay - Silty - Sandy - Med. Plastic							Moist	
4								Ice						
6					Cl									
8						- Pebbles		Content					Wet	
10							F						Moist	
12														
14						Shale Fragments Hard		VX					Moist	
16														
18														
20						Pebbles							Moist	
22													Moist	
24						BOTTOM OF HOLE 25'								
26														
28														

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 100+



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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 17
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE. Slope to W.	VEGETATION. Spruce	ELEV.	MILE 792.5

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 0 20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'								
2					CL	Clay - Sandy Silty - Pebbles - Small Shale Frags. 4'		Moderate					Moist	
4						Shale - Siltstone Black - Med. Hard-Hard							Sat.	
6								Ice						
8													Sat.	
10							F							
12								Vc - Vr					Wet	
14								Low						
16								To					Wet	
18								VX						
20													Moist	
22						Med. Hard - Hard		Nbn Nil						
24								Ice						
26													Moist	
28						BOTTOM OF HOLE 29' Hard		Content						

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BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. Pronych | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 18

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					PT	Peat 4"								
2						Clay - Sandy Silty Pebbles							Moist	
4						Shale Fragments Hard							Moist	
6														
8						Pebbles		Low					Moist	
10					CL			Ice					Moist	
12						Shale Fragments Hard	F	Content						
14					Cl	Low- Med. Plastic		VX					Moist	
16														
18														
20													Damp	
22														
24													Damp	
26														
28						Pebbles								
						BOTTOM OF HOLE 29'							Damp	

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160+

GRAIN-SIZE ANALYSIS

REMARKS

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

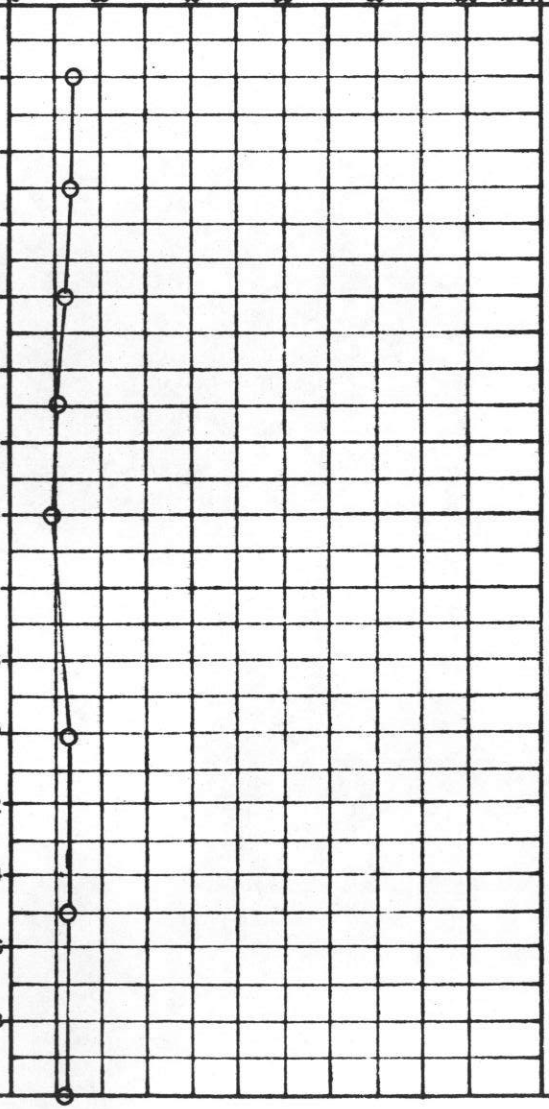
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to W. | VEGETATION. Birch | ELEV.

TEST HOLE 19

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 4"		
2						Clay - Sandy - Silty Low Plastic		
4					CL			Low
6						- Pebbles 7		Ice
8					SM	Sand - Silty Fine	F	
10					Sc	- Clayey		Content
12								
14						Sandstone Chips		VX
16						Possible Soft Sandstone		
18								
20								
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs/ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Moist	
				Damp	
				Moist	
				Moist	
				Moist	

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BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 9/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | ELEV.

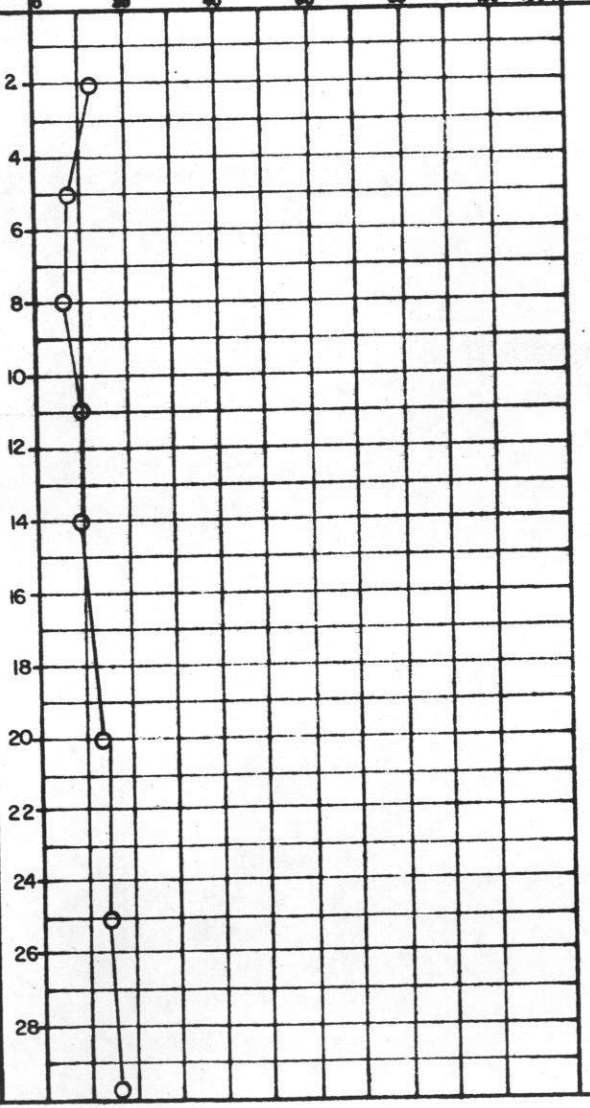
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to W | VEGETATION. Spruce & Birch

TEST HOLE 20

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 2"							Damp	
2					CL	Clay - Silt - Sand Mix								
4						4'							Damp	
6					SM	Sand - Silty Fine Sandstone Chips	F	Low Ice					Damp	
8													Moist	
10														
12					Sc	Clayey Possible Soft Sandstone		VX					Damp	
14														
16														
18														
20													Moist	
22														
24													Moist	
26														
28						BOTTOM OF HOLE 29'							Moist	

DRY DENSITY (lbs./Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+



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DS-14-5-74 b

BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 9/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 21

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to W. | VEGETATION. Birch - Poplar | ELEV. | MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT 4"		Nbn	
2						Sand - Silty Fine		Nil	Damp
						Soft Sandstone Chips			
4								To	
					SM				Damp
6									
8								Low	Damp
10							F	Ice	
					SC	Clayey 11' - 13'			Moist
12									
								Content	
14									Damp
16									
18					SM			VX	
20									Moist
22									
24									
									Damp
26									
28									
					CL	Clay - Sandy			Moist

BOTTOM OF HOLE 29'

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160	180+
2										
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26										
28										

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. | AIRPHOTO NO. | CHAINAGE. | OFFSET.

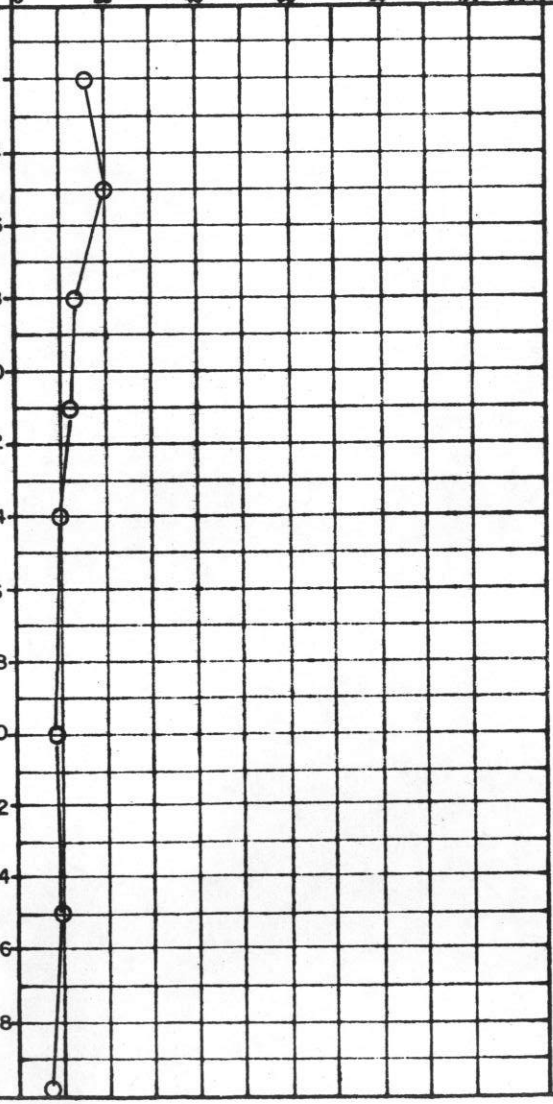
TECH. PRONYCH | RIG. Mayhew #1 | SURFACE DRAINAGE. Slope to N-W | VEGETATION. Birch - Spruce | ELEV.

TEST HOLE 22

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2						Clay - Sandy - Silty Low- Med. Plastic		Moderate
4						Pebbles		To
6					CL			Vc - Vr
8						Shale Fragments		
10					Cl		F	
12								
14								Low
16								Ice
18								
20								Content
22						Shale - Soft - Hard		VX
24								
26								
28						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Wet
				Moist
				Moist
				Moist
				Damp
				Damp
				Damp

REMARKS

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to N.-W. | VEGETATION. Spruce | ELEV.

TEST HOLE 23

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 6"								
2						Clay - Sandy - Silty - Pebbles		Low					Moist	
4					CL	Low-Med. Plastic							Wet	
6						Shale Fragments	F	Ice						
8					Cl								Moist	
10													Moist	
12						Boulder Chips		Content						
14						13' Shale - Soft to Hard							Wet	
16														
18								VX						
20													Damp	
22														
24													Damp	
26														
28						BOTTOM OF HOLE 29'							Humid	

DRY DENSITY (lbs./ Ft.^{3}) ● WATER CONTENT (% of dry weight) ○ ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

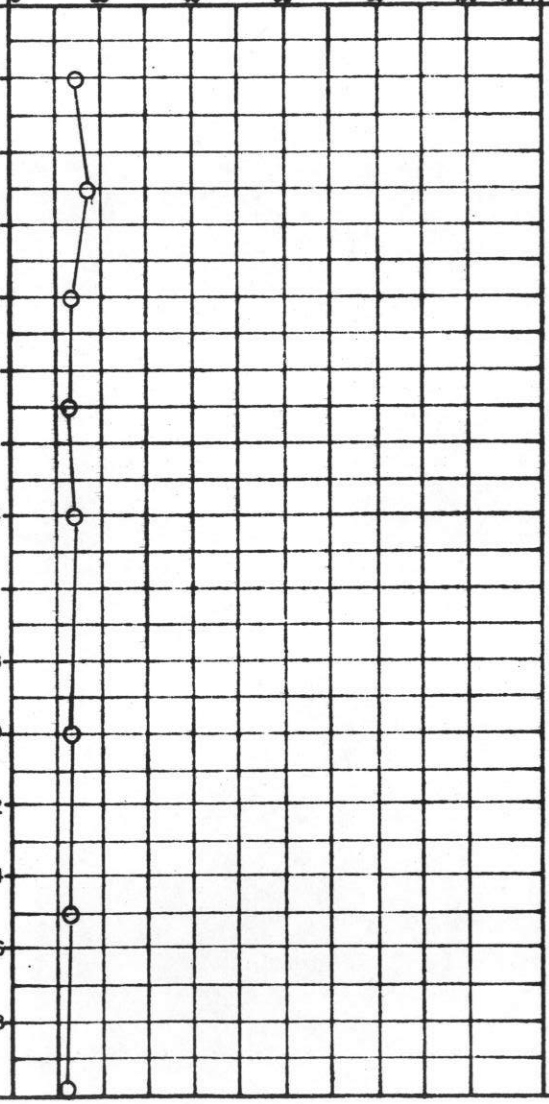
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to W | VEGETATION. Spruce | ELEV.

TEST HOLE 24

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						Clay - Sandy Silty							Moist	
4						Shale Fragments-Hard Med. Plastic								
6					Cl	Pebbles							Moist	
8							F						Moist	
10														
12								Low					Moist	
14								Ice						
16														
18					Cl			Content						
20						Pebbles & Soft Shale Fragments							Moist		
22								VX						
24													Moist	
26														
28														
						BOTTOM OF HOLE 29'							Moist	

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

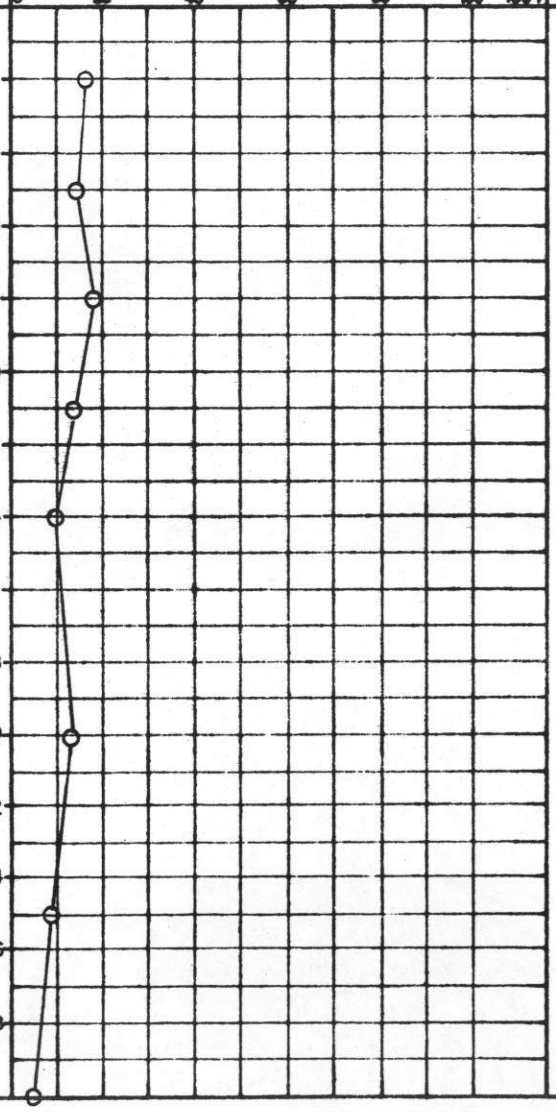
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to W. | VEGETATION. Spruce | ELEV.

TEST HOLE 25

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					OH	ORGANIC .5'		Vc - Vr
2						Clay - Sandy - Silty - Pebbles		
4						Low Plastic		Moderate
6					CL			
8						Shale Fragments Hard 40%		Ice
10							F	Low Ice
12						50%		
14						14'		Content
16						Shale - Soft - Hard		
18								VX
20						Soft - Med. Hard		
22								
24								
26								
28						Soft - Hard BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Moist	
				Moist	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Humid	

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BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Level | VEGETATION. Burnt out Area | ELEV.

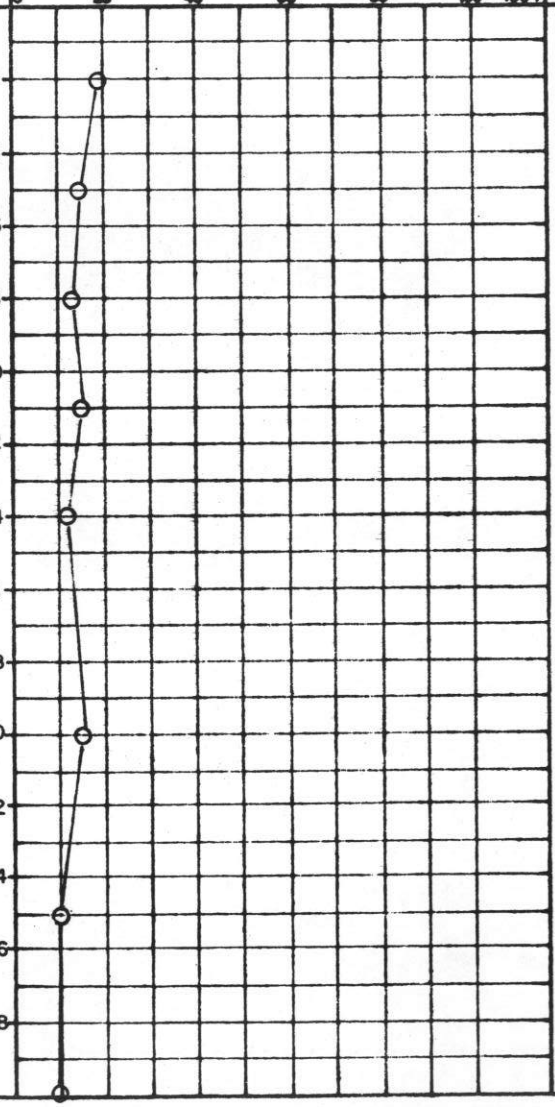
TEST HOLE 26

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 2"		
2						Clay - Silty - Sandy Shale Fragments		Moderate
4						Hard		
					Cl	Low - Med. Plastic		Vc - Vr
6								
8						50 - 60%		To
10					Cl	30%	F	
12								Low
14						Pebbles		Ice
16								
18								Content
20								
22								VX
24						Shale Fragments 50%		
26								
28						50 - 60%		

BOTTOM OF HOLE 29'

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Moist
					Moist
					Moist
					Moist
					Damp
					Moist
					Damp
					Damp

REMARKS

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BORROW PIT 135

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 9/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

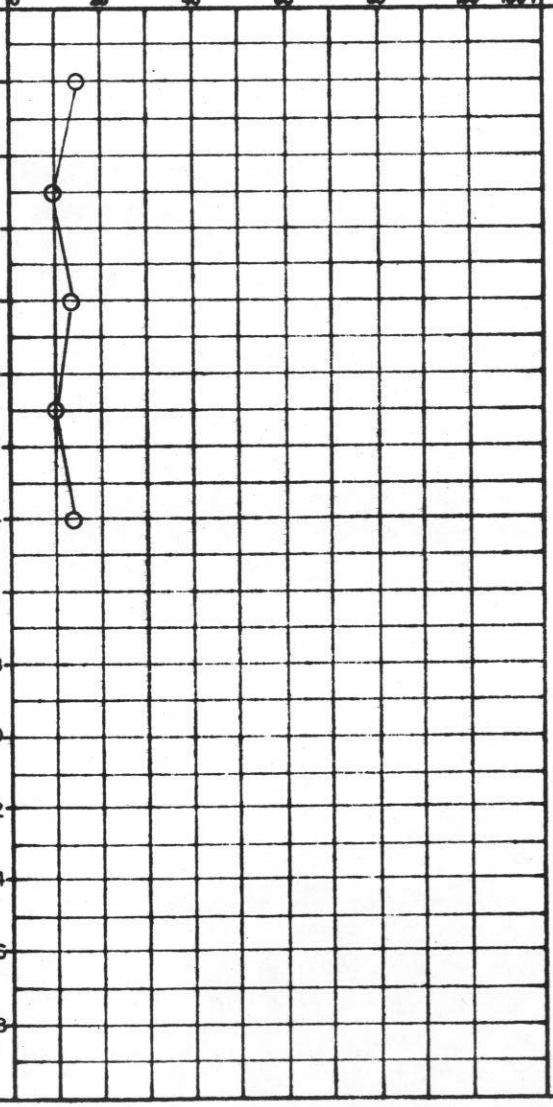
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to W. | VEGETATION. -- | ELEV.

TEST HOLE 27

MILE 792.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					OH	ORGANIC 2"		
2						Clay - Silty Sandy Sand - & Siltstone Shale Chips		Low
4								Ice
6					CL	Low- Med. Plastic		
8						50%	F	
10					Cl			Content
12						50%		VX
14						Pebbles & Shale @ 14'		
16						BOTTOM OF HOLE 14'		
18								
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

DEPTH (FEET)	RELATIVE THAWED MOISTURE CONTENT
2	Moist
4	Damp
6	Moist
8	
10	Moist
12	
14	Moist

REMARKS

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BORROW PIT 136

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 6/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 1

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Burnt Over | ELEV. | MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT .7'								
2					ML	Sandy - Silt Mix Clayey							Damp	
					SC	4'		Low						
4						Clay - Silty - Sandy								
6						Pebbles							Damp	
8						Med. Plastic		Ice						
10													Damp	
					Cl			VX					Damp	
12							F							
14														
16													Damp	
18														
20														
22						23'							Humid	
24						Siltstone - Shale Ground Down							Humid	
26								Nbn						
28								Frozen						
						BOTTOM OF HOLE 30'							Humid	

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160+

B074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 6/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

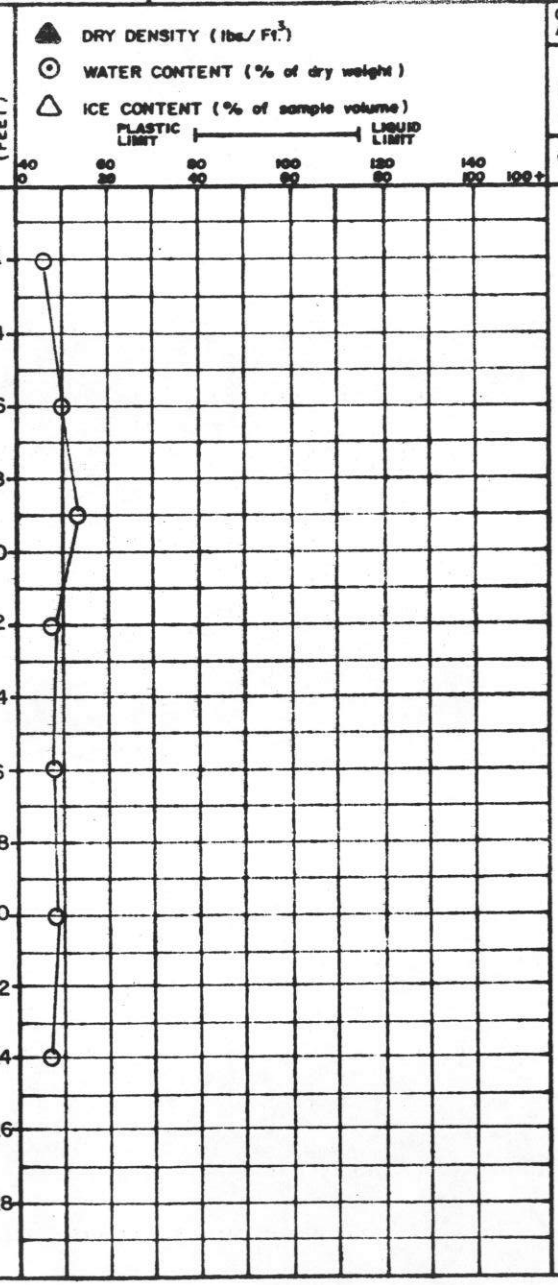
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE 791

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT .5'							
2					GM	Gravel - Silty							Humid
4						4'							
6					SM	Sand - Silty Pebbles		Low					Humid
8					Sc	Clayey		Ice					
10							F						Humid
12						Silty - Gravelly		VX					Humid
14													
16													Humid
18													
20						20'							Humid
22						Clay - Sandy Gravelly							
24					CL	Low - Plastic							Humid
26													
28													
						BOTTOM OF HOLE 25'							



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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 6/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

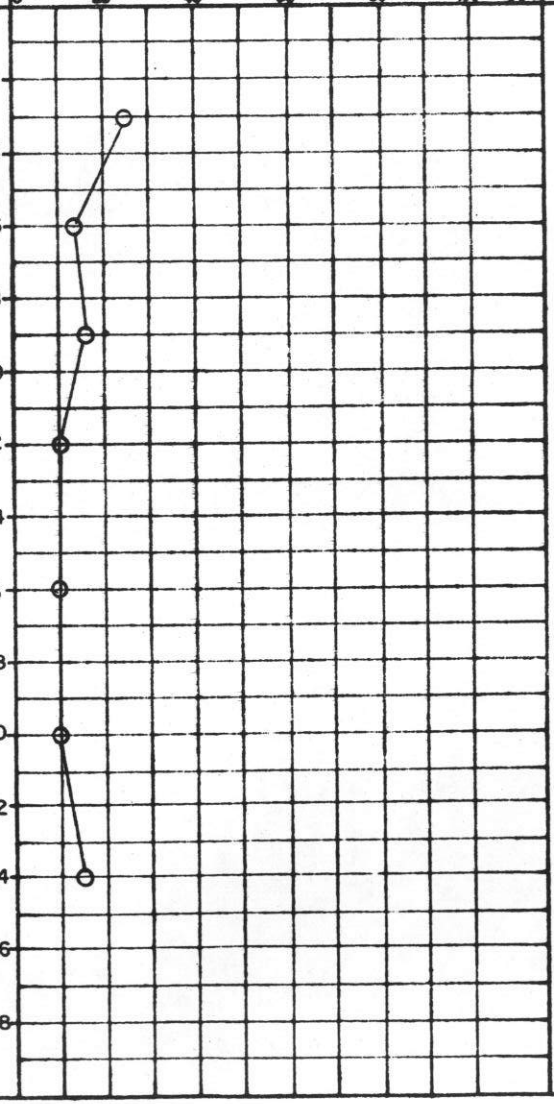
TEST HOLE 3

MILE 791

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		Moderate
4						Clay - Silty - Sandy - Pebbles		Ice
6					CL	Low Plastic		Vc - Vr
8								
10								
12						Gravelly	F	
14						Med. Plastic		Low
16					Cl			Ice
18								
20								VX
22								
24						Pebbles BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Sat.
				Sat.
				Sat.
				Damp
				Damp
				Damp
				Damp

B074

DS-14-5-74 b

BORROW PIT 136

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 6/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. SPRUCE - BIRCH-ALDER | ELEV.

TEST HOLE 4

MILE 791

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.3'		Moderate
2						Clay - Silty - Sandy		Ice
4						Pebbles		
6						Low- Med. Plastic		Vc-Vr
8					CL			
10					Cl		F	Low
12								
14								Ice
16								
18								VX
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Damp
				Sat.
				Wet
				Moist
				Moist
				Moist
				Damp

BOTTOM OF HOLE 30'

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BORROW PIT #136

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 6/13/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

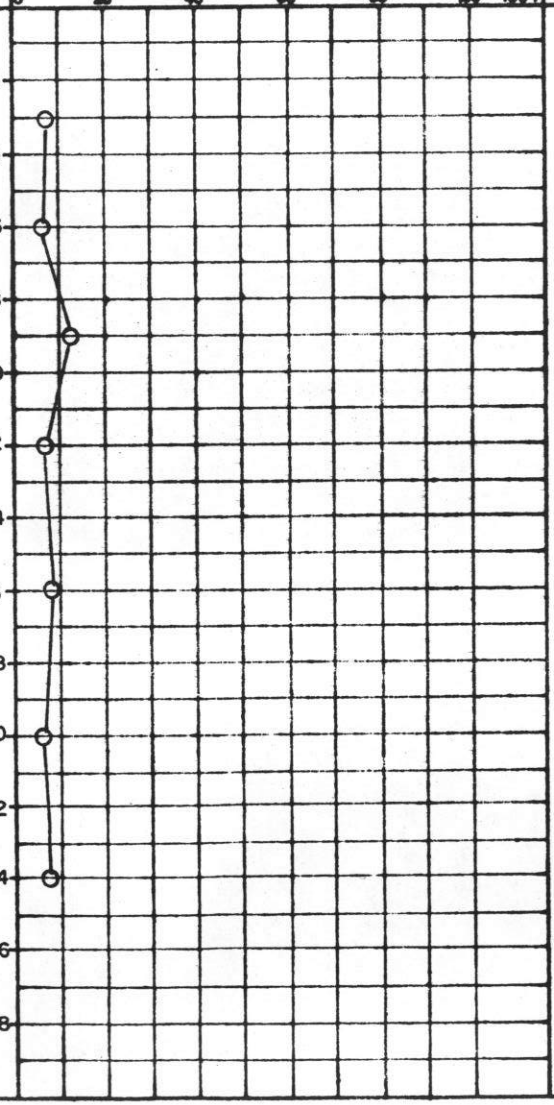
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 5

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5		
2					SM	Sand - Silty Few Pebbles		
4						4'		
6					CL	Clay - Silty Sandy - Pebbles	F	Low
8					Cl	Low - Med. Plastic		Ice
10						11'		
12					SM	Sand - Silty Gravelly		VX
14						14'		
16						Clay - Silty Sandy Pebbles		
18								
20					CL	Low-Med. Plastic		
22					Cl			
24						Gravelly BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 6/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 6

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE 791

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
0 | 40 20 | 60 40 | 80 60 | 100 80 | 120 80 | 140 100 | 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						Clay - Silty Sandy Pebbles							Moist	
4								Low						
6						Med. Plastic							Moist	
8								Ice						
10													Moist	
12					Cl		F	VX					Moist	
14														
16													Moist	
18														
20													Moist	
22														
24						Gravelly BOTTOM OF HOLE 25'							Moist	
26														
28														

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BORROW PIT 136

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 6/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 7

MILE 791

REMARKS

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT .5'							
2						Clay - Silty - Sandy - PEbbles		Low					Moist
4													
6					CL	Gravelly		To					Moist
8								VX					
10						Pebbles							Wet
					Cl	Low - Med. Plastic	F						
12								Moderate					Wet
14								Ice					Wet
16						17'							
18						Gravel - Sandy Clayey							
					Gc			Vc-Vr					
20													Wet
22													
24						BOTTOM OF HOLE 25'							
26													
28													

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DS-14-5-74 b

BORROW PIT 136

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. | AIRPHOTO NO. | CHAINAGE. | OFFSET.

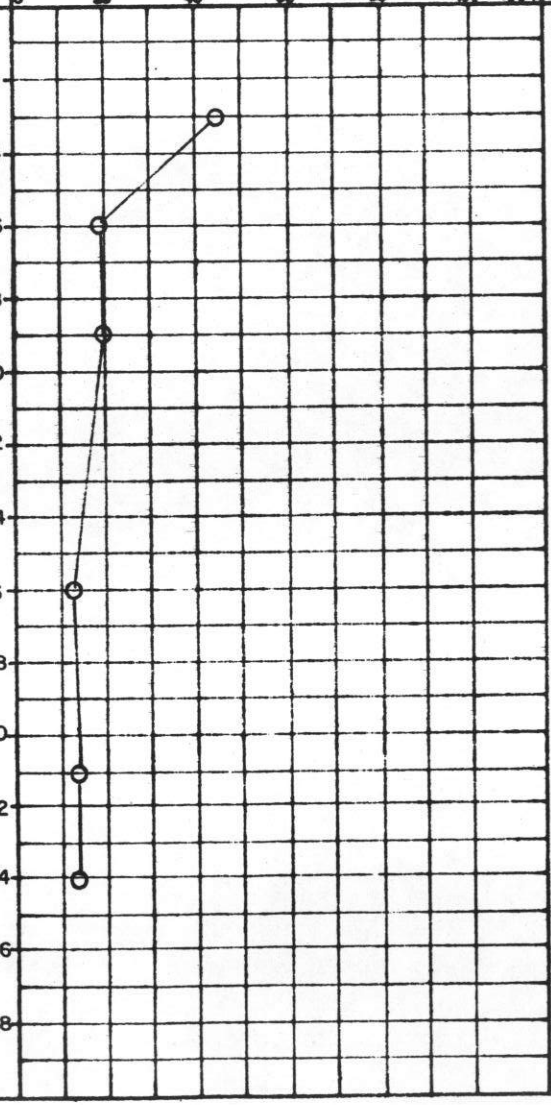
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 8

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		High
4						Clay - Silty		To
6						- Sandy		Moderate
8						- Pebbles		Ice
10						Low Plastic		Vs
12					CL		F	Vc-Vr
14								Low
16								Ice
18								VX
20								
22								
24						Gravelly		
26						BOTTOM OF HOLE 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 160+



GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Free Water	
				Sat.	
				Sat.	
				Moist	
				Moist	
				Moist	

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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGESS | DATE DRILLED. | AIRPHOTO NO. | CHAINAGE. | OFFSET.

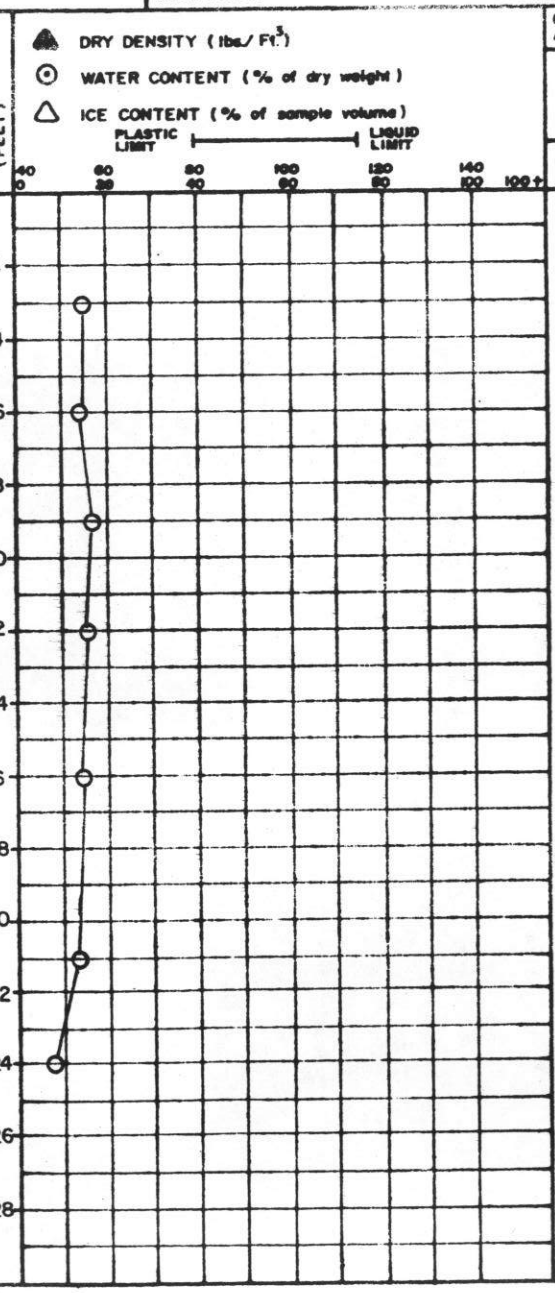
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 9

MILE 791

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'							
2					CL	Clay - Silty - Sandy - Pebbles	F	Moderate & High					Wet
4													
6						Low Plastic							Wet
8								Ice					Free Water
10													
12													Wet
14								Vc - Vr					
16													Moist
18								Vs					
20													Moist
22						23'							
24					Gc	Gravel - Clayey Sandy							Moist
26						BOTTOM OF HOLE 25'							
28													



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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. SLOPE TO W. | VEGETATION. SPRUCE | ELEV.

TEST HOLE 1

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		Vc - Vr
2						Clay - Silty		Moderate
						- Sandy		
						- Pebbles		To
4						Low-Med. Plastic		
6					CL			
8								Low
					Cl			
10							F	Ice
12								
14								Content
16								VX
18								
20								
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DEPTH (FEET)

▲ DRY DENSITY (lbs./Ft.³)

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Moist	
				Damp	
				Moist	
				Moist	
				Damp	
				Damp	

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DS-14-5-74 b

BORROW PIT 137

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 2

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to W. | VEGETATION. Spruce - Birch | ELEV. | MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'								
2						Clay - Silty - Sandy - Pebbles		Moderate Ice					Moist	
4						Med. Plastic		Vc - Vr					Moist	
6														
8							F						Damp	
10					Cl								Damp	
12								Low						
14								Ice					Damp	
16														
18								Content						
20													Damp	
22								VX						
24													Damp	
26														
28						BOTTOM OF HOLE 29'							Damp	

DRY DENSITY (lbs./ Ft.^{3}) ▲ WATER CONTENT (% of dry weight) ⊙ ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160+

R074

DS-14-5-74 b

BORROW PIT 137

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

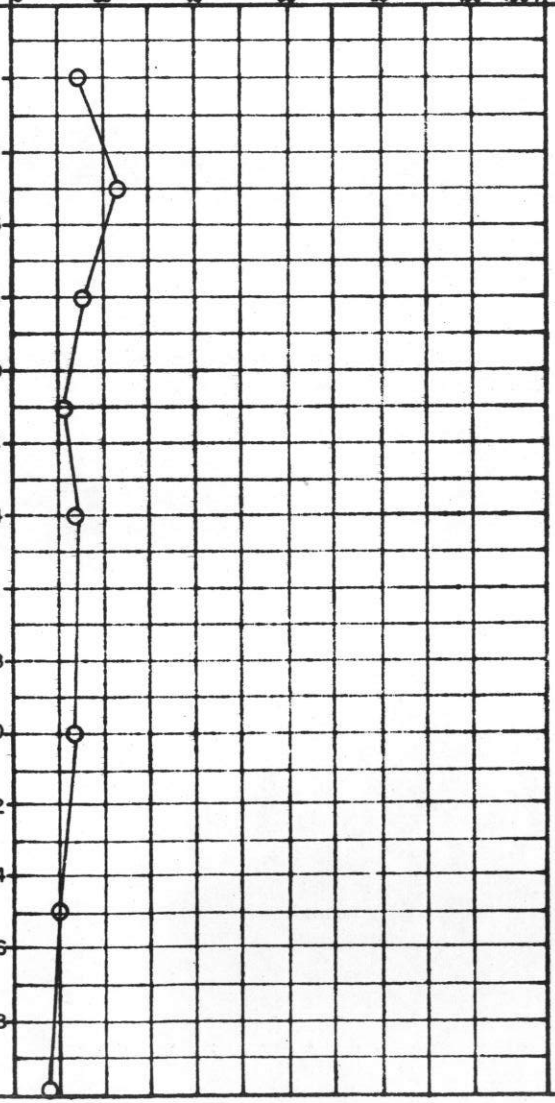
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to W. | VEGETATION. Spruce | ELEV.

TEST HOLE 3

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		Moderate
2						Clay - Silty		Ice
4						- Sandy		
6						- Pebbles		
8						Med. Plastic		Vc - Vr
10					Cl		F	Low
12								Ice
14						14'		
16						Sandstone - Soft		Content
18						Sand		
20								VX
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Moist	
2						
4					Wet	
6						
8					Moist	
10					Moist	
12						
14					Moist	
16						
18						
20					Moist	
22						
24						
26					Moist	
28						

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEM #1 | SURFACE DRAINAGE. TOP OF SLOPE | VEGETATION. Spruce | ELEV.

TEST HOLE 4

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2						Clay - Silty - Sandy - Pebbles		Moderate Ice
4					CL			Vc - Vr
6					Cl	Low-Med. Plastic		
8							F	Low
10								
12								
14								
16						16'		Ice
						Shale - Silty Sandstone - Soft		
18								
20								VX
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4					Moist	
8					Moist	
10					Moist	
14					Moist	
20					Damp	
24					Damp	
28					Damp	

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE. Level	VEGETATION. Willow & Spruce	ELEV.

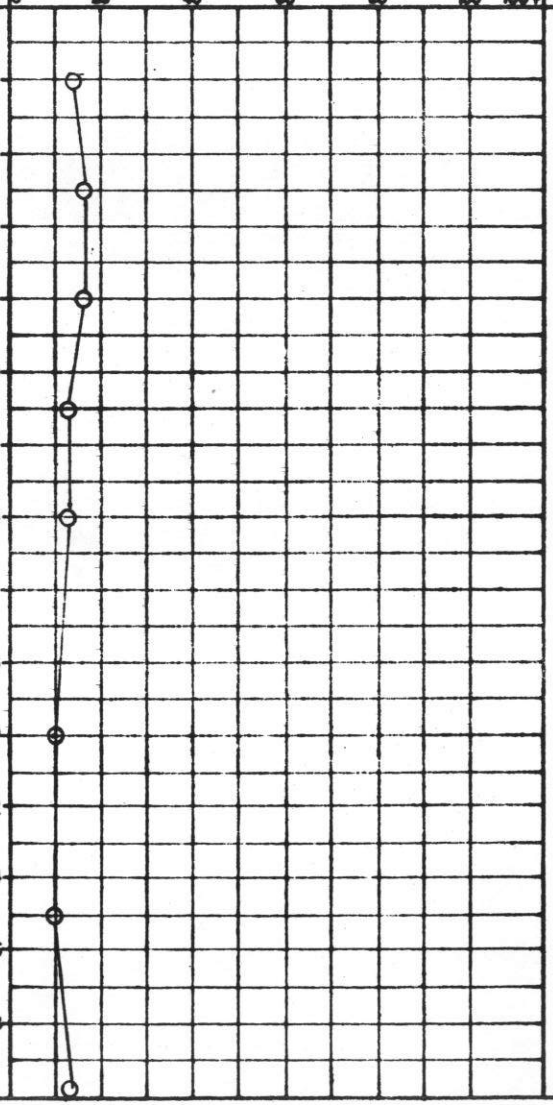
TEST HOLE 5

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2						Clay - Silty - Sandy - Pebbles		Low
4								
6					CL	Low- Med. Plastic		Ice
8					Cl			
10								Content
12							F	
14								VX
16								
18						17' Sandstone - Soft Shale Soft Layered		
20								
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DEPTH (FEET)

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	

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BORROW PIT 137

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Edge of Slope | VEGETATION. Spruce | ELEV.

TEST HOLE 6

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						Clay - Silty - Sandy		
4					Cl	Low - Med. Plastic		
6					Cl			
8							F	Low
10								Ice
12						12'		
14						Sandstone - Shale Layers Soft		Content
16								VX
18								
20								
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DEPTH (FEET)

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

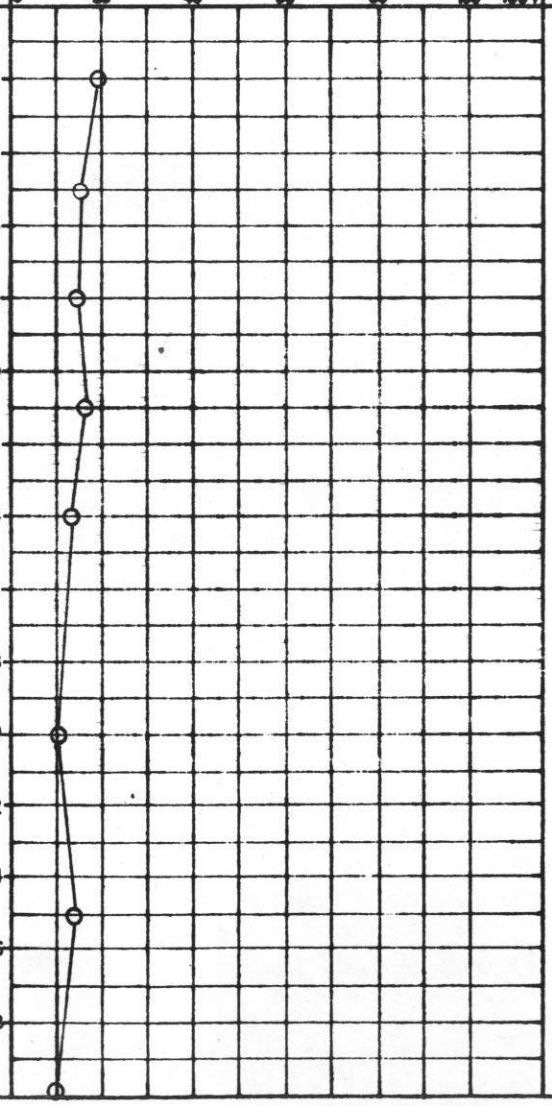
FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Birch	ELEV.

TEST HOLE 7

MILE 791

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		Vc - Vr
2						Clay - Silty		
						- Sandy		Moderate
4						- Pebbles		
								To
6					CL	Shale Fragments		
								Low
8					Cl	Low - Med. Plastic	F	
								Ice
10								
						12'		
12						Shale - Sandstone		Content
						Layers		
14								
16								VX
18								
20								
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Damp	
				Damp	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

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DS-14-5-74 b

BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		Vx
2						CLAY		Low
4					CL	-Sandy Silty Gravelly Low-med. plastic		To
6					CI			Moderate
8						— 8'		Ice
10						GRAVEL		Content
12					GC	-Sandy Clayey Shale fragments	F	Vc - Vr
14						— 12'		
16						SHALE -Silty Med.- hard - hard		Frozen
18								Nbn
20								
22						Hard		
24								
26						— 25'		
28						BOTTOM OF HOLE - 25'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT
Moist
Moist
Sat.
Wet
Wet
Moist
Damp

REMARKS

DS-14-5-74 b

BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — .5'		Low
2						CLAY -Sandy Silty Gravelly Med. plastic Boulders 8'-10'		Ice
4								
6								Content
8								Vx
10						— 10½'		
12						SHALE-SILTSTONE -Hard	F	
14								Frozen
16						Hard Drilling		Nbn
18								
20								
22								
24						— 25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Moist
					Wet
					Damp
					Moist
					Humid
					Humid
					Humid

REMARKS

DS-14-5-74 b

BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 3

MILE 786.5

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2						CLAY -Silty Sandstone-Siltstone fragments 4'		Moderate
4								
6					CL			Ice
8								
10					CI		F	Vc - Vr
12								
14								
16								
18								
						19'		
20						SHALE -Silty Soft		Low Ice Content Vx
22								
24								
						25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT
Moist
Wet
Moist
Moist
Moist
Moist
Moist

DS-14-5-74 b

BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

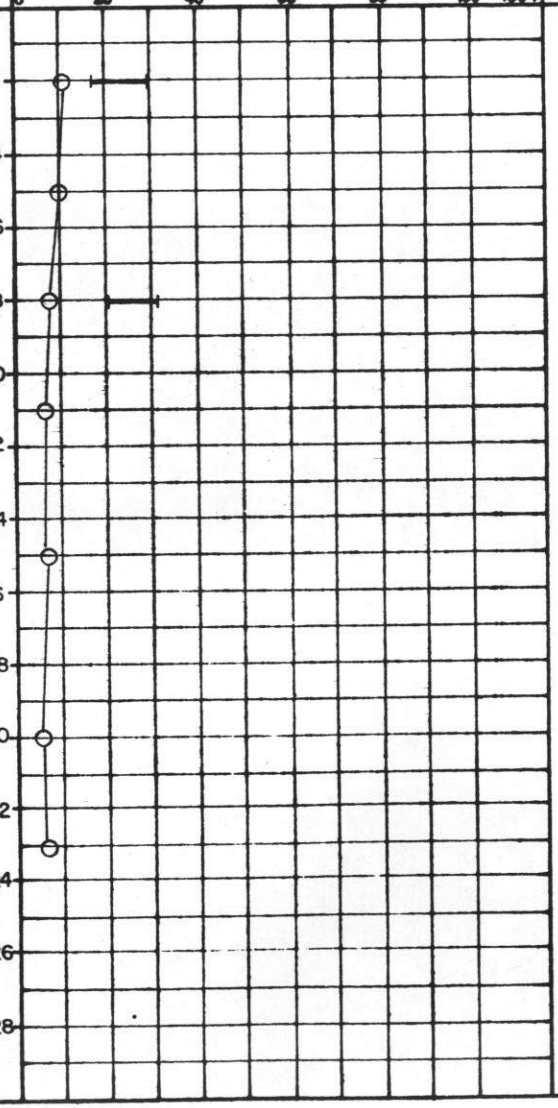
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 4

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'		Low Vx Ice						
2					CL	CLAY -Sandy Silty Gravelly 4.5'							Moist	
4						SHALE-SILTSTONE -Soft-med. hard							Damp	
6														
8						Soft							Humid	
10													Humid	
12						Soft-med. hard	F	Frozen Nbn						
14													Damp	
16						SILTSTONE -Soft								
18														
20						Soft-med. hard							Humid	
22						Med. hard							Humid	
24						25'								
26						BOTTOM OF HOLE - 25'								
28														

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DS-14-5-74 b

BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE 786.5

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT — 1'							
2						CLAY -Sandy Silty Siltstone frags. Hard to 7' Low-med. plastic		Low					Wet
4								Ice					Sat.
6													
8					CI	Pebbles	F	Content					Moist
10													Moist
12								Vx					
14					CL								Moist
16								Vx					
18								Low					
20								To					Damp
22						Gravelly		Nil Ice					
23						— 23'		Content					Damp
24					ML	SILT-Sandy clayey Siltstone frags.		Nbn					
25						— 25'							
26						BOTTOM OF HOLE - 25'							
28													

DS-14-5-74 b

BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 6

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT .5'		Low To Vx Nil Ice Nbn	Damp
4					CI	CLAY -Silty Sand & Siltstone fragments Med. plastic 6'	F		Damp
8									Damp
12						SHALE-SILTSTONE -Soft			Humid
16						SHALE -Soft-med. hard Silty		Frozen Nbn	Humid
20									Humid
24						Med. hard			Humid
28									Humid
32									Humid
36									Humid
40						40'			Humid
44						BOTTOM OF HOLE - 40'			
48									
52									
56									

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140
0 20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

REMARKS

DS-14-5-74 a

BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 7/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

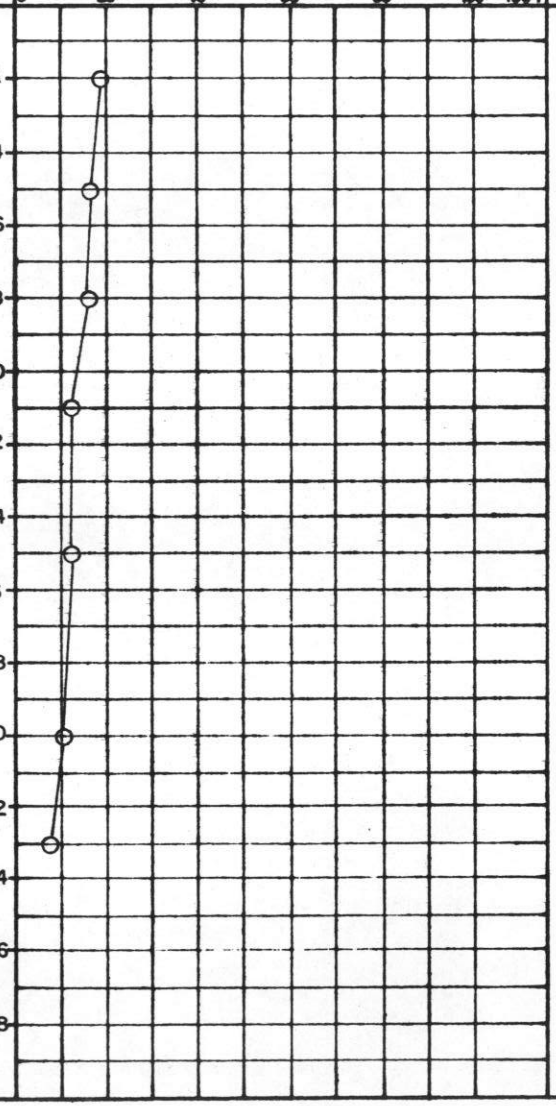
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 7

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2					CL	CLAY -Silty		Moderate
4					CI	SILTSTONE -Soft Low-med. plastic		To
6						5' SILTSTONE-SANDSTONE CLAY -Silty Soft		Vc - Vr
8								Low
10								Ice
12							F	Content
14								
16						SHALE -Soft Silty		
18								Vx
20								
22								
24						25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4					Moist	
8					Moist	
12					Moist	
16					Moist	
20					Moist	
24					Moist	

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BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE 786.5

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT — 1'		Moderate					Damp
2						CLAY -Silty Siltstone soft		Ice					
4													Wet
6					CL CI	Sandy silty Pebbles							
8								Vc - Vr					Wet
10						— 10'	F						Moist
12						SHALE -Soft Silty							
14													Damp
16								Low					
18								Ice					
20								Content					Damp
22													Damp
24						Soft-med. hard		Vx					
25						— 25'							
26						BOTTOM OF HOLE - 25'							
28													

DS-14-5-74 b

BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 9
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 786.5

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'								
2						CLAY -Silty		Low					Moist	
4														
6						Sandy Med. plastic Pebbles Siltstone frags.		Ice					Moist	
8					CI	Soft		Vx					Moist	
10														
12							F						Moist	
14														
16								Low					Moist	
18														
20						— 20'		Ice					Moist	
22						SHALE -Soft SILTSTONE -Med. hard		Nil Ice Content					Damp	
24														
26						— 25' BOTTOM OF HOLE - 25'		Nbn						
28														

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BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 10

MILE 786.5

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT .5'		Low Ice Vx Content					
2					CI	CLAY -Silty Sandy Few pebbles Med. plastic							Moist
4													Moist
6						7'							
8						SHALE	F						
10													
12						Core							
14													
16													
18													
20													
22													
24						25'							
26						BOTTOM OF HOLE - 25'							
28													

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BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 11

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		Moderate Ice Content Vc - Vr
2					CI	CLAY -Silty Sandy Pebbles Med. plastic		
4								
6								
8						— 7.5'		
10						SHALE-SILTSTONE -Soft-hard		
12						SHALE -Soft-hard	F	Frozen Nbn
14								
16								
18								
20								
22								
24						— 25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Wet	
				Damp	
				Humid	
				Humid	
				Humid	
				Damp	

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BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. 5" | ELEV.

TEST HOLE 12

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					CI	CLAY -Sandy Silty Pebbles Med. plastic Gravelly		Moderate Ice
8						— 8'		Vc - Vr
10						SHALE -Broken down Soft-silty Siltstone frags. Soft-med. hard	F	
14						Med. hard - hard		Low Vx To Nil Ice Content Nbn
25						— 25'		
26						BOTTOM OF HOLE - 25'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4					Moist	
8					Wet	
10					Moist	
14					Moist	
20					Moist	
22					Moist	

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DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. MCINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE - ALDER 7" | ELEV.

TEST HOLE 13

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					GC	GRAVEL-SAND-CLAY MIXTURE		Low
4						— 4'		
6					CI	CLAY -Sandy Silty Gravelly Med. plastic	F	Ice Content Vx
8								
10								
12						Pebbles		
14								
16						Gravelly		
18						— 17'		
20						SHALE-SILTSTONE -Med. hard - hard		Frozen Nbn
22						Hard		
24								
26						— 25' BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Wet
				Moist
				Moist
				Moist
				Moist
				Moist

REMARKS

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 14
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE - BIRCH	ELEV.	MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.4'	F	Vx
2						CLAY -Sandy Silty Pebbles Gravelly Med. plastic		Low To Moderate Ice Content
4								
6								
8					CI			
10								Vc - Vr
12								
14						— 13.5'		Vx
16						SHALE -Med. hard		Low To Nil Ice
18								
20						Thin Sand layers @ 20'-25'		
22								Nbn
24						— 25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4					Moist	
8					Moist	
12					Moist	
16					Wet	
20					Moist	
24					Moist	

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BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

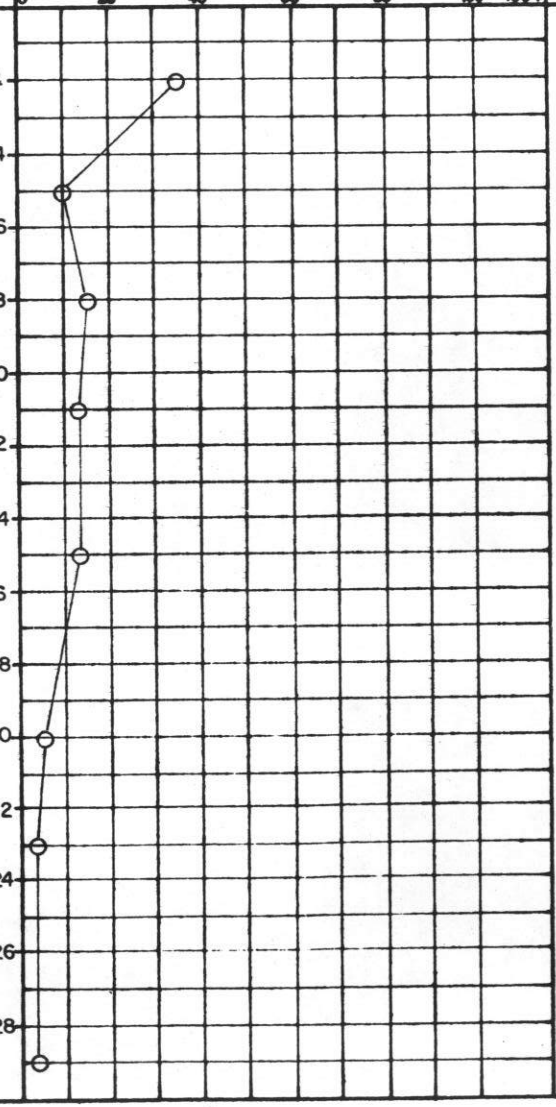
FIELD ENG. N. BURGESS	DATE DRILLED. 8/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE 6" - BIRCH	ELEV.

TEST HOLE 15

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High Ice
1.2'								
2						CLAY -Organic to 4' Sandy Silty Pebbles Gravelly		Vs
4								Low
6								
8					CI	Pebbles	F	Ice
10								
12						Gravelly		Vx
14								
14'								
16						SHALE -Broken down Soft-med. hard		
18								Frozen
20						Med. hard - hard		Nbn
22								
24								
26								
28						Hard		
30'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Moist	
				Wet	
				Moist	
				Damp	
				Humid	

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BOTTOM OF HOLE - 30'

BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 16

MILE 786.5

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT .5'		Low					
2						CLAY		Ice					Damp
4						-Silty							
6					CI	Sandy Pebbles Med. plastic		Vx					Damp
8						8'	F	Content					Humid
10						SHALE -Silty Soft-hard		Frozen					Humid
12													
14								Nbn					Humid
16													
18													
20													Humid
22													Humid
24													
25						25'							
26						BOTTOM OF HOLE - 25'							
28													

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BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 16A
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2'								Low
					CL	CLAY -Silty Sandy Pebbles Low plastic	F	Ice
8'								Content
						SHALE -Soft		
						Soft-med. hard		Vx
16½'						SANDSTONE -Hard		
20'						CLAY-SANDSTONE-SHALE Layers Hard drilling 16½'-25'		Nbn
25'						BOTTOM OF HOLE - 25'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140
0 20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Moist	
				Damp	
				Moist	
				Damp	

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BORROW PIT 138

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

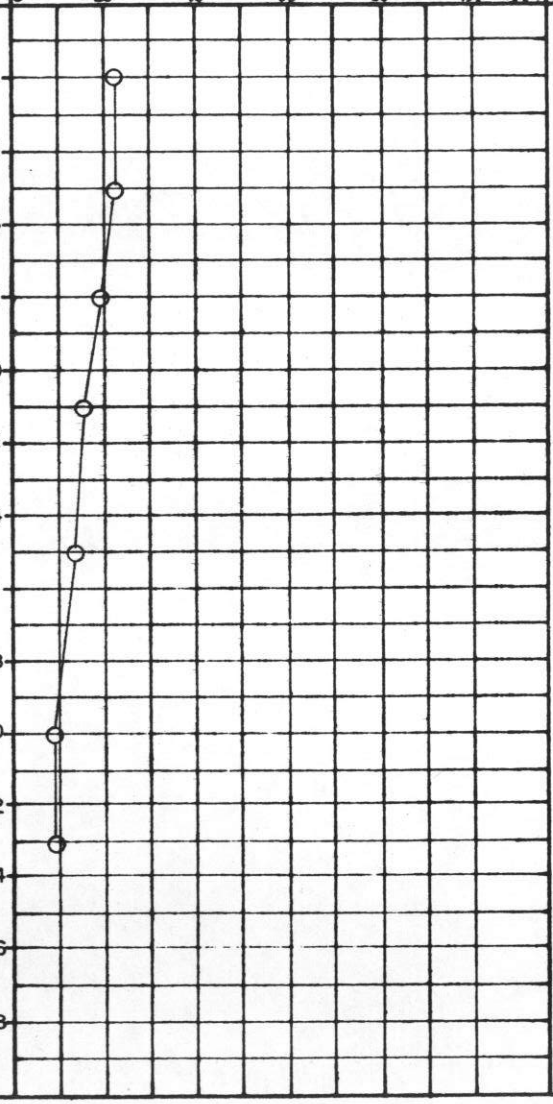
FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 17

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 1.5'		
4					CL CI	CLAY -Silty Sandy Low-med. plastic		Moderate Ice
6								
8						60% Shale	F	Vc - Vr
10								Low
12						Shale fragments		Ice
14								
16						Pebbles		Content
18								Vx
20						SHALE -Soft-med. hard Black — 19'		Nbn
22								
24						Soft		
26						25' BOTTOM OF HOLE - 25'		
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Wet	
				Moist	
				Moist	
				Damp	
				Damp	

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BORROW PIT 138

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 18

MILE 786.5

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
1'								
2						CLAY		Moderate
						-Silty		Ice
4						Sandy		
					CL	Pebbles		
6						Low-med. plastic		Vc - Vr
8					CI		F	Low
								Vx
10								
						60-70% Shale frags.		Ice
12								
13'								
14						SHALE		Nil
						-Hard		
16						Black		Ice
18								Content
20								
22								Nbn
24								
25'								
26						BOTTOM OF HOLE - 25'		
28								

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 60 20 80 40 100 60 120 80 140 100 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Damp
				Moist
				Moist
				Damp
				Wet
				Damp
				Damp

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 19

MILE 786.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.5'		Low
2					GC	GRAVEL-CLAY-SAND MIXTURE		Ice
4						— 5'		
6					CI	CLAY -Silty Sandy Pebbles Med. plastic		Content
8						— 9'		Vx
10						SHALE -Soft-med. hard	F	
12								
14								Frozen
16						Hard-black		Nbn
18								
20								
22								
24								
26						— 25'		
28						BOTTOM OF HOLE - 25'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Moist	
2						
4					Wet	
6						
8					Moist	
10					Damp	
12						
14					Damp	
16						
18						
20					Humid	
22					Damp	
24						
26						
28						

DS-14-5-74 b

BORROW PIT 139

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 3"	ELEV.

TEST HOLE 1

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
1.2'								
2						CLAY -Silty Sandy Pebbles Low-med. plastic		
6					CL			Low
8								
10					CI			Ice
12							F	Content
14								
16								Vx
18								
20								
22								
24								
26								
28								
30'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 139

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

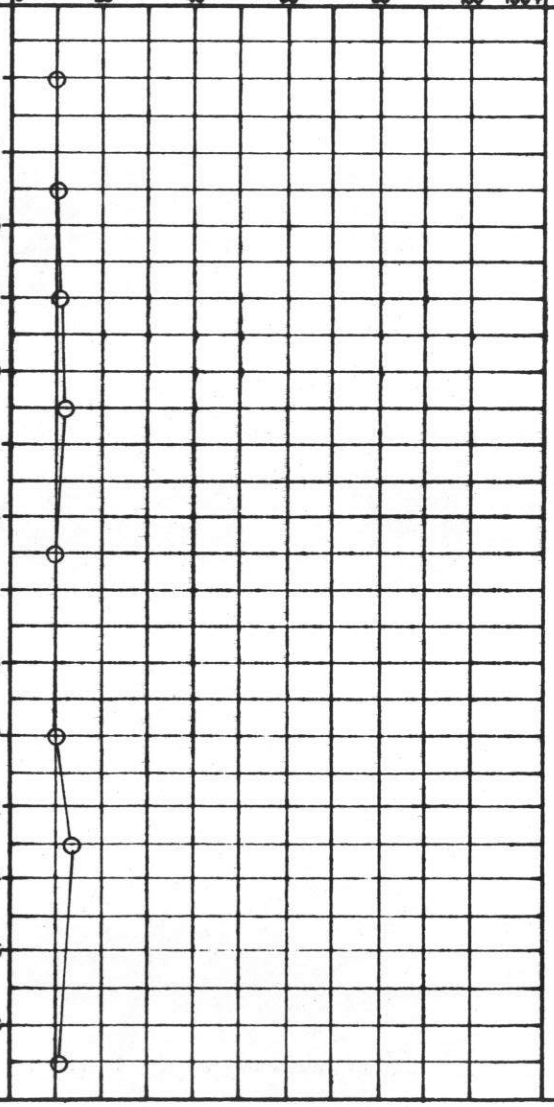
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 2
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 5"	ELEV.	MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					SC	SAND -Gravelly Clayey		
4						— 4'		Low
6						CLAY -Silty Sandy Gravelly Pebbles Low-med. plastic		Ice
8								Content
10					CL			
12							F	
14					CI			
16								Vx
18								
20								
22								
24								
26								
28								
						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Damp	
				Moist	
				Moist	
				Moist	
				Moist	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 139

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

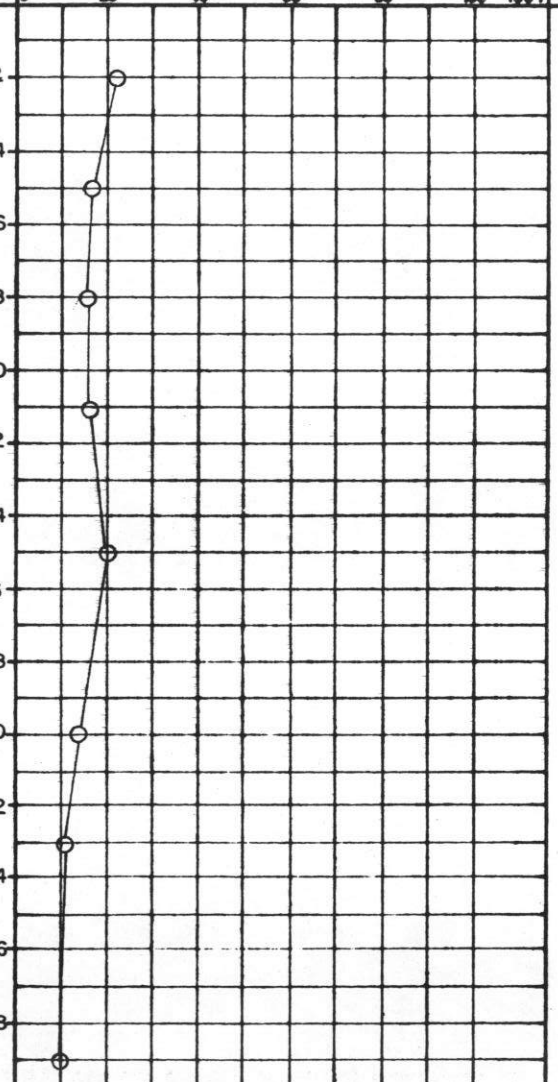
FIELD ENG. N. BURGESS	DATE DRILLED. 6/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE	ELEV.

TEST HOLE 3

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
1.3'								
2						CLAY -Silty Sandy Pebbles Low-med. plastic		Moderate
4								
6					CL			And
8								Low
10					CI		F	Ice
12								Content
14								
16								
18								Vc - Vr
20						Gravelly		
22								Vx
24								
26								
28								
30'								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4					Moist	
6						
8					Moist	
10					Moist	
12						
14						
16					Wet	
18						
20					Moist	
22						
24					Moist	
26						
28						
30'					Moist	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 139

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE - ALDER 3"	ELEV.

TEST HOLE 4

MILE 794

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT — 1.5'							
2						CLAY							Moist
4						-Silty		Low					
6					CL	Sandy Pebbles Low-med. plastic Gravelly							Moist
8								Ice					Moist
10					CI		F	Content					Moist
12													
14													Damp
16						Pebbles							
18								Vx					
20													Damp
22													
24													
26													Damp
28													
						30'							Damp

BOTTOM OF HOLE - 30'

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BORROW PIT 139

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 5
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 794

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'								
2						CLAY							Moist	
4						-Silty Sandy Pebbles Gravelly		No						
6					CL	Low-med. plastic		Visible					Damp	
8								Ice					Moist	
10							F							
12					CI			Nbn					Damp	
14														
16													Damp	
18														
20													Damp	
22														
24						GRAVEL-CLAY-SAND MIXTURE — 25'							Damp	
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 139

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

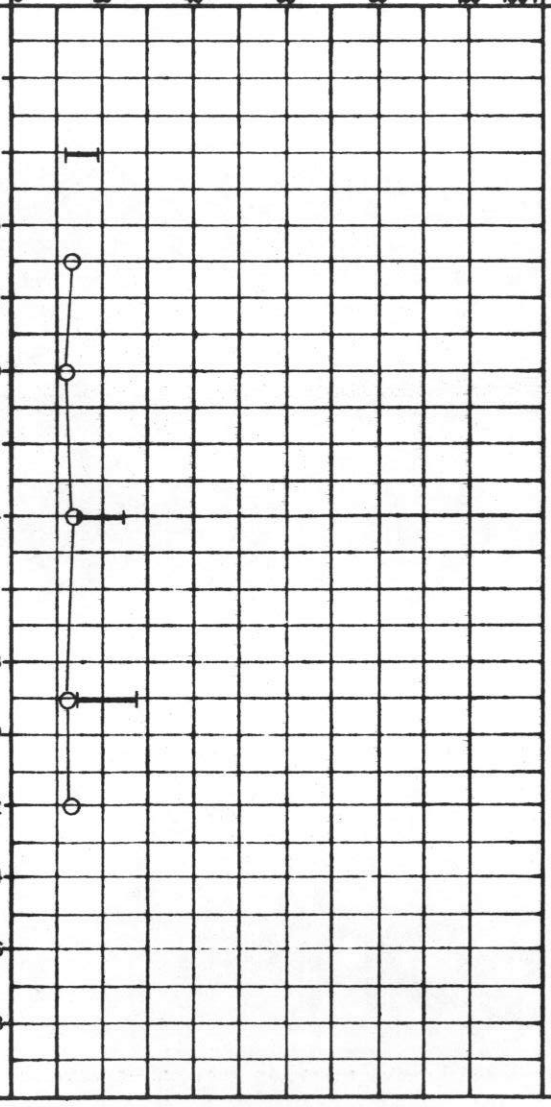
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 6

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2						CLAY -Silty Sandy Pebbles Low plastic		Low
4								
6					CL			Ice
8							F	
10								Content
12					CL			
14								Vx
16								
18								
20								
22								
24						23.5'		
26						BOTTOM OF HOLE - 23.5'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
				Moist
				Moist
				Moist
				Moist
				Moist

REMARKS

DS-14-5-74 b

BORROW PIT 139

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 7
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 794

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'								
2						CLAY -Gravelly Silty Sandy Low-med. plastic							Moist	
4								No						
6					CL								Moist	
8								Visible					Moist	
10								Ice						
12					GC	GRAVEL-CLAY-SAND MIXTURE	F	Nbn					Damp	
14													Moist	
16						CLAY -Silty Sandy Pebbles								
18														
20					CI								Moist	
22						Gravelly							Moist	
24														
25						25'								
26						BOTTOM OF HOLE - 25'								
28														

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BORROW PIT 139

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE 794

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT — 1'							
2						CLAY -Sandy Silty Pebbles Low-med. plastic		Low					Moist
4													Moist
6					CL			Ice					
8													Moist
10					CI	Gravelly	F						Damp
12													
14						Pebbles		Vx					Damp
16													
18													
20						Gravelly							Moist
22													Damp
24													
						25'							
26						BOTTOM OF HOLE - 25'							
28													

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

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BORROW PIT 139

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 9
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 794

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT		High Ice Vs					Moist	
						3'								
4					CL	CLAY -Org. mat. to 4' Silty Sandy Pebbles Low-med. plastic Gravelly		Low Ice Vx					Wet	
8													Moist	
10						GRAVEL-CLAY-SAND MIXTURE	F	No Visible					Moist	
14								Ice						
16					CI								Moist	
18								Nbn						
20													Moist	
22						CLAY -Silty sandy Gravelly								Moist	
24														
						25'								
26						BOTTOM OF HOLE - 25'								
28														

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BORROW PIT 139

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 10

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						1'		
2						CLAY -Silty Sandy Pebbles		Low
4								
6						GRAVEL-CLAY-SAND MIXTURE		To
8					CL	CLAY -Silty Sandy Pebbles Low-med. plastic	F	Nil
10								Ice
12								
14								Vx
16					CI	Gravelly		Nbn
18								
20								
22								
24								
						25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	40	60	80	100	120	140	100+
	0	20	40	60	80	100	

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL	RELATIVE THAWED MOISTURE CONTENT
	%	%	%	%	
2					Damp
4					
6					Moist
8					Moist
10					
12					Moist
14					
16					Moist
18					
20					Moist
22					
24					Damp
26					
28					

REMARKS

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 11

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT — 3"				
4						BOULDERS & COBBLES To 1'		Nbn	Damp	
6						CLAY -Silty Sandy		No	Damp	
8					CL	Gravelly Low-med. plastic		Visible Ice	Moist	
10							F	To		
12								Low	Damp	
14					CI			Ice		
16						Pebbles			Moist	
18										
20						Gravelly		Vx	Moist	
22										
24						Pebbles — 25'			Moist	
26						BOTTOM OF HOLE - 25'				
28										

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

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BORROW PIT 139

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DRILL HOLE REPORT

SITE: SECTION D

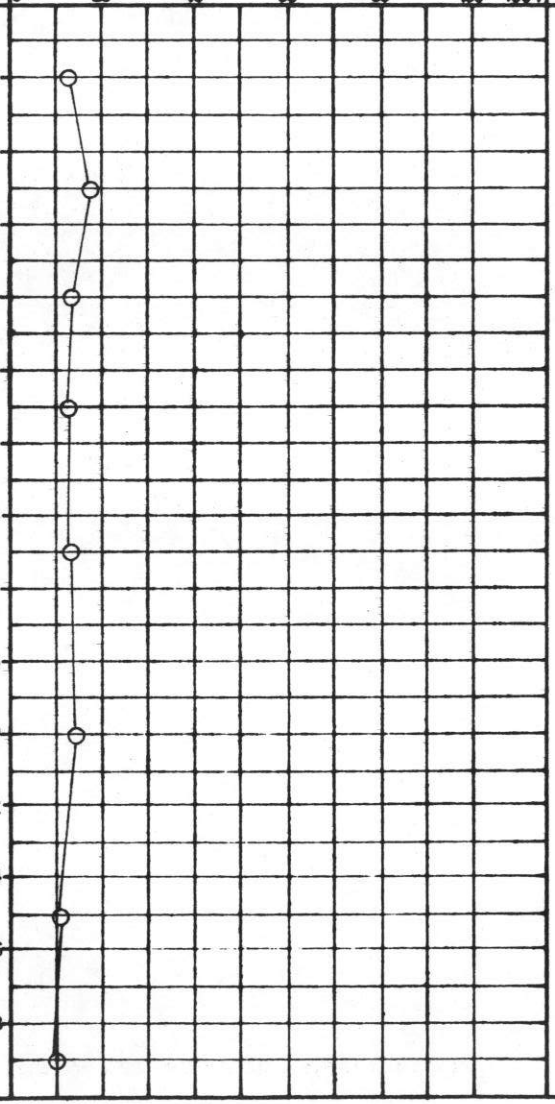
FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE - BIRCH	ELEV.

TEST HOLE 12

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1½'		
2						CLAY		Low
4						-Silty Sandy Pebbles		
6					CL	Low-med. plastic		Ice
8					CI			Content
10							F	
12								
14								Vx
16								
18								
20								
22								
24								
26								
28						29'		

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
6					Wet	
8					Moist	
10					Moist	
14					Moist	
20					Moist	
26					Damp	
28					Damp	

BOTTOM OF HOLE - 29'

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BORROW PIT 139

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 13

MILE 794

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.5'		
2						GRAVEL-SAND-CLAY MIXTURE		Low
4								
6						CLAY -Silty Sandy Gravelly Low plastic		Ice
8					CL		F	Vx
10								
12					CL			
14								Nil
16								Ice
18								Content
20								
22								Nbn
24								
26								
28						Pebbles — 29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Wet	
4					Wet	
6						
8					Moist	
10					Moist	
12						
14					Damp	
16						
18						
20					Damp	
22						
24						
26					Damp	
28						
					Damp	

BOTTOM OF HOLE - 29'

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BORROW PIT 140

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/3/74	AIRPHOTO NO.	CHAINAGE. 3146+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE - ALDERS	ELEV.

TEST HOLE 1

MILE 784

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT								
1'														
2						CLAY -Sandy Silty Pebbles Med. plastic		Moderate					Moist	
4								To					Wet	
6								Low						
8					CI		F	Ice					Moist	
10								Content					Moist	
12								Vc - Vr						
14						Shale fragments Med. hard		Vx					Moist	
16														
17'														
18						SHALE -Silty Med. hard		Frozen						
20													Damp	
22								Nbn						
24						Hard							Damp	
26														
28														
30'														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/3/74	AIRPHOTO NO.	CHAINAGE. 3146+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - BIRCH	ELEV.

TEST HOLE 2

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
2					Pt	PEAT — 1.5'		High	2
4					CI	CLAY -Sandy Silty Gravelly Med. plastic		Ice Vs	4
6									6
8						— 8'	F	Low	8
10						SHALE -Broken down Silty Soft-med. hard		Vx	10
12								To	12
14									14
16								Nil	16
18								Ice	18
20						Med. hard		Content	20
22									22
24								Nbn	24
26						— 25' BOTTOM OF HOLE - 25'			26
28									28

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140
0 20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Sat.	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 9/3/74 | AIRPHOTO NO. | CHAINAGE. 3146+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE - BIRCH | ELEV.

TEST HOLE 3

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.3'		Moderate
2						CLAY -Sandy Organic to 4' Silty Pebbles		Ice
4								
6					CL	Low-med. plastic Gravelly		Vc - Vr
8								
10					CI		F	Low
12								Ice
14								
16								Content
18								
20								Vx
						21'		
22						SHALE -Med. hard - hard		Frozen
24								Nbn
						25'		
26						BOTTOM OF HOLE - 25'		
28								

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4					Wet	
6						
8					Moist	
10					Moist	
12						
14						
16					Moist	
18						
20					Moist	
22					Moist	
24						
26						
28						

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3146+00	OFFSET.	TEST HOLE	4
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - BIRCH	ELEV.	MILE	784

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT — 1'									
2					CI	CLAY -Org. mat. to 4' Sandy Silty Med. plastic		Moderate And Low Ice Content	2					Moist	
4									4						
6									6					Moist	
8						— 8'			8					Wet	
10						SHALE -Silty Med. hard Soft-med. hard			10						
12									12					Wet	
14									14						
16						Soft		Vc - Vr	16					Moist	
18									18						
20						Med. hard			20					Moist	
22								Vx	22						
24						Sandstone chips			24					Damp	
						— 25'									
26						BOTTOM OF HOLE - 25'			26						
28									28						

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3146+00	OFFSET.	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - TAMARACK	ELEV.	TEST HOLE 5
					MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		High
2						CLAY		
4						-Organic mat. to 4'		To
6					CI	Sandy Silty Pebbles Med. plastic Gravelly		Vs
8						Shale frags., soft		Moderate Ice Content
10						— 10'	F	Vc - Vr
12						SHALE -Broken down Soft		
14								Low
16						Soft-med. hard		Ice
18								Content
20						Med. hard		
22								Vx
24								
25						— 25'		
26						BOTTOM OF HOLE - 25'		
28								

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Free Water	
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3146+00	OFFSET.	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - BIRCH 3"	ELEV.	TEST HOLE 6
					MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — .7'		
2						CLAY		Moderate
						-Sandy		
4						Silty		Ice
						Gravelly		
6					CL	Low-med. plastic		Vc - Vr
8					CI	Pebbles	F	
								Low
10								Ice
12								Content
14								
16						Gravelly		Vx
						Shale frags., hard		
18						— 18'		
						SHALE		Frozen
20						-Silty		
						Med. hard		
22								Nbn
24						Hard		
						— 25'		
26						BOTTOM OF HOLE - 25'		
28								

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Sat.	
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3146+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - BIRCH	ELEV.

TEST HOLE 7

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						.9'		
2						CLAY		Moderate
						-Sandy		
						Organic to 4'		Ice
4						Silty		
						Med. plastic		
6					CI	Small Shale frags.		Vc - Vr
8						8'		
						SHALE		
						-Silty		
10						Med. hard	F	Low
12						Soft-med. hard		Ice
14								
								Vx
16						Med. hard		
18								Nil
20								Ice
22								Content
24								Nbn
						25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140
0 20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

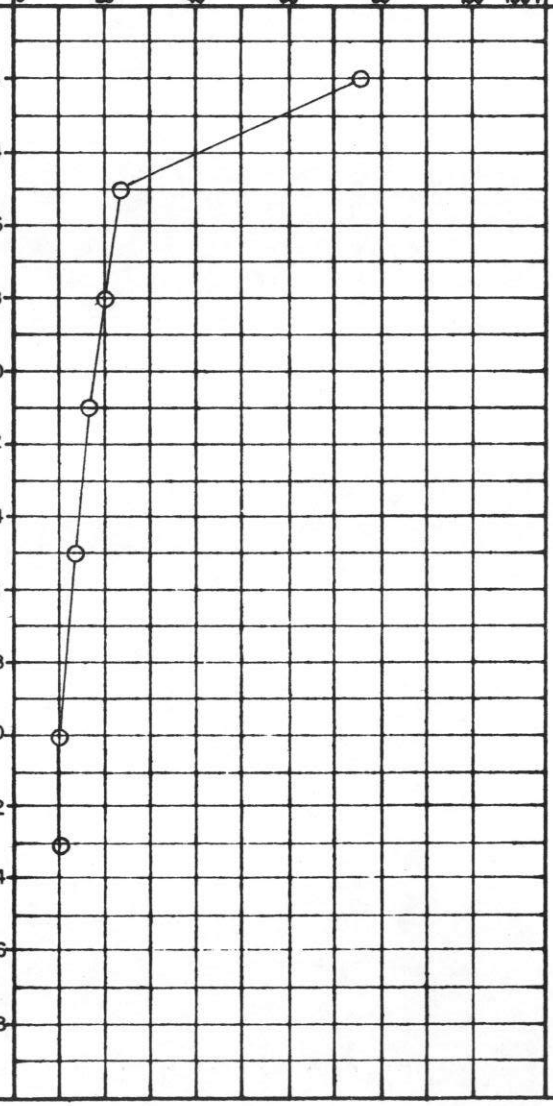
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3146+00	OFFSET.	TEST HOLE	8
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE	ELEV.	MILE	784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		High
2						CLAY		Vs
						-Org. mat. to 4'		
4					CI	Sandy		To
						Silty		
						Pebbles — 5'		Moderate
6						SHALE		Ice
						-Broken down		
8						Soft		Vc - Vr
						Pebbles		
10								Content
						— 11'	F	
12						CLAY		
						-Sandy		Low
14						Silty		
						Pebbles &		
16						Shale fragments		Ice
						Pebbles		
18					CL	Low-med. plastic		Content
					CI			
20								
22								Vx
24								
						— 25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Free Water
				Sat.
				Wet
				Moist
				Moist
				Moist
				Moist

REMARKS

DS-14-5-74 b

BORROW PIT 140

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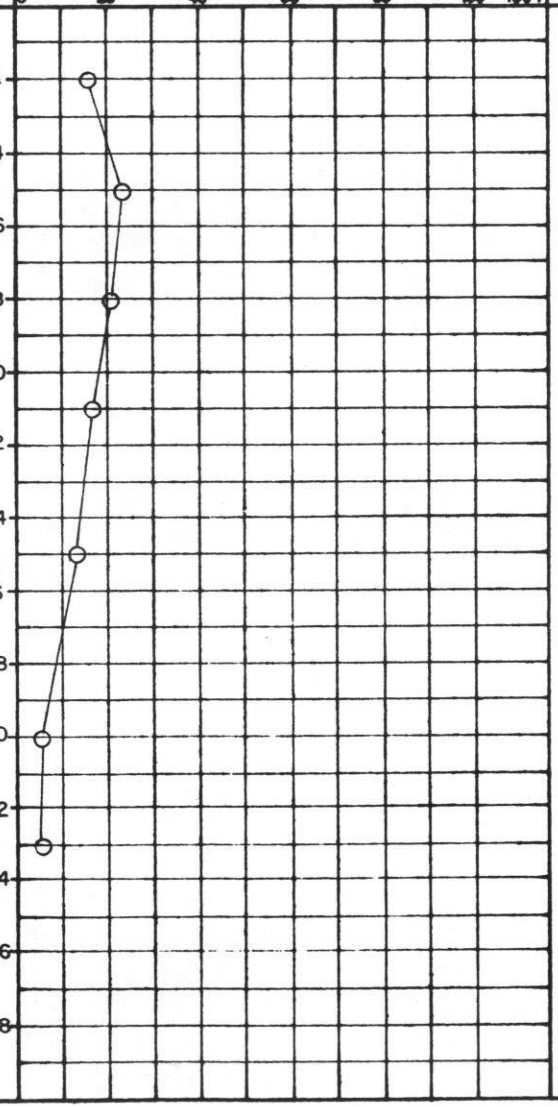
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3146+00	OFFSET.	TEST HOLE	9
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE - BIRCH	ELEV.	MILE	784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.3'		Moderate
2						CLAY		
4					CL	-Sandy Silty Shale fragments		To
6						— 5'		Low
8						SHALE -Ground down Soft - hard Clay silty		Ice
10							F	Vc - Vr
12								Content
14								Vx
16						SHALE -Hard - silty		
18								Frozen
20								Nbn
22								
24						— 25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0						
2					Moist	
4						
6					Wet	
8					Moist	
10					Moist	
12						
14					Moist	
16						
18						
20					Humid	
22					Humid	
24						
26						
28						

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BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. 3176+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE 5" - BIRCH | ELEV.

TEST HOLE 10

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .7'		Low
2					CL	CLAY -Sandy Silty Pebbles		Ice
4								Vx
						5'		
6						SHALE -Soft-med. hard	F	Vx
8						Med. hard - hard		Low
10								To
12								Nil
14								Ice
16						Soft		Content
18								
20						Soft-hard		
22								Nbn
24								
26								
28								
						30'		

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

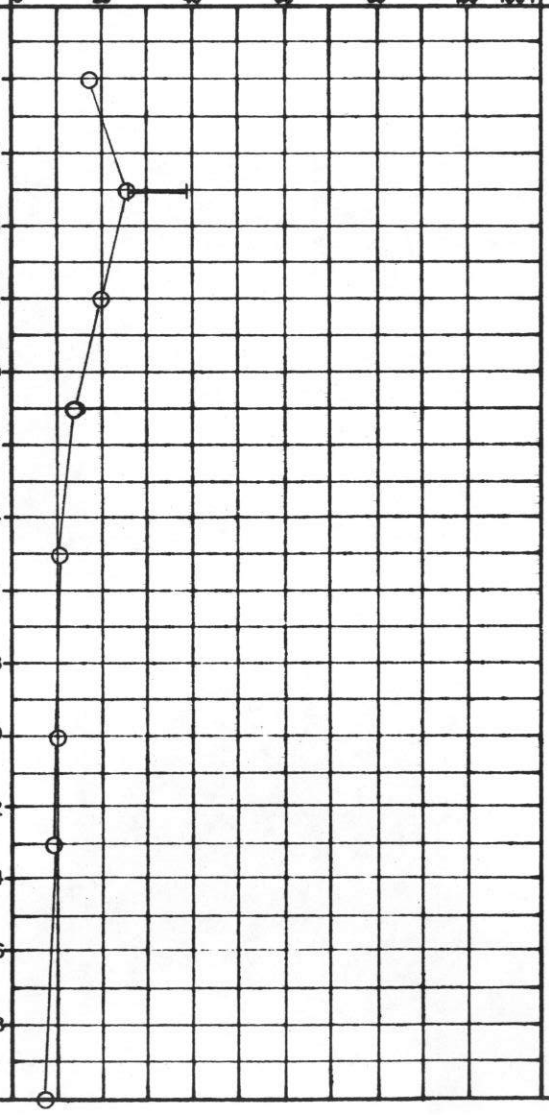
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3176+00	OFFSET.	TEST HOLE 11
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE 5" - BIRCH	ELEV.	MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .9'		Moderate
2						ORGANIC MATERIAL Shale fragments Soft		
4						4'		Ice
6					CL	CLAY -Sandy Silty		Vc - Vr
8								
10					CI	Shale fragments	F	Low
12						50-60% Shale		Ice
14						14'		
16						SHALE -Soft-hard		Content
18								
20						Med. hard - hard		Vx
22								
24								
26								
28						Hard		
						30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Humid	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3176+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 4"	ELEV.

TEST HOLE 12

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT		
						1.3'		
2						CLAY -Sandy Silty Pebbles		
4					CL	Low-med. plastic		
6								
8								
10							F	Moderate
12					CI			And
14								Low
16								Ice
18								Vc - Vr
20						CLAY -Silty		
22								Vx
						23'		
24						SHALE -Med. hard		Vx
26								Low
28								Ice
						Soft-med. hard 30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
6					Wet	
8					Moist	
12					Moist	
16					Moist	
20					Moist	
24					Humid	
30					Humid	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

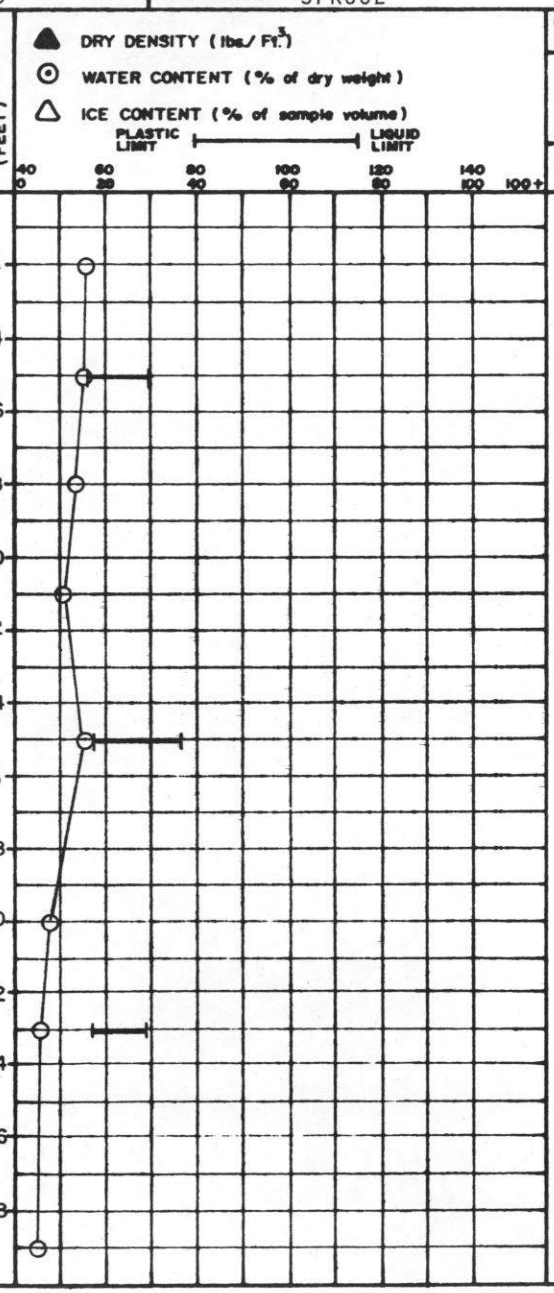
FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. 3176+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE | ELEV.

TEST HOLE 13

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .8'								
2						CLAY -Sandy Silty							Moist	
4								Low						
6						Pebbles							Moist	
8					CL	Low-med. plastic								
10					CI		F	Ice					Moist	
12													Damp	
14								Content						
16													Damp	
18								Vx						
						19'								
20						SHALE -Med. hard - hard		Frozen					Humid	
22														
24								Nbn					Humid	
26														
28														
						30'							Humid	



BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3176+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE & TAMARACK	ELEV.

TEST HOLE 14

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		High To
2					CL	CLAY -Silty Sandy Gravelly		Moderate Ice Content
4						— 5'		
6					SC	SAND -Clayey Silty		Vs
8						— 8'		Vc - Vr
10						SHALE -Hard	F	
12								Frozen
14								
16								Nbn
18								
20								
22								
24								
26								
28								
						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL	RELATIVE THAWED MOISTURE CONTENT
	%	%	%	%	
					Sat.
					Wet
					Moist
					Damp
					Damp
					Humid
					Damp
					Humid

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3176+00	OFFSET.	TEST HOLE 15
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE & TAMARACK	ELEV.	MILE 784

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT		Moderate Ice Content					Wet	
1.4'														
2					CI	CLAY -Sandy Silty Pebbles Med. plastic	F						Wet	
4														
6													Moist	
8						Shale fragments		Vc - Vr						
10													Damp	
11'														
12						SHALE -Hard		Frozen Nbn						
14													Damp	
16														
18														
20													Damp	
22													Damp	
24						Med. hard								
26														
28														
30'						Soft - hard							Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3176+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - BIRCH	ELEV.

TEST HOLE 16

MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
					Pt	PEAT .5'			
2						CLAY -Silty Sandy Pebbles Shale fragments 4'			2
4									4
6						SHALE -Soft-hard			6
8								Low	8
10							F	Ice	10
12								Content	12
14									14
16								Vx	16
18									18
20									20
22									22
24									24
26									26
28						30'			28

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140
0 20 40 60 80 100 109+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Moist
				Moist
				Moist
				Damp
				Damp
				Moist
				Damp

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3176+00	OFFSET.	TEST HOLE 17
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 7"	ELEV.	MILE 784

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT .8'		High							
2						CLAY		To	2					Moist	
						-Organic mat. to 4'									
4						Sandy		Moderate	4					Sat.	
					CL	Silty									
6						Low plastic		Ice	6						
								Vs							
8						8'		Vc - Vr	8					Wet	
						SHALE									
10						-Soft	F	Vx	10					Moist	
						Ground down									
12								Low	12						
								Ice							
14									14					Moist	
						Soft-hard									
16									16						
								Frozen							
18									18						
								Nbn							
20						Soft-med. hard			20					Damp	
22									22						
														Humid	
24									24						
26									26						
28									28						
						Soft - hard 30'								Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3176+00	OFFSET.	TEST HOLE 18
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - TAMARACK	ELEV.	MILE 784

DRY DENSITY (lbs./ Ft.^{3}) ▲ WATER CONTENT (% of dry weight) ⊙ ICE CONTENT (% of sample volume) △ PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .4'		Vc - Vr Moderate And Low Ice					Moist	
2					CL	CLAY -Sandy Silty Pebbles & Shale fragments Low plastic							Moist	
4														
6													Wet	
8														
10						10.5'	F	Vx					Damp	
12						SHALE -Soft-med hard								
14								Frozen					Damp	
16						Soft-hard								
18								Nbn						
20													Damp	
22													Damp	
24														
26														
28						30'							Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3176+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 4"	ELEV.

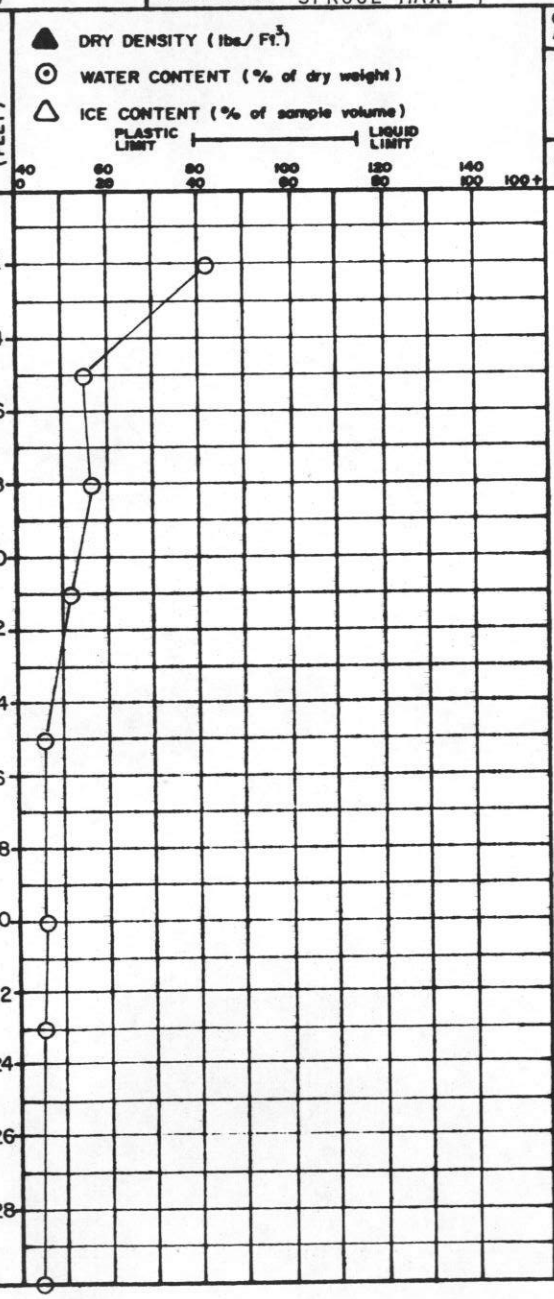
TEST HOLE 19

MILE 784

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High Ice
						.7'		
2					CL	CLAY -Sandy Silty		Vs
4					CI	Low-med. plastic		
						5'		
6						SHALE -Soft		Low Ice
8						Soft - hard		
10							F	Vx
12								
14								Nil
16						Hard		Ice
18								
20								Nbn
22						Soft - hard		
24						Med. hard		
26								
28								
						Med. hard - hard 30'		

BOTTOM OF HOLE - 30'



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Free Water
				Moist
				Moist
				Damp
				Humid
				Damp
				Humid
				Damp

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3176+00	OFFSET.	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 6"	ELEV.	TEST HOLE 20
					MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .8'		Moderate
2					CL	CLAY -Sandy Silty Pebbles		Ice
4					CI	Shale fragments		
6								
8						8'	F	Vc - Vr
10						SHALE -Ground down Very soft		
12								Low
14						Med. hard - hard		
16								Ice
18								
20								
22								Vx
24								
26								
28						30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Sat.	
2					Sat.	
4					Wet	
6					Moist	
8					Damp	
10					Humid	
12					Damp	
14					Moist	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 140

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

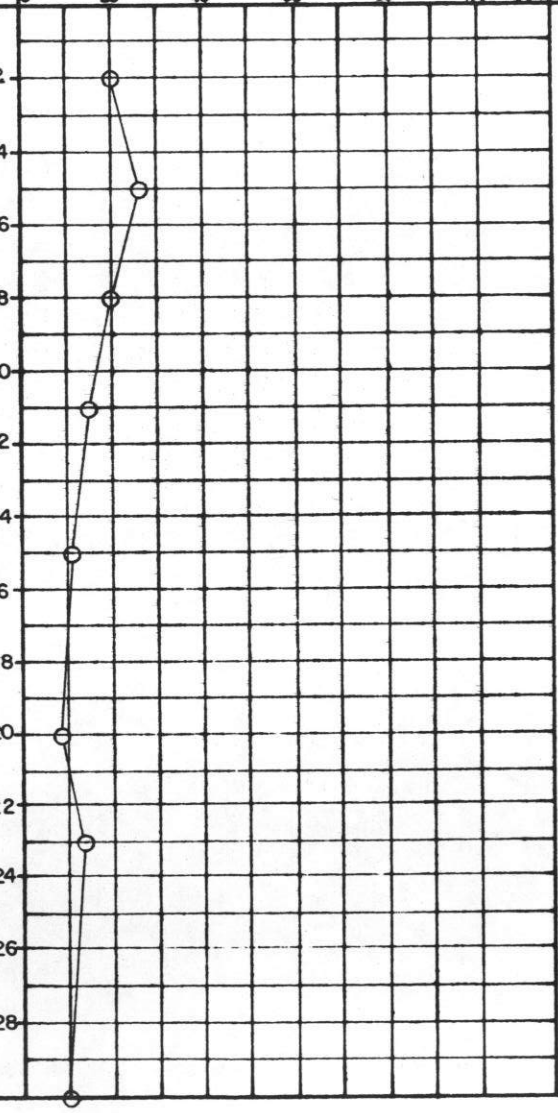
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3176+00	OFFSET.	TEST HOLE 21
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 7"	ELEV.	MILE 784

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .7'		
2						CLAY		Moderate
4					CL	-Sandy Silty Shale fragments 70%		Ice
6						60%		
8					CI	50%	F	Vc - Vr
10						11'		
12						SHALE -Very soft		Low
14								
16						Soft-hard		Ice
18								Vx
20								
22								
24								
26								
28						Hard 30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Sat.	
				Moist	
				Damp	
				Damp	
				Humid	
				Damp	
				Humid	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B. CONSTANT	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						CLAY - SILTY SANDY							MOIST	
4					Cl	LOW - MED. PLASTIC		LOW					MOIST	
6						PEBBLES		ICE						
8						GRAVELLY TO 25'							DAMP	
10					Ci		F	CONTENT					DAMP	
12														
14													MOIST	
16								Vx						
18														
20													MOIST	
22													MOIST	
24														
26														
28														

DEPTH (FEET) — DRY DENSITY (lbs./ Ft.^{3}) ▲ — WATER CONTENT (% of dry weight) ⊙ — ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160+

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B. CONSTANT	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT .5'							
2						CLAY - SANDY SILTY PEBBLES							MOIST
4						MED. PLASTIC							MOIST
6					Ci								
8								LOW					DAMP
10						SILTSTONE-SANDSTONE SOFT - FRAGMENTS	F	ICE					DAMP
12								Vx					
14						15'							DAMP
16						SHALE - SILTSTONE - SANDSTONE SOFT		FROZEN					
18													
20						SOFT - MED. HARD		Nbη					DAMP
22													DAMP
24													
26													
28													

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B. CONSTANT	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 3

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Pt	PEAT	F	HIGH ICE Vs					FREE WATER
4						CLAY - SANDY SILTY LOW - MED. PLASTIC							SAT.
6					Cl								
8						GRAVELLY		LOW					MOIST
10					Ci								DAMP
12								ICE					
14						SILTSTONE-SANDSTONE SHALE FRAGMENTS							MOIST
16								CONTENT					
18													
20								Vx					DAMP
22													DAMP
24													
26													
28													

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT | DATE DRILLED. 9/3/74 | AIRPHOTO NO. | CHAINAGE. 3044 + 00 | OFFSET.

TECH. BAINE | RIG. Mayhew #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

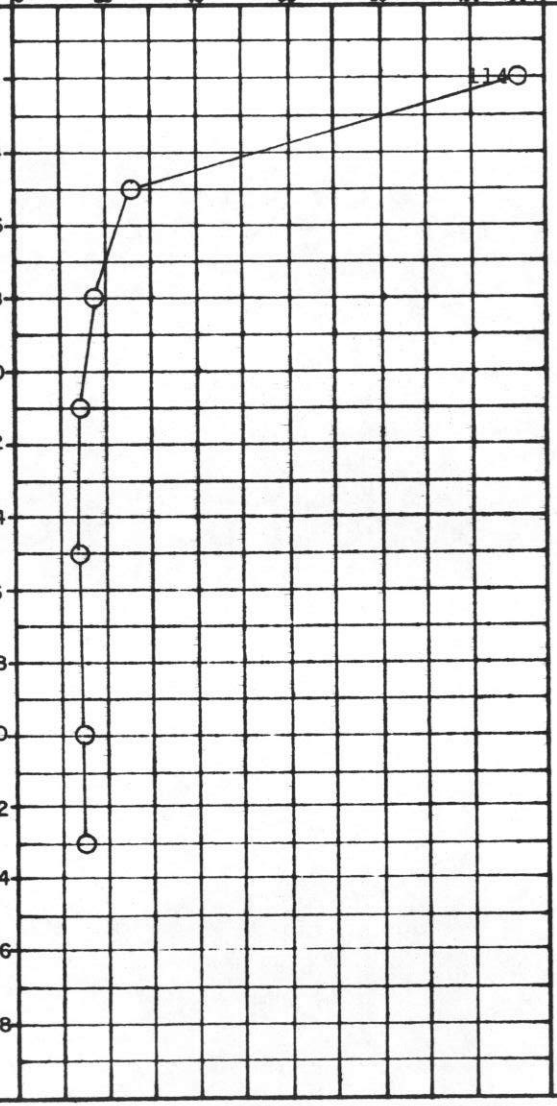
TEST HOLE 4

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2					Ml	SILT - SANDY GRAVELLY ORGANIC 4'		HIGH ICE
4								
6					Cl	CLAY - SILTY SANDY PEBBLES LOW - MED. PLASTIC		LOW ICE
8						SHALE FRAGMENTS HARD SANDSTONE CHIPS TO 23'	F	
10								
12					Ci			CONTENT
14								
16								
18								Vx
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				FREE WATER
				SAT.
				MOIST
				MOIST
				MOIST
				MOIST
				DAMP

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT | DATE DRILLED. 9/3/74 | AIRPHOTO NO. | CHAINAGE. 3044 + 00 | OFFSET.

TECH. BAINE | RIG. Mayhew #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 5

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1.5'		MODERATE ICE					WET
2													
4						CLAY - SANDY SILTY PEBBLES		Vc - Vr					SAT.
6						MED. PLASTIC							
8					Ci		F	LOW					MOIST
10													MOIST
12								ICE					
14													MOIST
16								Vx					
18													
20													DAMP
22													DAMP
24													
26													
28													

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

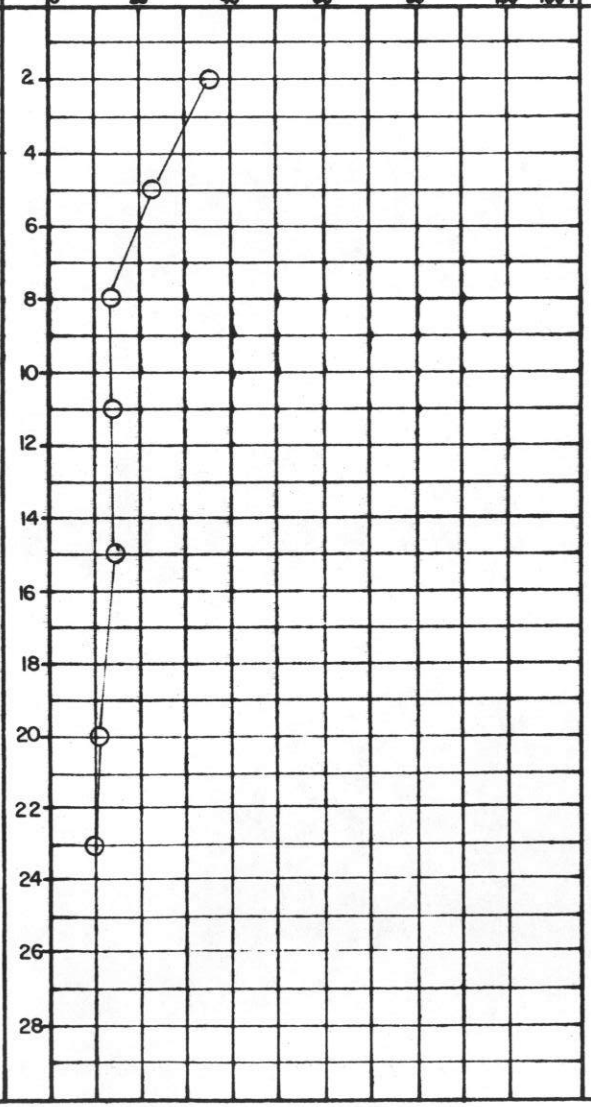
TEST HOLE 6

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		HIGH ICE Vs
2						2'		
4						CLAY - SILTY SANDY PEBBLES MED. PLASTIC		
6								LOW ICE
8					Ci	SHALE FRAGMENTS HARD		
10							F	
12								CONTENT
14						SILTSTONE & SHALE FRAGMENTS		
16								Vx
18								
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				FREE WATER
				WET
				MOIST
				DAMP
				MOIST
				DAMP
				DAMP

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 7

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'							
2						CLAY - SILTY SANDY GRAVELLY LOW - MED. PLASTIC		MODERATE ICE Vc - Vr					SAT.
4					Cl	PEBBLES							MOIST
6													
8					Ci			LOW					MOIST
10							F						MOIST
12						SHALE FRAGMENTS HARD		ICE					
14													MOIST
16								CONTENT					
18													
20								Vx					MOIST
22													MOIST
24													
26													
28													

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT		HIGH ICE Vs					FREE WATER
2						2'							
4					Cl	CLAY - SANDY SILTY GRAVELLY LOW - MED. PLASTIC PEBBLES		ICE MODERATE Vc - Vr					WET
6													
8					Ci								MOIST
10						SANDY SILTY	F						MOIST
12						SILT & SANDSTONE FRAGMENTS		LOW ICE CONTENT					
14						PEBBLES							DAMP
16													
18													
20								Vx					DAMP
22						23'							DAMP
24						SHALE - SILTSTONE SANDSTONE - MED. HARD							
26													
28													

DS-14-5-74 b

BOTTOM OF HOLE - 25'

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B.CONSTANT	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 9

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT .8'							
2						CLAY - SANDY SILTY		MODERATE ICE					WET
4						LOW - MED. PLASTIC		Vc - Vr					MOIST
6					Cl	PEBBLES							MOIST
8							F	LOW					MOIST
10													MOIST
12													
14					Ci	GRAVELLY		ICE					DAMP
16													
18								Vx					
20													MOIST
22													MOIST
24													
26													
28													DAMP

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B. CONSTANT | DATE DRILLED. 12/3/74 | AIRPHOTO NO. | CHAINAGE. 3044 + 00 | OFFSET.

TECH. JOHNSON | RIG. Mayhew #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 10

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT 1'							
2						CLAY - SILTY SANDY PEBBLES							MOIST
4					Cl	LOW - MED. PLASTIC		LOW					MOIST
6													
8					Ci	SANDSTONE CHIPS							DAMP
10							F						DAMP
12						SHALE & SILTSTONE FRAGMENTS - SOFT		ICE					
14						15'							DAMP
16						SHALE - BROKEN DOWN SOFT		Vx					
18													
20													DAMP
22						SHALE - SANDSTONE LAYERED - SOFT							DAMP
24													
26													
28													

DS-14-5-74 b

BOTTOM OF HOLE - 30'

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. B. CONSTANT | DATE DRILLED. 12/3/74 | AIRPHOTO NO. | CHAINAGE. 3044 + 00 | OFFSET.

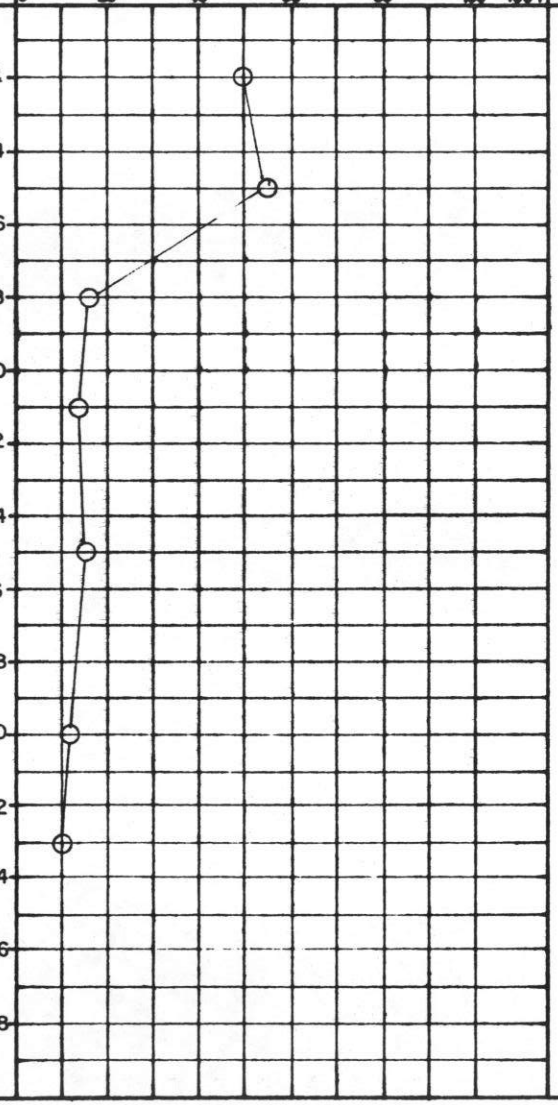
TECH. JOHNSON | RIG. Mayhew #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 11

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		HIGH
4						CLAY - SANDY SILTY GRAVELLY PEBBLES		ICE
6					Cl	LOW - MED. PLASTIC		Vs
8								
10						SANDSTONE CHIPS	F	
12					Ci			LOW
14								
16								ICE
18								
20						SHALE - SANDSTONE SILTSTONE CHIPS		Vx
22						23'		
24						SHALE - SANDSTONE - SILTSTONE LAYERED		Nbη
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				FREE WATER	
				FREE WATER	
				MOIST	
				DAMP	
				DAMP	
				DAMP	
				DAMP	

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 12

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 1'								
2						CLAY - SANDY SILTY PEBBLES							MOIST	
4					Cl	LOW - MED. PLASTIC GRAVELLY							MOIST	
6								LOW						
8					Ci	PEBBLES	F						MOIST	
10														
12						SHALE - SANDSTONE CHIPS - SOFT		ICE					DAMP	
14						15'								
16						SHALE - SILTSTONE - SANDSTONE - SOFT		Vx					DAMP	
18														
20													DAMP	
22						SOFT - MED. HARD							DAMP	
24														
26														
28														

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 13

MILE

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT 1'							
2						CLAY - SANDY SILTY							MOIST
4					Cl	LOW - MED. PLASTIC PEBBLES							MOIST
6													
8							F	LOW					MOIST
10													DAMP
12					Ci			ICE					
14													DAMP
16						SANDSTONE CHIPS		Vx					
18													
20													DAMP
22						SHALE FRAGMENTS 50 - 60%							DAMP
24													
26													
28													

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.	TEST HOLE 14
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 1'				
2					Cl	CLAY - SILTY SANDY PEBBLES			MOIST	
4					Cl	LOW - MED. PLASTIC			MOIST	
6								LOW		
8					Ci	SILTSTONE - SANDSTONE CHIPS - SOFT	F		DAMP	
10						11'		ICE	DAMP	
12						SHALE - SILTSTONE SANDSTONE SOFT				
14									DAMP	
16								Vx		
18										
20									DAMP	
22									DAMP	
24										
26										
28										

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 141

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3044 + 00	OFFSET.
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 15

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY - SANDY SILTY PEBBLES		MODERATE ICE
4					Cl	LOW - MED. PLASTIC		Vc - Vr
6								
8					Ci		F	LOW
10						SILTSTONE - SANDSTONE SOFT - MED. HARD		
12								ICE
14						15'		
16						SHALE - SILTSTONE - SANDSTONE SOFT - BROKEN DOWN		
18								
20								Vx
22								
24								
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				SAT.	
				WET	
				MOIST	
				DAMP	
				DAMP	
				DAMP	
				DAMP	

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 10/3/74 | AIRPHOTO NO. | CHAINAGE. 2990+00 | OFFSET.

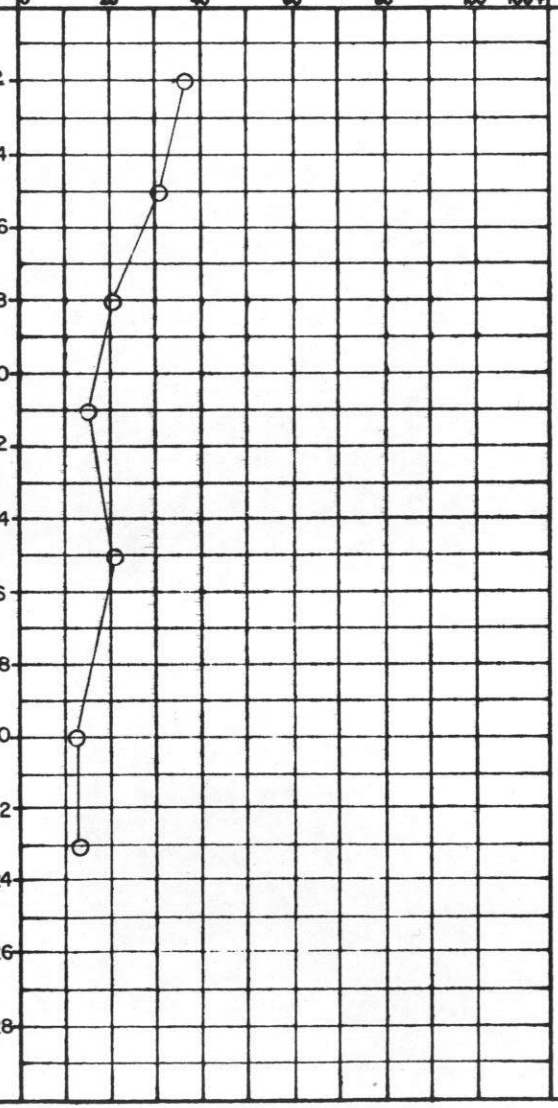
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT		
						1.5'		High
2						CLAY		Ice
4						-Sandy		
						Silty		
6					CL	Pebbles		Vs
						Low-med. plastic		
8					CI		F	
								Moderate
10								To
12								Low
14								Ice
						15'		
16						SILT		Content
						-Sandy		
18					ML	Clayey		Vc - Vr
20						20'		
						CLAY		
22						-Sandy		Vx
						Silty		
24						Pebbles		
						Sandstone fragments		
26						25'		
						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Sat.	
				Wet	
				Moist	
				Moist	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

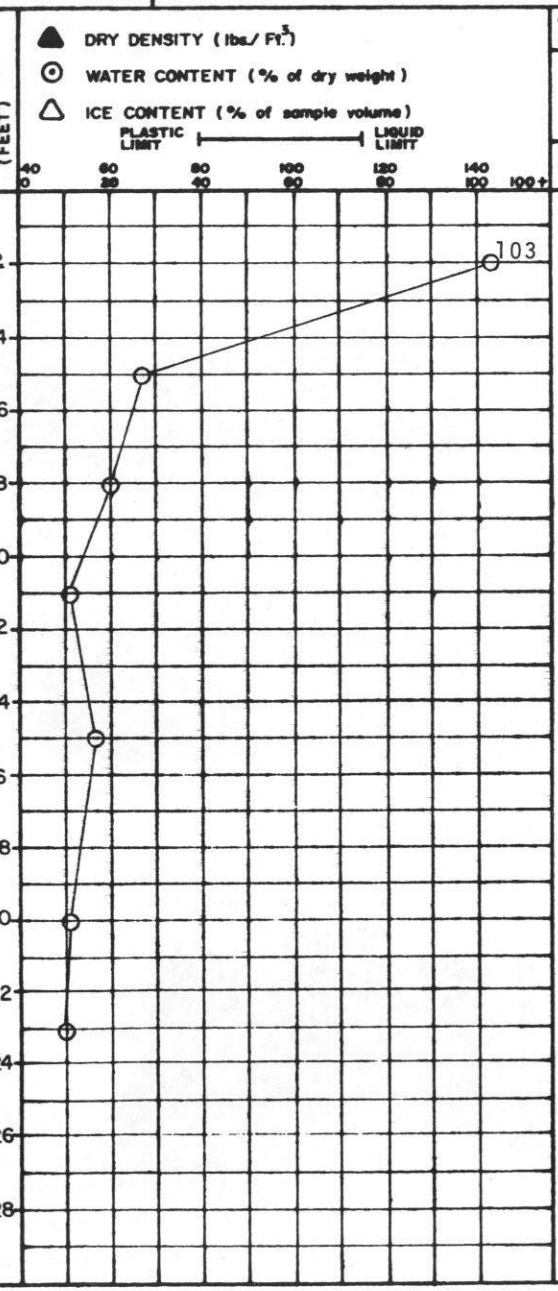
SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High
2						2'		Ice
4						CLAY -Sandy Silty Pebbles Med. plastic		
6								Moderate
8					CI		F	Ice
10								Vc - Vr
12						Sandstone & Siltstone fragments Soft		Low
14								Ice
16								Content
18								
20								Vx
22						21'		
24						SHALE -Soft		
26						25'		
28						BOTTOM OF HOLE - 25'		



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Free Water
				Wet
				Moist
				Damp
				Damp
				Damp
				Damp

REMARKS

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

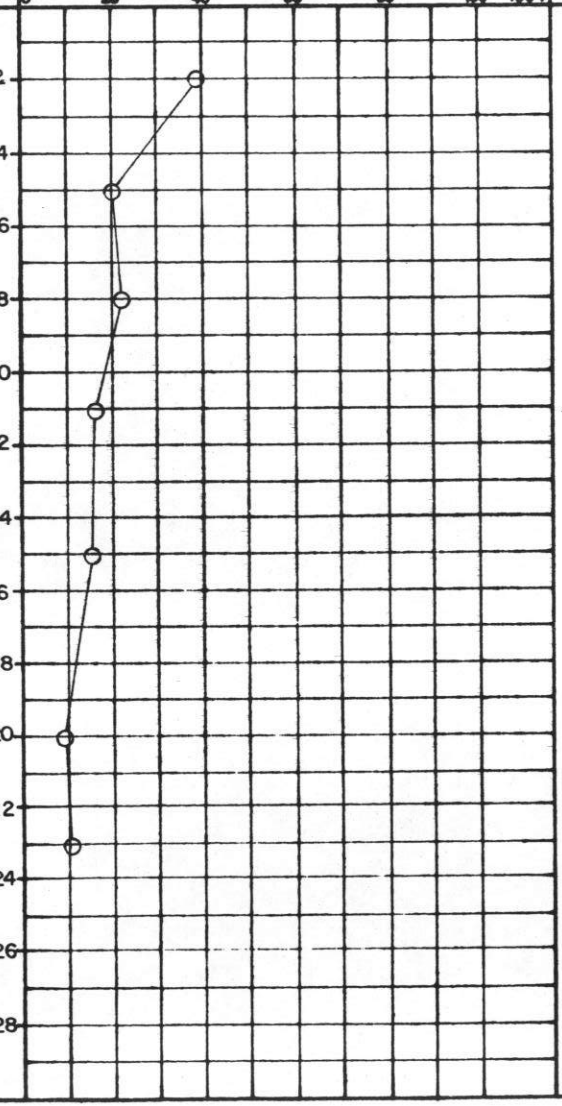
TEST HOLE 3

MILE 781

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		High
2						CLAY -Sandy Silty Med. plastic		Ice
4								Vs
6						Pebbles		Moderate Ice
8					CI		F	Vc - Vr
10								
12								
14								
16								Vx
18								Low
20						20'		
22						SHALE -Soft		Ice
24								Content
						25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Sat.
				Sat.
				Wet
				Moist
				Moist
				Damp
				Damp

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 781

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'		Moderate Ice					Moist	
2						CLAY -Sandy Silty Pebbles Med. plastic								
4													Wet	
6								Vc - Vr						
8					CI								Moist	
10							F						Moist	
12								Low Ice						
14													Damp	
16														
18								Vx						
20						50% Shale fragments							Damp	
						— 21'								
22						SHALE -Soft							Damp	
24														
						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

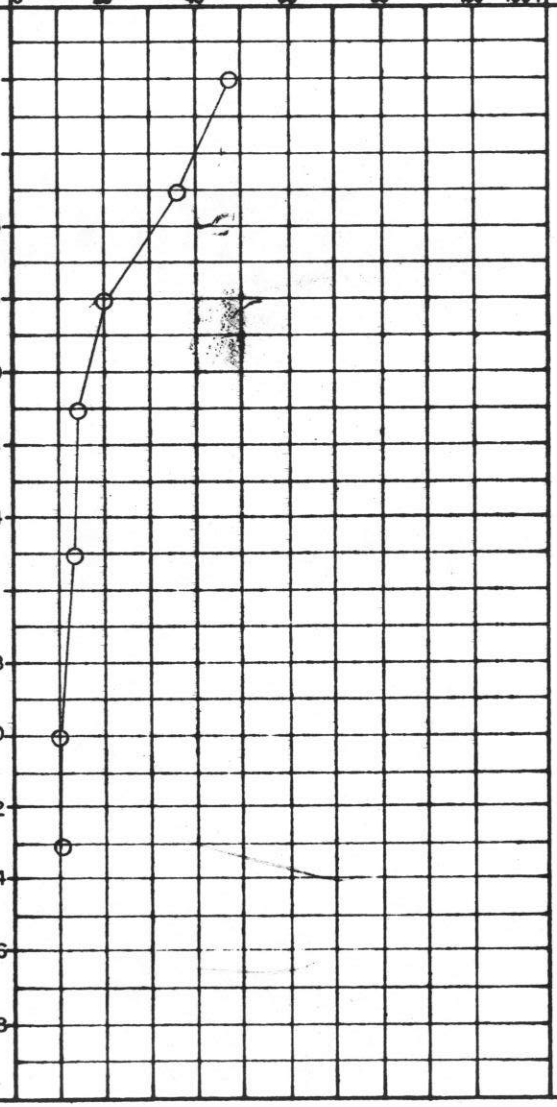
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.	TEST HOLE 5
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High
2						2'		Ice
						SILT-Sandy, clayey Pebbles, organic		
4						4'		Vs
6						CLAY -Sandy Silty Low-med. plastic		Moderate
8					CL		F	Ice
10					CI	Pebbles Shale fragments Sandstone fragments		Vc - Vr
12								Low
14								Ice
16								Content
18						18'		Vx
20						SHALE -Soft-med. hard		Frozen
22								Nbn
24								
26						25'		
28						BOTTOM OF HOLE - 25'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Sat.	
				Wet	
				Moist	
				Moist	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 6

MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High Ice
2						2'		
4					CL	CLAY -Sandy Silty Pebbles Low-med. plastic	F	Vs Moderate Ice
6								
8					CI			Vc - Vr
10								
12								Vx Low Ice Content
14								
15						15'		
16					SC	SAND -Clayey silty Pebbles		
17						17'		
18						SHALE -Soft		Frozen Nbn
20								
22								
24								
25						25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+
0 20 40 60 80 100 120

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

DEPTH (FEET)	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2	Free Water	
4		
6	Wet	
8	Wet	
10		
12	Moist	
14		
16	Moist	
18		
20	Damp	
22		
24	Damp	
26		
28		

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.	TEST HOLE	7
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE	781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		High Ice Vs
2						CLAY -Sandy Silty Med. plastic Pebbles		
4								Moderate Ice
6								
8					CI			Vc - Vr
10							F	
12								Low Ice Content
14								
16								
18								
20						— 20'		
22						SHALE -Soft		Vx
24						— 25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Wet	
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.	TEST HOLE 8
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 781

DRY DENSITY (lbs./ Ft.^{3}) ▲ WATER CONTENT (% of dry weight) ⊙ ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT		High Ice					Free Water	
						2'								
4					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		Vs					Sat.	
6														
8							F						Sat.	
10					CI			Low Ice Content					Moist	
12														
14													Moist	
16						Shale fragments Soft								
						17'								
18						SHALE -Soft								
20								Vx					Damp	
22													Damp	
24														
						25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.	TEST HOLE 9
TECH. JOHNSON	RIG. MAYHEW-#2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 781

DRY DENSITY (lbs./ Ft.^{3}) ▲ WATER CONTENT (% of dry weight) ⊙ ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'		Moderate Ice Content	0						
2					CL	CLAY -Sandy Silty Low-med. plastic		Vc - Vr	2					Sat.	
4									4						
6							F		6					Wet	
8					CI			Low Ice Content	8					Moist	
10									10					Moist	
12									12						
14						25% soft Shale fragments			14					Damp	
16								Vx	16						
18						— 18'			18						
20						SHALE -Soft		Frozen Nbn	20					Humid	
22									22					Humid	
24						— 25'			24						
26						BOTTOM OF HOLE - 25'			26						
28									28						

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/3/74	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.	TEST HOLE 10
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
2					Pt	PEAT — 2'	F	High Ice Vs	2
4						CLAY -Sandy Silty Organic mat. to 4'		Moderate Ice	4
6					CL	Pebbles Med. plastic			6
8					CI			Vc - Vr	8
10								Low Ice	10
12									12
14								Vx	14
16									16
18									18
20									20
22									22
24									24
26						25' — BOTTOM OF HOLE - 25'			26
28									28

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Wet	
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED.	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.	TEST HOLE 11
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Moderate Ice
						2'		
4						CLAY -Sandy Silty Pebbles Low-med. plastic		Vc - Vr
6								
8					CL		F	
10					CI			Low Ice
12								
14						Shale fragments Soft		
16						16'		
18						SHALE -Soft		Vx
20								
22								
24						Soft-med. hard		
26						25'		
28						BOTTOM OF HOLE - 25'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Sat.	
4					Sat.	
6						
8					Moist	
10					Moist	
12						
14					Moist	
16						
18						
20					Damp	
22						
24					Damp	
26						
28						

DS-14-5-74 b

BORROW PIT 142

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

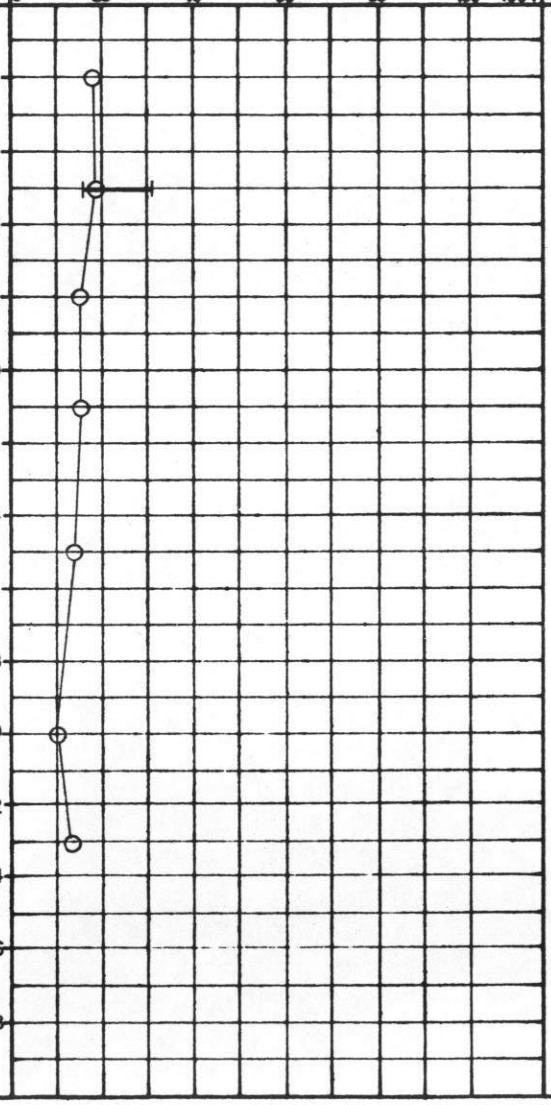
FIELD ENG. N. BURGESS	DATE DRILLED. 10/3/74	AIRPHOTO NO.	CHAINAGE. 2990+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 12

MILE 781

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.5'		
2						CLAY -Sandy Silty Pebbles Med. plastic		Low
4								
6								
8					CI			Ice
10							F	Content
12								
14								
16								
18								
20								Vx
22								
24								
25						— 25'		
26						BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Wet	
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 143

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

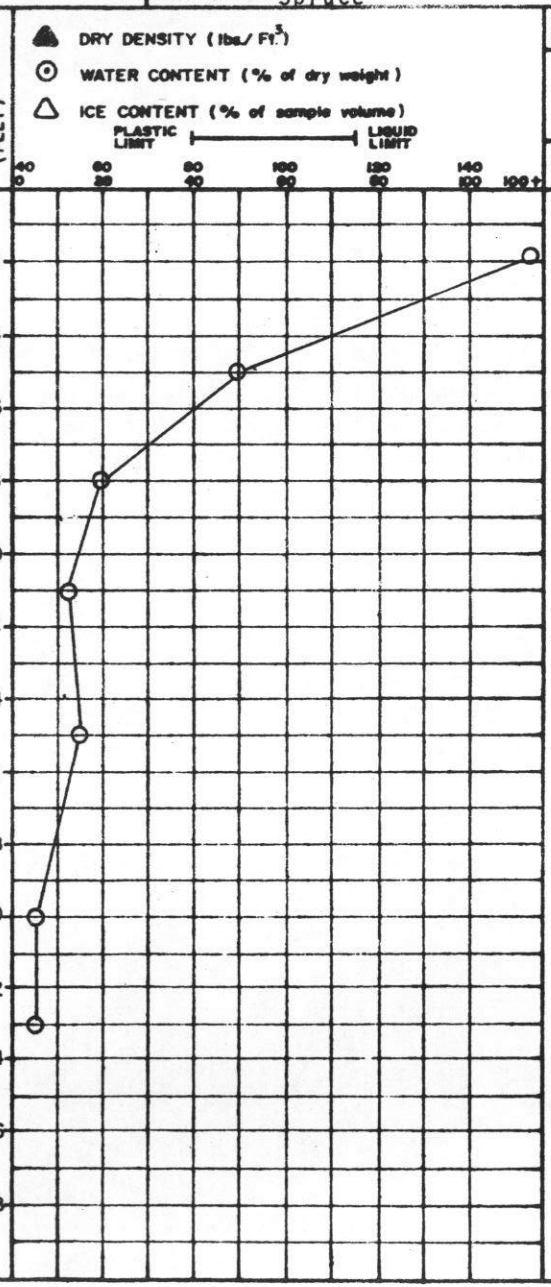
FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Level | VEGETATION. Spruce | ELEV.

TEST HOLE 1

MILE 784.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2								High
4					Pt	PEAT 4'		Ice
6					CL	Clay - Sandy - Silty Low-Med. Plastic Pebbles		Vs
8							F	Moderate
10					Cl	Gravel - Clay - Sand Mix		To
12								Low
14						Clay - Silty Sandy Gravelly		Ice
16						16' Shale - Siltstone Hard		Content
18								
20								Vc - Vr
22								
24						BOTTOM OF HOLE 25'		VX
26								
28								



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT
Moist
Free Water
Sat.
Wet
Wet
Humid
Humid

REMARKS

B074

DS-14-5-74 b

BORROW PIT 143

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Level | VEGETATION. Spruce - Tamarack | ELEV.

TEST HOLE 2

MILE 784.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2								High Ice Vs
4					Pt	PEAT 4.5'		VX
6					CL	Clay - Sandy - Silty Low - Med. Plastic		Low
8					Cl			To
10						10.5'		Nil
12						Shale - Silty Med.Hard - Hard		
14						Hard		Ice
16								
18								Content
20								Nbn
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Moist	
				Damp	
				Moist	
				Damp	
				Humid	
				Humid	
				Humid	
				Humid	

B074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

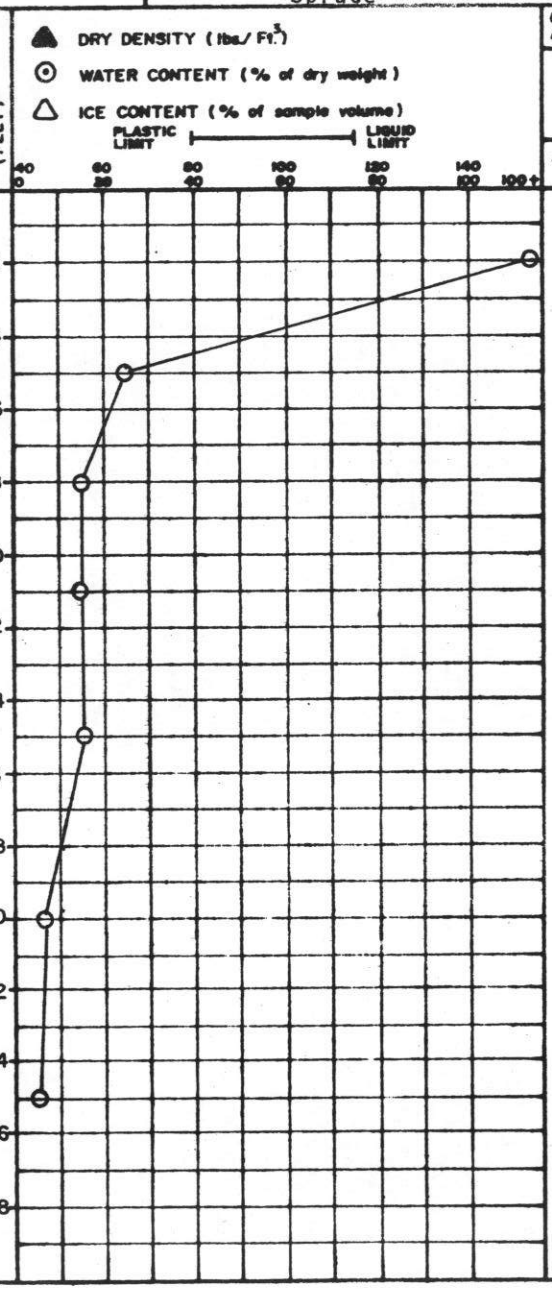
DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 3

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Level | VEGETATION. Spruce | ELEV. | MILE 784.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2								High Ice Vs
4					Pt	PEAT 4.5'		
6						Clay - Silty - Sandy - Pebbles		Moderate
8					CL	Gravel - Clay - Sand Mix		
10						Clay - Silty Sandy		
12					Cl	Shale Fragments		Ice Vc - Vr
14						Gravelly 15.5'		
16						Shale - Soft-Hard		Frozen
18								
20								Nbn
22								
24						Hard		
26								
28						BOTTOM OF HOLE 29'		



GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Water	
				Sat.	
				Wet	
				Wet	
				Moist	
				Damp	
				Humid	

B074

DS-14-5-74 b

BORROW PIT 143

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

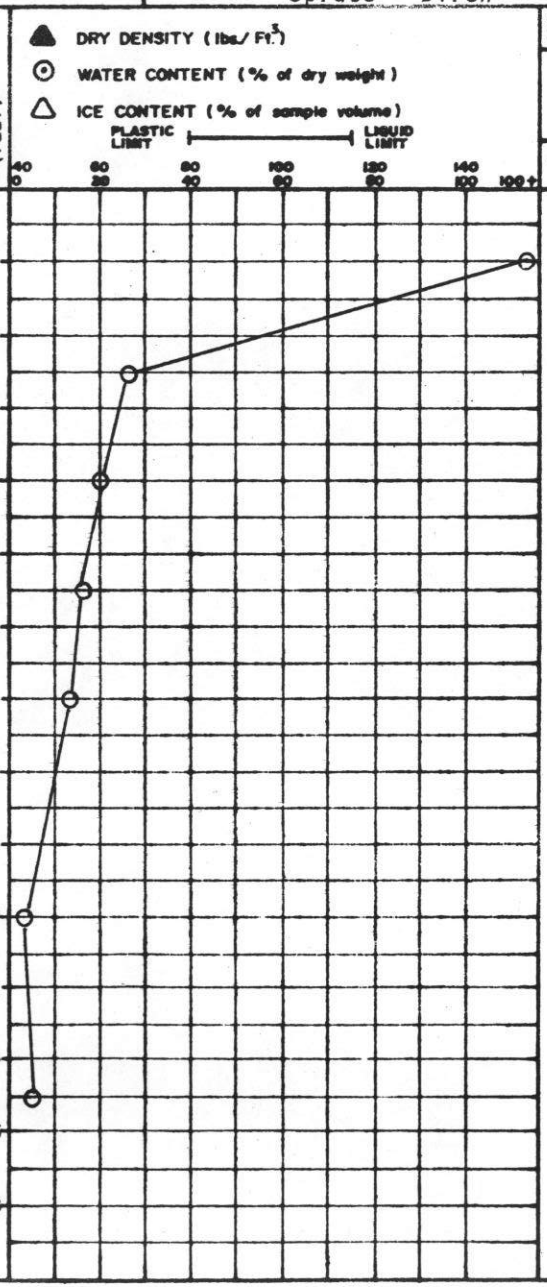
FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Level | VEGETATION. Spruce - Birch | ELEV.

TEST HOLE 4

MILE 784.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 3.5'		High Ice
4						Clay - Silty - Sandy - Pebbles		Vs
6					CL	Low - Med. Plastic		Moderate
8					Cl			
10						Gravel - Clay - Sand Mix F		Ice
12								Vc - Vr
14						Clay - Silty Sandy		
16						50% Shale 16' Fragments		
18						Shale - Hard		Nil Ice
20								Content
22								
24								Nbn
26								
28						BOTTOM OF HOLE 25'		



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT	REMARKS
Moist	
Sat.	
Wet	
Wet	
Wet	
Humid	
Humid	

8074

DS-14-5-74 b

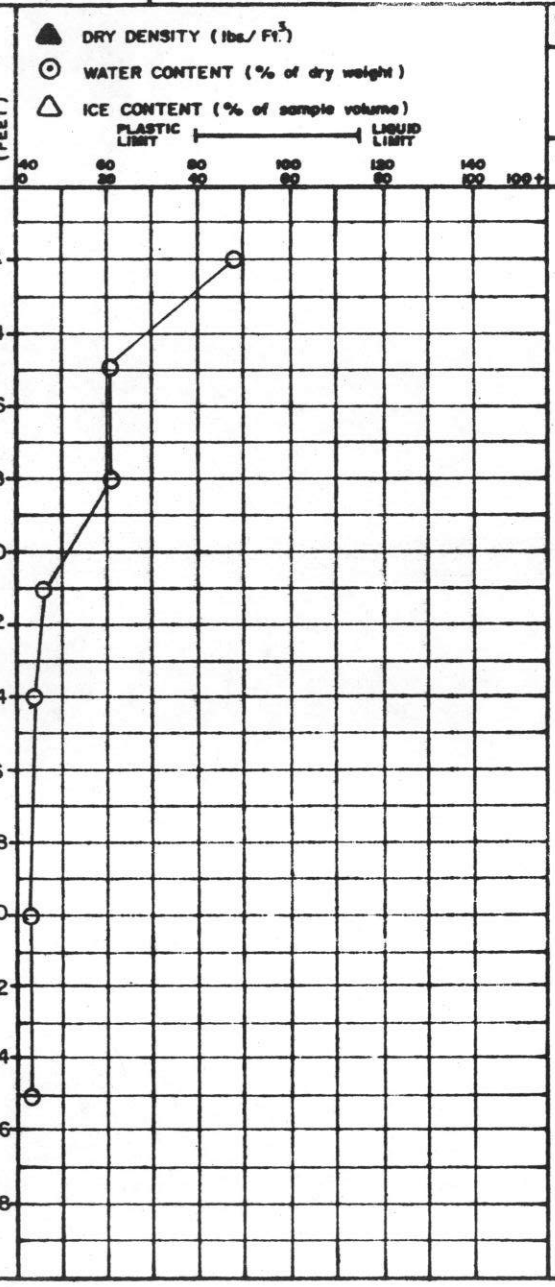
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 5
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.	MILE 784.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 3'		High Ice Vs
4					CL	Clay - Sandy - Silty - Pebbles		Moderate Ice
6					Cl	Low-Med. Plastic		Content
8						9'		Vc - Vr
10						Shale - Hard	F	
12								Frozen
14								
16								Nbn
18								
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Wet	
				Wet	
				Humid	
				Humid	
				Humid	
				Humid	

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

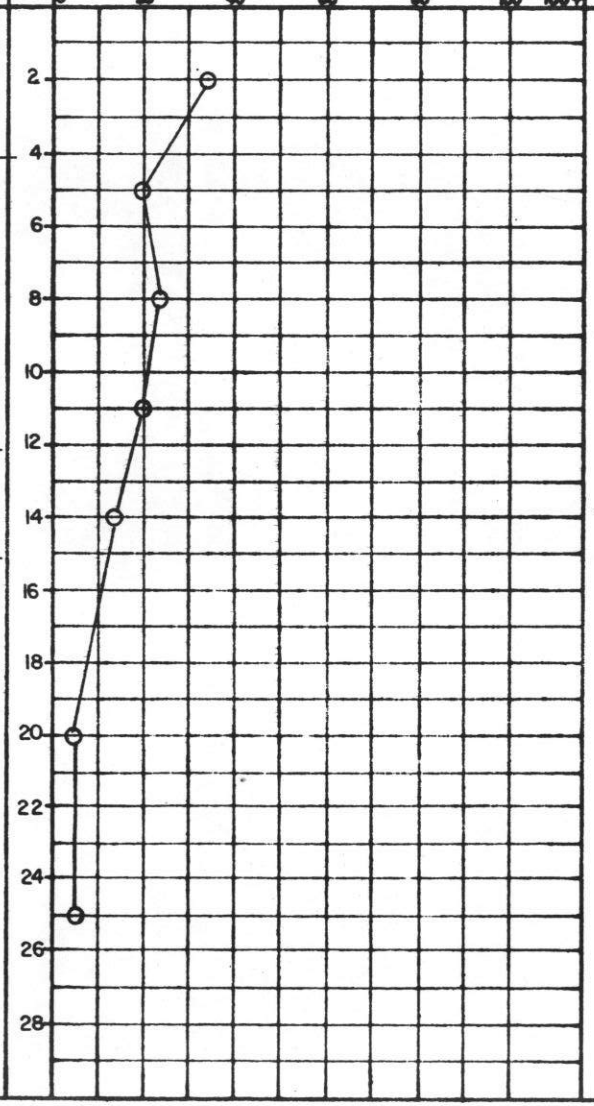
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to E. | VEGETATION. Spruce | ELEV.

TEST HOLE 6

MILE 784.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1.5		High Ice
4					CL	Clay - Silty - Sandy - Pebbles		Vs
6					Cl	Low-Med. Plastic		Moderate Ice
8					OL	Clay - Organic @ 8'	F	Content
10					OH			
12						Org. Material 12' & Soft Shale		Vc - Vr Low Ice
14						Shale - Soft - Med Hard Black		VX
16								Frozen
18								Nbn
20						Hard		
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Free Water
				Wet
				Moist
				Moist
				Moist
				Humid
				Humid

REMARKS

B074

DS-14-5-74 b

BORROW PIT 143

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Slope to E. | VEGETATION. Spruce | ELEV.

TEST HOLE 7

MILE 784.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 2"		Vc - Vr
2						Clay - Silty Sandy - Pebbles		Moderate
4					CL	Low-Med. Plastic		To
6								
8						50 - 60%		Low
10					Cl	Shale Fragments from 8' - 25'	F	Ice
12								
14								Content
16								
18								VX
20								
22								
24						Clay Silty - Pebbles		
26						27'		
						Shale - Med. Hard - Hard		
28						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Wet
				Wet
				Moist
				Moist
				Moist
				Damp
				Humid

REMARKS

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DS-14-5-74 b

BORROW PIT 144

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION. SPRUCE	ELEV.

TEST HOLE 1

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 2"		
2						GRAVEL-SAND-CLAY		Vx
4								Low
6					GC		F	To
8						GRAVEL -Sandy Clayey		Nil
10								Ice
12								Nbn
14						— 14'		
16						BOTTOM OF HOLE - 14'		
18								
20								
22								
24								
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 60 20 80 40 100 60 120 80 140 100 100+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
				Moist
				Moist
				Damp
				Damp

REMARKS

DS-14-5-74 b

BORROW PIT 144

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE & BIRCH	ELEV.

TEST HOLE 2

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 2"		Nil
2						GRAVEL -Sandy Small amount of Clay		To
4								Nbn
6					GC		F	Low
8								Ice
10								
12								
14						— 14'		Content
16						CLAY -Sandy Silty Gravelly Med plastic		
18					CI			Vx
20						— 20'		
22						BOTTOM OF HOLE - 20'		
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100 120

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL	RELATIVE THAWED MOISTURE CONTENT	REMARKS
	%	%	%	%		
2					Damp	
4					Damp	
8					Damp	
12					Moist	
14					Damp	
20					Damp	

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BORROW PIT 144

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. SLOPE TO WEST	VEGETATION. BIRCH-SPRUCE-WILLOWS	ELEV.

TEST HOLE 3

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT — 2"								
2						GRAVEL-SAND MIXTURE -A little clay Silty		Nbn					Damp	
4					GC		F	Nil	-17-		45	38	Damp	
6								Ice						
8													Damp	
10						— 11'			-31-		51	18	Damp	
12					SC	SAND -Clayey Gravelly								
14						— 14'								
16						BOTTOM OF HOLE - 14'								
18														
20														
22														
24														
26														
28														

▲ DRY DENSITY (lbs./Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 60 20 80 40 100 60 120 80 140 100 100+

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BORROW PIT 144

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. RIDGE	VEGETATION. BIRCH - SPRUCE	ELEV.

TEST HOLE 4

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 2"		
2					GC	GRAVEL -Sandy Small amount of Clay		Nil
4								
6							F	Ice
8						— 8'		
10					SW	SAND -Gravelly Coarse - medium		Nbn
12						— 13'		
14					GC	GRAVEL-Sandy, clayey — 14'		
16						BOTTOM OF HOLE - 14'		
18								
20								
22								
24								
26								
28								

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160+
2	●								
4	○								
6	△								
8	●								
10	○								
12	△								
14	●								

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Damp	
					Damp	
					Damp	
					Damp	
					Damp	

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BORROW PIT 144

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.	TEST HOLE 5
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. POPLAR - WILLOW	ELEV.	MILE 786

DRY DENSITY (lbs./ Ft.^{3}) ▲ WATER CONTENT (% of dry weight) ⊙ ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					OH	ORGANIC — 2"								
2					SC	SAND -Gravelly Clayey		Low To Ice					Moist	
4					GC	GRAVEL -Sandy	F	Nil Vx Nbn	-7-		32	61	Damp	
6														
8														
10						10'								
12						BOTTOM OF HOLE - 10'								
14														
16														
18														
20														
22														
24														
26														
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. ESKER	VEGETATION. POPLAR	ELEV.

TEST HOLE 6

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 2"		
2					SP	SAND -Silty Gravelly		Low
4						— 4'		
6						GRAVEL -Sandy Clayey	F	Ice
8					GC			
10								Vx
12								
14						— 14'		
16						BOTTOM OF HOLE - 14'		
18								
20								
22								
24								
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 109+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Damp	
				Damp	
				Damp	

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 12/3/74 | AIRPHOTO NO. | CHAINAGE. 3285+00 | OFFSET.

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. ESKER | VEGETATION. SPRUCE | ELEV.

TEST HOLE 7

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 2"		
2					SC	SAND -Clayey Gravelly		Nil
4						— 4'		
6					GC	GRAVEL -Sandy Clayey Hard shale fragments	F	Ice
8								
10								Nbn
						— 11'		
12						BOTTOM OF HOLE - 11'		
14								
16								
18								
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	40	60	80	100	120	140	100+
	0	20	40	60	80	100	

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED.	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. ESKER	VEGETATION. SPRUCE - WILLOW	ELEV.

TEST HOLE 8

MILE 786

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 2"								
2						GRAVEL -Sandy Clayey							Damp	
4													Damp	
6					GC		F	Nil						
8								Ice					Damp	
10													Damp	
12														
14						— 14'		Nbn					Moist	
16						BOTTOM OF HOLE - 14'								
18														
20														
22														
24														
26														
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 12/3/74 | AIRPHOTO NO. | CHAINAGE. 3285+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 9

MILE 786

REMARKS

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT — 1'							Free Water
2						SILT -Sandy Clayey							
4						— 4'		High					Sat.
6						CLAY -Silty Organic Low plastic	F	Ice					
8					CL	Organic							Sat.
10								Vs					
12						Organic — 12'							Wet
14					GC	GRAVEL -Sandy Clayey		Low					Wet
16													
18													
20					GP	Sandy		Ice					Wet
22						Few boulders							Sat.
24								Vx					
26						— 25'							
28						BOTTOM OF HOLE - 25'							

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 12/3/74 | AIRPHOTO NO. | CHAINAGE. 3285+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

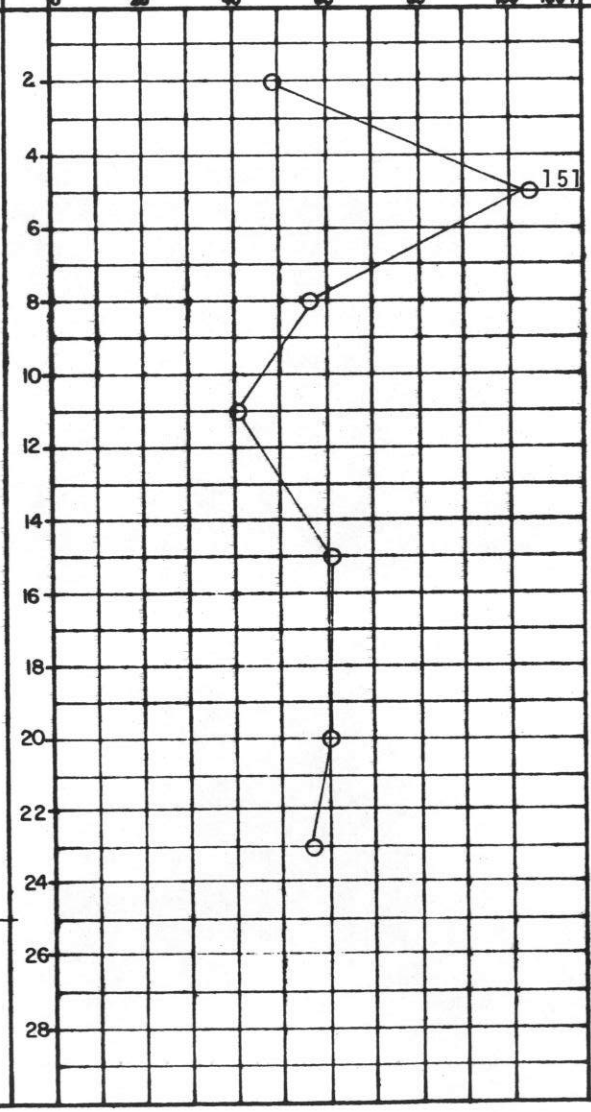
TEST HOLE 10

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT							Sat.
						2'							
2					CL	CLAY -Sandy Silty Organic							
4						5'							Free Water
6					Pt	PEAT		High					
						7'							Free Water
8					CH	CLAY -Silty High plastic	F						
10													Wet
12								Ice					
14						CLAY -Silty Sandy High plastic							Moist
16					CH								
18													
20						20'							Wet
						CLAY -Silty							
22					CH	High plastic							Wet
24						Sandy-pebbles							
						25'							
26						BOTTOM OF HOLE - 25'							
28													

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



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BORROW PIT 144

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.	TEST HOLE 11
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					CL	CLAY -Sandy Silty Low plastic Organic to 4'	F	High Ice					Wet	
4													Free Water	
6														
8								Vs					Free Water	
10						10'								
12					GP	GRAVEL		Low					Sat.	
14														
16					GC	-Clayey		Ice					Wet	
18														
20					GP	GRAVEL		Vx					Sat.	
22													Sat.	
24														
26						25' BOTTOM OF HOLE - 25'									
28														

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.	TEST HOLE 12
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE. ESKER	VEGETATION.	ELEV.	MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0–14					GW / GP	GRAVEL -Sandy	F	Nil Ice Nbn					Humid	
14						14'								
						BOTTOM OF HOLE - 14' Hole Caving								

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 13

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2						GRAVEL-SAND MIXTURE		Nil					Damp
4					GP	-Silty	F	Ice	-12-		57	31	Damp
6								Nbn					
8						8'							
10						BOTTOM OF HOLE - 8'							
12						Hole Caving							
14													
16													
18													
20													
22													
24													
26													
28													

DRY DENSITY (lbs./Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+
0 20 40 60 80 100

REMARKS

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. 3285+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 14

MILE 786

DRY DENSITY (lbs./ Ft.^{3}) ▲

WATER CONTENT (% of dry weight) ⊙

ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					SC	SAND -Gravelly Clayey		Nil					Damp	
4						4'								
6					GC	GRAVEL -Sandy Clayey		Ice					Humid	
8							F						Humid	
10								Nbn						
12						11'							Humid	
14					SC	SAND -Gravelly Clayey							Humid	
16						14'								
18						BOTTOM OF HOLE - 14'								
20						Hole Caving								
22														
24														
26														
28														

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BORROW PIT 144

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 15

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					SP	SAND -Gravelly		Nil
4						4'	F	Ice
6					GP	GRAVEL -Sandy		Nbn
8						8'		
10						BOTTOM OF HOLE - 8'		
12								
14								
16								
18								
20								
22								
24								
26								
28								

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+
0 20 40 60 80 100

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Damp	
4					Damp	
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						
26						
28						

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 16

MILE 786

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2					GP	GRAVEL -Sandy	F	Nil					Damp	
4													Damp	
6														
8								Ice					Damp	
10														
12								Nbn					Damp	
14						14'								
16						BOTTOM OF HOLE - 14' Hole Caving									
18														
20														
22														
24														
26														
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 11/3/74 | AIRPHOTO NO. | CHAINAGE. 3285+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 17

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 4"		
2					SC	SAND -Gravelly Clayey	F	Nil
4								
6								Ice
8					SP	Medium-pebbles		Nbn
10								
12						Medium		
14						— 14'		
16						BOTTOM OF HOLE - 14 Hole Caving In		
18								
20								
22								
24								
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Damp	
4	-15-		62	23	Damp	
6						
8					Damp	
10						
12	-5-		93	2	Damp	
14						
16						
18						
20						
22						
24						
26						
28						

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.	TEST HOLE 18
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT — 4"								
2					GW	GRAVEL -Sandy		Nil					Damp	
4					SW	SAND -Gravelly	F	Ice Content					Damp	
6														
8						8'		Nbn						
10						BOTTOM OF HOLE - 8' Hole Caving In									
12														
14														
16														
18														
20														
22														
24														
26														
28														

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160+

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.	TEST HOLE 18A
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
						BOULDERS .5'		Vx
2					GC	GRAVEL -Sandy Clayey	F	Low
4								To
6								Nil
						7'		Ice
8						BOTTOM OF HOLE - 7'		Nbn
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.	TEST HOLE 19
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 786

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1½'								
2						CLAY -Silty Low-med. plastic		Moderate					Wet	
4					CL									
6								Ice					Wet	
8													Free Water	
10					CI	Sandy silty	F	Vc - Vr					Sat.	
12						CLAY-SHALE MIXTURE		High						
14								Ice						
15													Sat.	
16						SILT -Clayey Sandy		Vs						
18					ML									
20								Low					Sat.	
22						GRAVEL -Clayey Sandy		Ice						
24					GC			Vx						
25														
26						BOTTOM OF HOLE - 25'								
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 12/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 20

MILE 786

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					GP	GRAVEL - Sandy							
						.5'							
2						SAND		Vc - Vr					Moist
						-Clayey							
4					SC	Pebbles - Shale fragments		Moderate					Moist
6						Gravelly		To					
8						8'	F						Moist
						CLAY							
10						-Gravelly		Vx					
						Sandy							Moist
12					CL	Shale fragments		Low					
14													
						15'							Damp
16						SAND		Ice					
						-Gravelly							
18						Clayey							
20					SC								Damp
22													Damp
24													
						25'							
26						BOTTOM OF HOLE - 25'							
28													

▲ DRY DENSITY (lbs./Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 60 20 80 40 100 60 120 80 140 100 100+

DS-14-5-74 b

BORROW PIT 144

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 12/3/74 | AIRPHOTO NO. | CHAINAGE. 3285+00 | OFFSET.

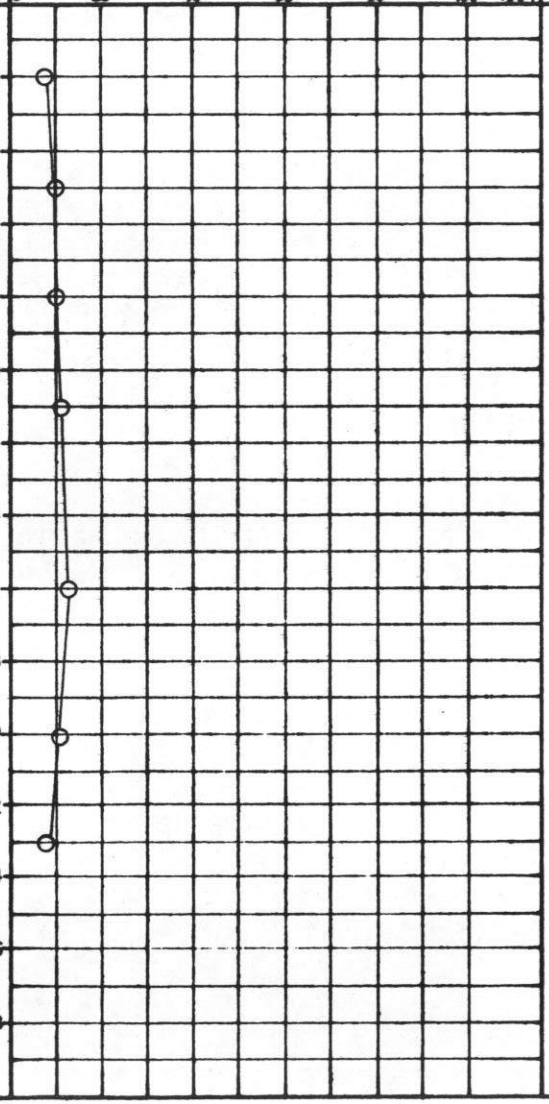
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 21

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — .5'		
2						SAND -Fine - coarse Clayey		
4					SC	Pebbles		Low
6					GC	Gravelly		
8						— 8'		Ice
10						CLAY -Silty Sandy	F	
12					CL	Gravelly Shale fragments		Content
14								
16						Gravelly only		
18					CI			Vx
20								
22								
24						Pebbles		
26						— 25' BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Damp
				Damp
				Moist
				Moist
				Moist
				Damp
				Damp

REMARKS

DS-14-5-74 b

BORROW PIT 144

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 11/3/74	AIRPHOTO NO.	CHAINAGE. 3285+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 22

MILE 786

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2					CL	CLAY -Silty Sandy Pebbles Low plastic		Low
10						Gravelly	F	
14								Ice
15'								
16					GC	GRAVEL-CLAY-SAND MIXTURE		Vx
25'								
26						BOTTOM OF HOLE - 25'		

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Damp	
				Moist	
				Damp	
				Damp	
				Damp	
				Moist	

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BORROW PIT 145

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE 779

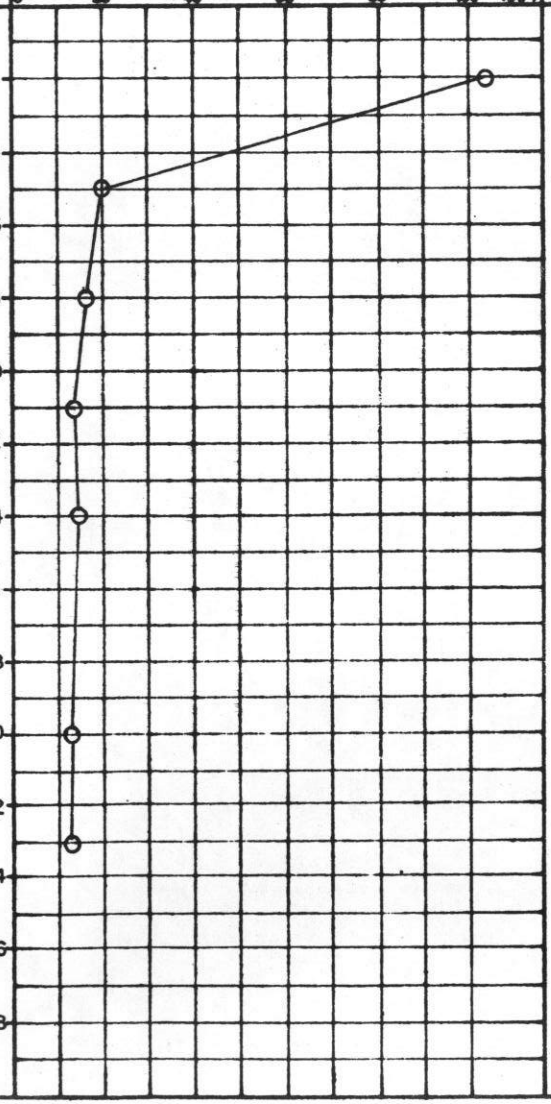
DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT		High Ice
					Pt	PEAT 1.5'		
2						Clay - Sandy		
						- Silty		
						- Pebbles		Vs
4						Med. Plastic		
6								Low
8					Cl			
10								
12							F	Ice
14								
16								VX
18								
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 40 20 60 40 80 60 100 80 120 100 140 100+



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT	REMARKS
Free Water	
Moist	
Moist	
Moist	
Moist	
Moist	
Moist	

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BORROW PIT 145

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. Level | VEGETATION. Spruce | ELEV.

TEST HOLE 2

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1'		
						Clay - Sandy - Silty Low-Med. Plastic		Moderate Ice
4					CL	Gravelly		Vc - Vr
6								
8						Pebbles	F	Low
10					Cl			
12								Ice
14								
16								VX
18								
20								
22								
24						Gravelly		
26								
28						BOTTOM OF HOLE 29'		

DEPTH (FEET)

DRY DENSITY (lbs./ Ft.^{3})

WATER CONTENT (% of dry weight)

ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Sat.
				Moist
				Moist
				Moist
				Moist
				Moist

REMARKS

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BORROW PIT 145

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1'		
4						Clay - Sandy - Silty - Pebbles		High Ice
6					CL	Low-Med. Plastic		Vs
8							F	
10								
12								Low
14								
16					Cl			Ice
18								
20								VX
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Free Water	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

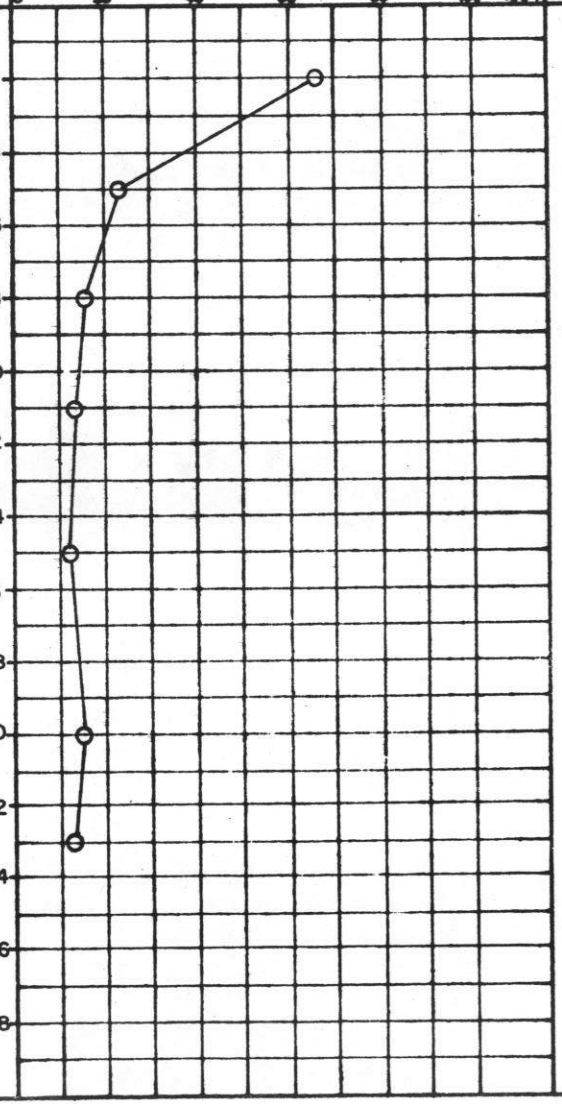
FIELD ENG. N. BURGESS	DATE DRILLED. 13/3/74	AIRPHOTO NO.	CHAINAGE. 2913+00	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		High Vs
2						Clay - Sandy - Silty - Pebbles		To
4								Moderate
6						Gravelly		Ice Vc-Vr
8					Cl	Pebbles		
10						Med. Plastic	F	
12								Low
14								
16								Ice
18								
20								
22								VX
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					
2					Free Water
4					
6					Wet
8					Moist
10					Moist
12					
14					Moist
16					
18					
20					Moist
22					Moist
24					
26					
28					

REMARKS

BORROW PIT 145

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. BAINE | RIG. | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 6

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		Moderate
2						Clay - Sandy - Silty - Pebbles		
4					CL	Low-Med. Plastic		Ice
6								Vc-Vr
8					Cl		F	
10								Low
12								
14								
16								Ice
18								
20								
22								VX
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Sat.	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

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BORROW PIT 145

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

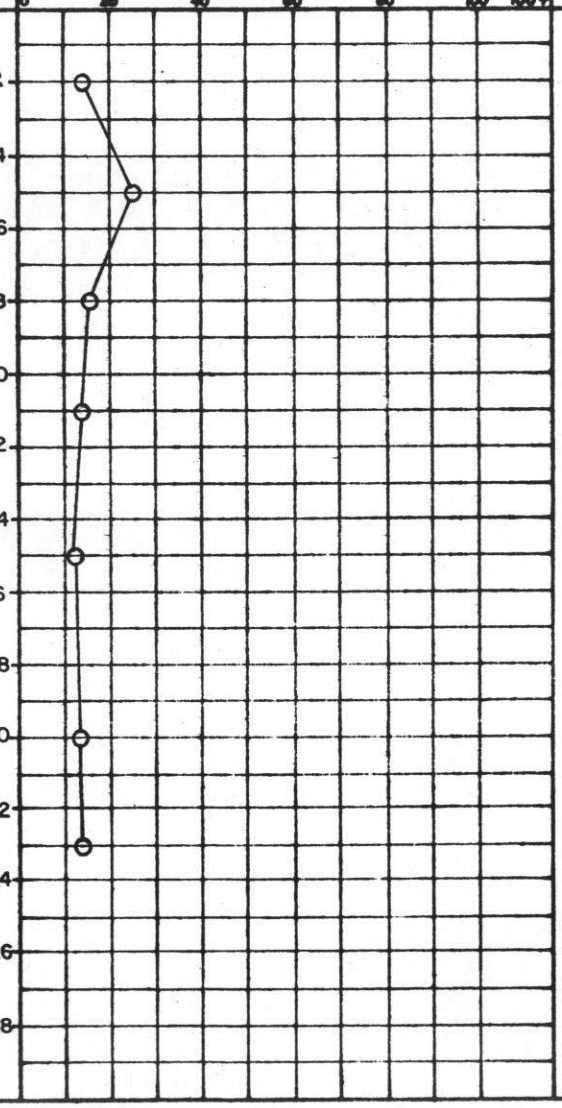
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 7

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						Clay - Sandy - Silty - Pebbles		Moderate Ice
4						Med. Plastic		
6							F	Vc - Vr
8					Cl			
10								Low Ice
12								
14								
16								
18								VX
20							F	
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Wet
4					Sat.
8					Moist
10					Moist
14					Moist
20					Moist
22					Moist

REMARKS

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BORROW PIT 145

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 8

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						Clay - Sandy - Silty - Pebbles		Moderate
4						Med. Plastic		Ice
6								Vc - Vr
8					Cl		F	
10								
12								Low
14								Ice
16								
18								
20								VX
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET) | DRY DENSITY (lbs./ Ft.^{3}) | WATER CONTENT (% of dry weight) | ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

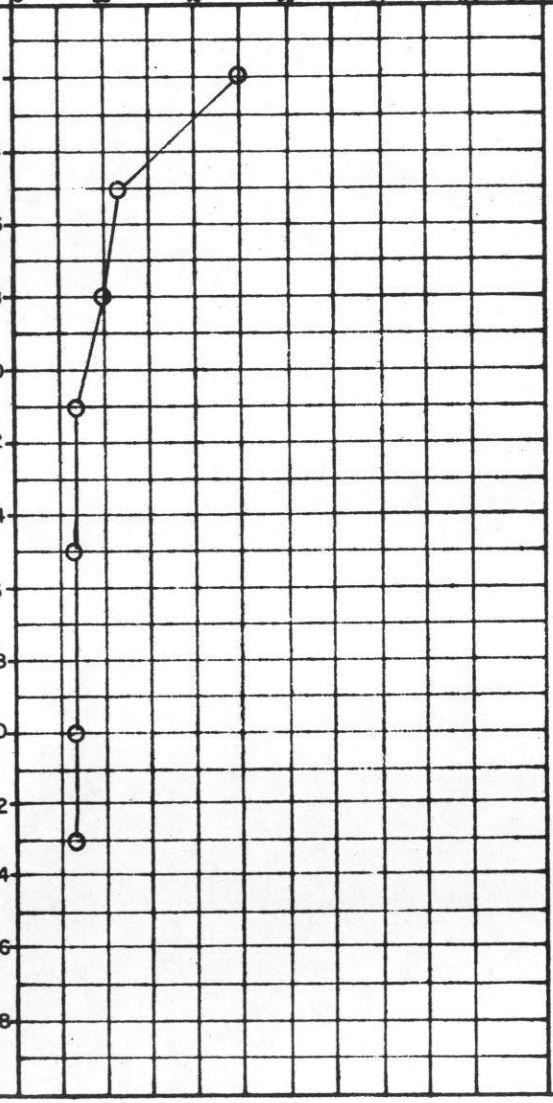
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 9

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		Vs
2					Gc	Clay - Sand - Gravel Mixture		High To Moderate
4						4'		
6						Clay - Sandy - Silty - Pebbles		Ice Vc - Vr
8						Med. Plastic	F	
10					Cl			Low
12								
14								Ice
16								
18								
20								Vx
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Sat.	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

B074

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 10

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat 1'		
2					CL	Clay - Silty - Sandy - Pebbles		Moderate Ice
4						Low-Med. Plastic		Vc - Vr
6					Cl			
8						Gravelly	F	
10								Low
12								Ice
14						Shale & Siltstone Pieces		
16								
18								VX
20						Pebbles		
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Moist	
				Sat.	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

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BORROW PIT 145

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 11

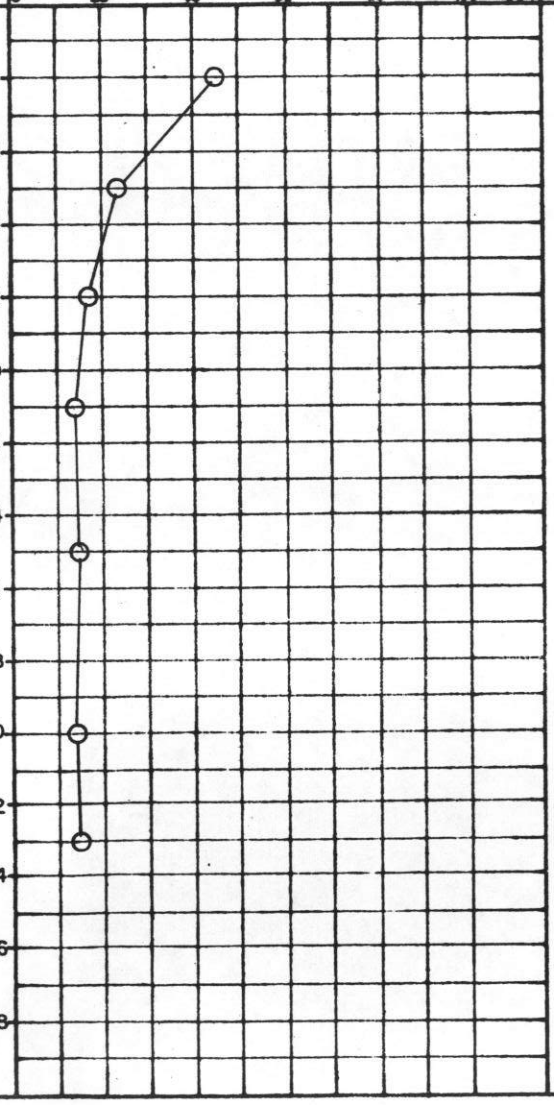
MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		High Vs
2						Clay - Silty - Sandy - Pebbles		To
4								Moderate
						Low-Med. Plastic		
6					CL			Ice
8								Vc - Vr
10					Cl		F	
12								
14								Low
						Boulder Chips		
16								Ice
18								
20								VX
22								
24						BOTTOM OF HOLE 25'		
26								
28								

▲ DRY DENSITY (lbs./Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+
0 20 40 60 80 100



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Free Water
				Wet
				Moist
				Damp
				Damp
				Damp
				Moist

REMARKS

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BORROW PIT 145

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

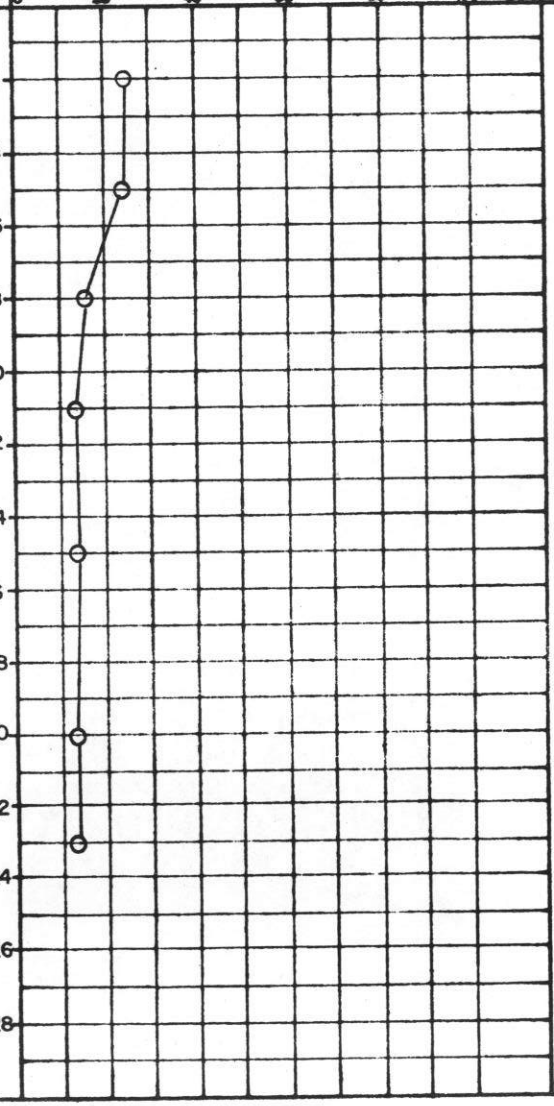
TEST HOLE 12

MILE 779

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT .5'		Moderate					
2						Clay - Silty - Sandy - Gravelly		Ice					Sat.
4						Low-Med. Plastic		Vc - Vr					Sat.
6					CL	Pebbles							Moist
8					Cl		F	Low					Damp
10													
12								Ice					Damp
14													
16								VX					Damp
18													
20													Damp
22													
24						BOTTOM OF HOLE 25'							
26													
28													

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160+



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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 13

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.5'	F	Moderate
2						Clay - Silty - Sandy - Pebbles		
4						Low-Med. Plastic		Ice
6						Shale Fragments		Vc - Vr
8					CL	Chard		
10					Cl	Pebbles		Low
12								
14								Ice
16								
18								
20								VX
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Wet	
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	

B074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. | RIG. MAYHEW # | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 14

MILE 779

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 60 20 80 40 100 60 120 80 140 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT .5'		Moderate Vc-Vr Ice To High Vs					Free Water
2						Clay - Sandy Silty - Pebbles							
4					CL	Low-Med. Plastic							Wet
6													
8													Moist
10					Cl		F	Low Ice					Damp
12													
14													Damp
16								VX					
18													
20						Shale Fragments Hard							Damp
22													Damp
24						BOTTOM OF HOLE 25'							
26													
28													

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DS-14-5-74 b

BORROW PIT 145

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2913+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 15

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		Moderate Ice Vc - Vr
2						Clay - Silty Sandy - Pebbles		
4					CL	Low-Med. Plastic		
6								
8								Low Ice
10					Cl		F	
12								
14								
16								VX
18								
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT

Wet
Moist
Damp
Damp
Damp
Damp
Damp

REMARKS

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DS-14-5-74 b

BORROW PIT 146

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2796+00 | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1'		High
						Clay - Sandy		To
						- Silty		Moderate
						- Pebbles		
4						Med. Plastic		Ice
					Cl			
6								Vs
								Vc - Vr
8							F	
10								Low
						11'		
12						Shale - Siltstone		
						Broken Down		
						Soft		
14								Ice
16						Shale - Silty Soft		
18								VX
20								
22						Med. Hard		
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Free Water	
4					Wet	
6						
8					Moist	
10					Moist	
12						
14					Moist	
16						
18						
20					Moist	
22					Moist	
24						
26						
28						

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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

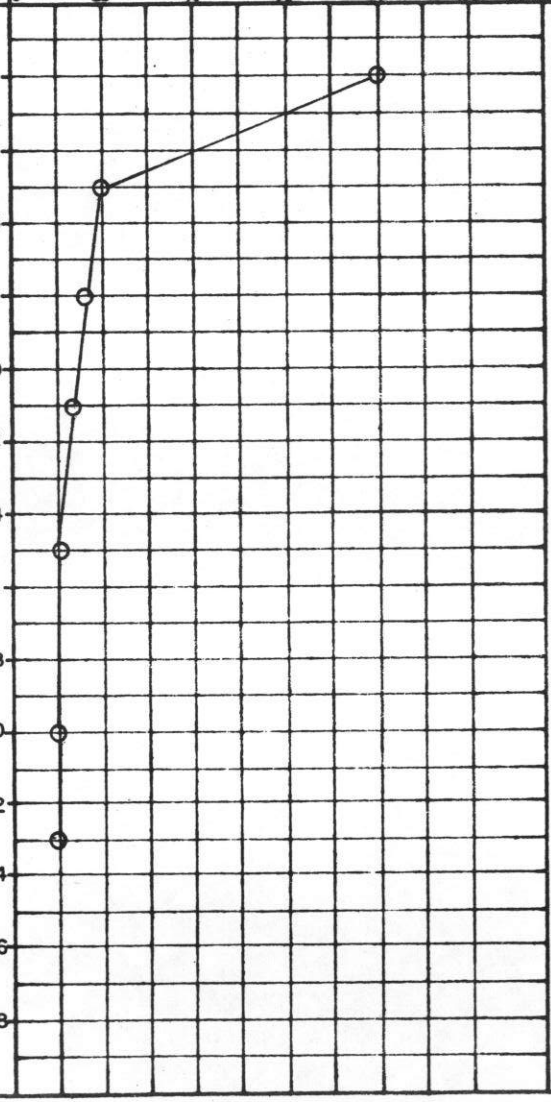
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TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		High
4						Clay - Sandy - Silty - Pebbles		Ice Vs
6						Med. Plastic		
8					Cl		F	Low
10								
12								Ice
14						Layers of Siltstone & Shale		
16						16'		VX
18						Shale - Soft Few Siltstone Frags.		
20								
22						Soft-Med. Hard		
24						BOTTOM OF HOLE 25'		
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Free Water
				Wet
				Moist
				Moist
				Moist
				Moist
				Moist

REMARKS

BORROW PIT 146

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2796+00 | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'	F	Moderate Ice
4					CL	Clay - Sandy - Silty - Pebbles		Vc - Vr
6						Gravelly		
8						Pebbles		
10					Cl	Med. Plastic		
12								
14								Low Ice
16								
18								
20						Siltstone & Shale Fragments		VX
22						23'		
24						Shale - Soft BOTTOM OF HOLE 25'		
26								
28								

▲ DRY DENSITY (lbs./ Ft.^{3})
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Wet	
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	

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BORROW PIT 146

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2796+00 | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 4

MILE 777

REMARKS

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1.5'		Moderate Ice					Wet
2						Clay - Sandy - Silty - Pebbles							
4						Med. Plastic		Vc - Vr					Wet
6					Cl			Low					Moist
8													
10							F	Ice					Moist
12													
14						14.5'							Moist
16						Shale & Siltstone Soft-Broken Down		VX					
18													
20						Soft - Med. Hard							Moist
22													Moist
24						Soft BOTTOM OF HOLE 25'							
26													
28													

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BORROW PIT 146

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2796+00 | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 5

MILE 777

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		High
4						Clay - Silty - Sandy Med. Plastic - Pebbles		To Vs Moderate
6								
8					Cl			Ice Vc - Vr
10							F	
12								
14								
16								Low Ice
18								
20						Shale & Siltstone FRAGMENTS		
22						22'		VX
24						Shale - Soft Some Siltstone BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Sat.
4					Sat.
6					
8					Wet
10					Moist
12					
14					Moist
16					
18					
20					Moist
22					Moist
24					
26					
28					

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

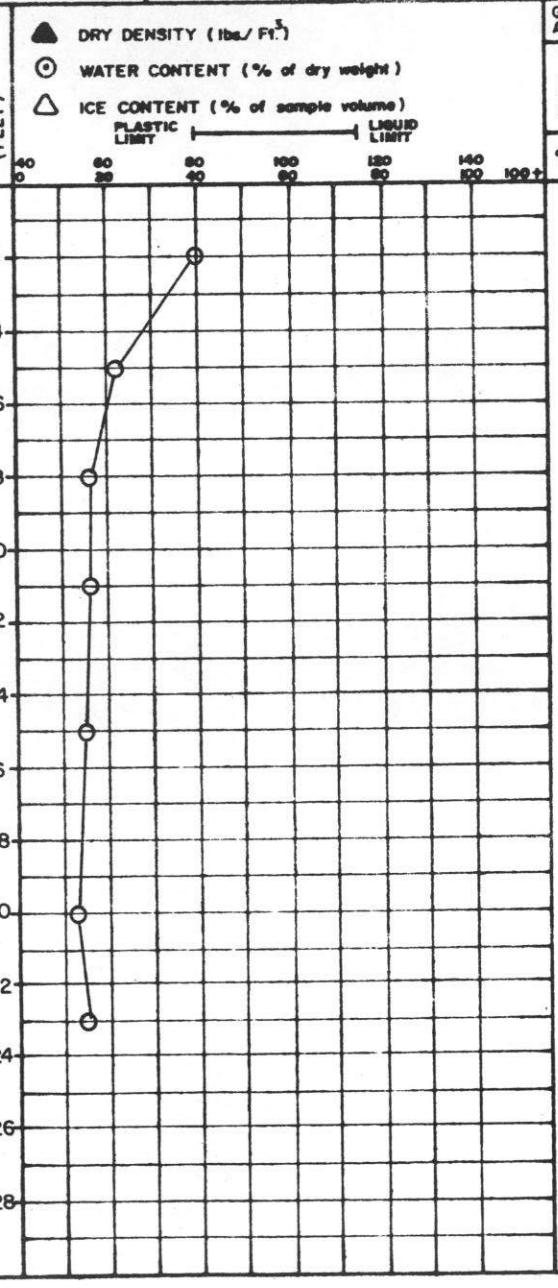
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TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 6

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.5'		High
2						Clay - Sandy		To Vs
						- Silty		
4						- Pebbles		Moderate
6						Gravelly		Ice
								Vc - Vr
8						Pebbles		
10					Cl	Med. Plastic	F	Low
12								
14								Ice
16								
18								
20								VX
22								
24						BOTTOM OF HOLE 25'		
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Free Water
				Wet
				Moist
				Moist
				Moist
				Moist
				Moist

REMARKS

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2796+00 | OFFSET.

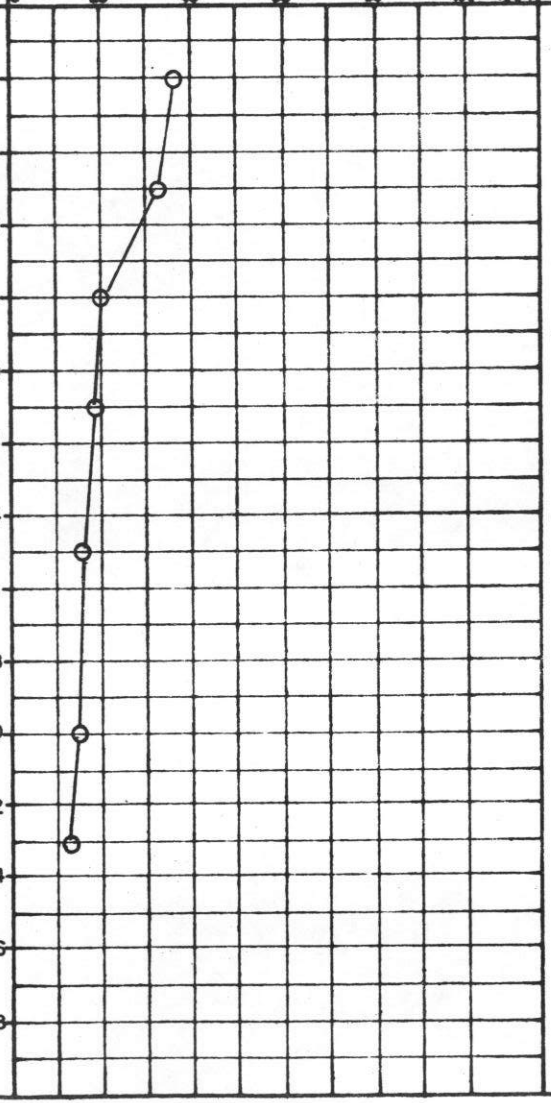
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 7

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.5'		High
2						Clay - Sandy		
4						- Silty		Vs
6						- Pebbles		Ice
8					Cl	Med. Plastic	F	
10								Low
12								
14								Ice
16								
18								VX
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Free Water
4					Free Water
8					Moist
10					Moist
14					Moist
20					Moist
22					Moist

REMARKS

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2796+00 | OFFSET.

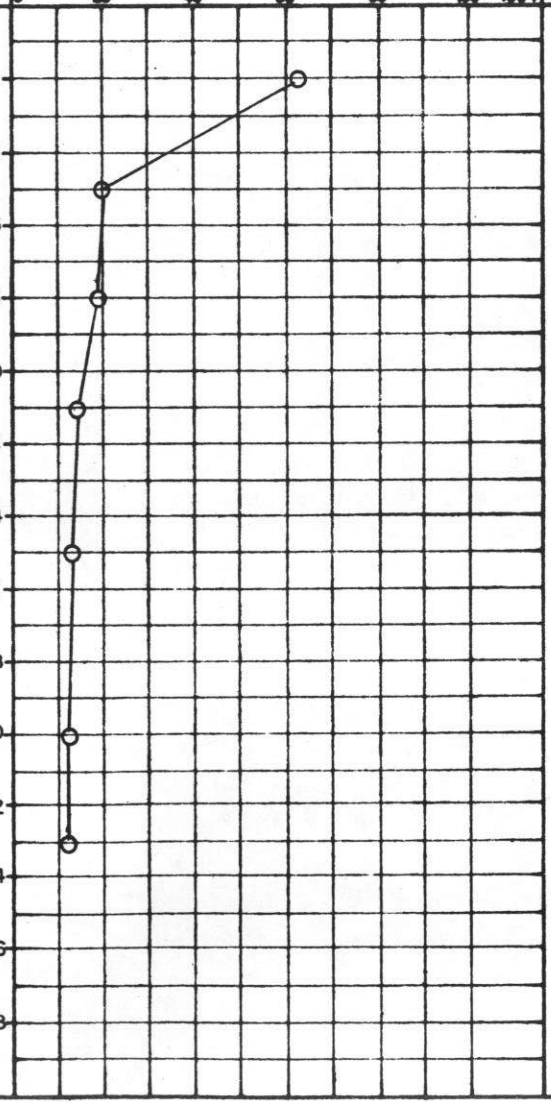
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 8

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		High Ice
						Clay - Sandy - Silty - Pebbles		Vs
4								Moderate
6						Med. Plastic		Vc - Vr
8							F	
10								To
12					Cl			
14								Low
16								
18								Ice
20								
22								Vx
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %

DEPTH (FEET)	RELATIVE THAWED MOISTURE CONTENT
2	Free Water
4	Wet
8	Wet
12	Moist
14	Moist
20	Damp
22	Damp

REMARKS

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BORROW PIT 146

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2796+00 | OFFSET.

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 9

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1'		Moderate
4						Clay - Sandy - Silty - Pebbles		Ice
6						Med. Plastic		
8					Cl			Vc - Vr
10							F	Low
12								Ice
14								VX
16								
18								
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 160 180+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	
				Damp	

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2796+00 | OFFSET.

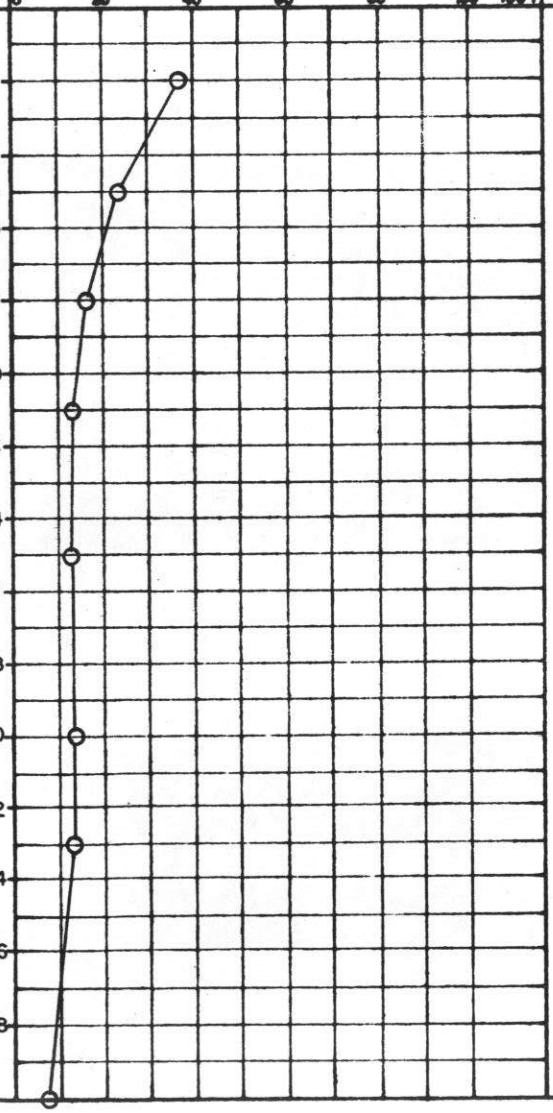
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 10

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1.5'		High
4						Clay - Sandy		To
6						- Silty		Moderate
8						- Pebbles		Vs
10						Med. Plastic		Ice
12					Cl		F	Vc - Vr
14								Low
16								Ice
18								
20								VX
22								
24								
26						26'		
28						Shale - Silts		
						Soft - Med. Hard		
						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Sat.
				Wet
				Moist
				Moist
				Moist
				Moist
				Moist
				Moist

REMARKS

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

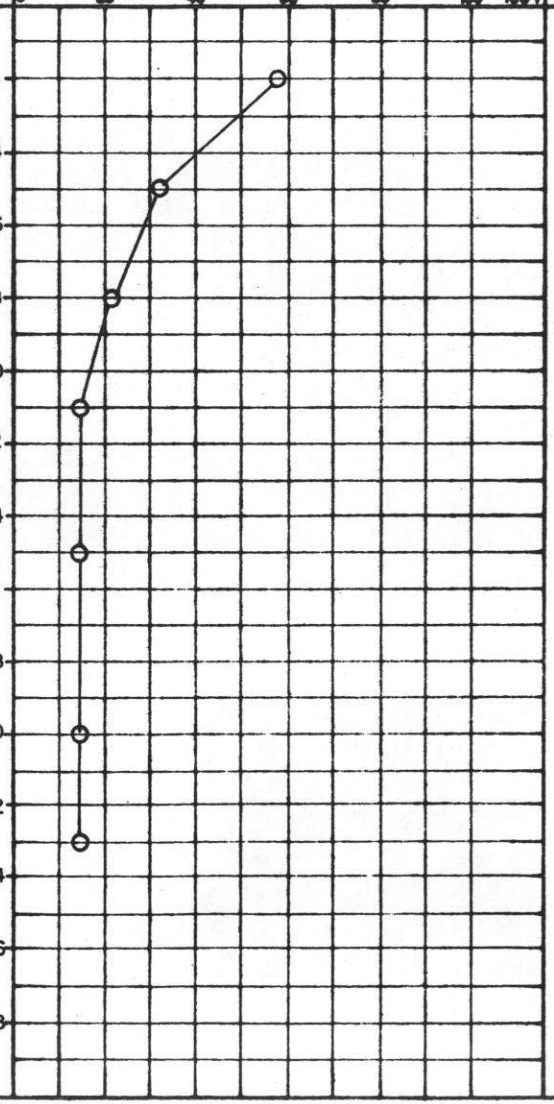
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TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		High
2						Clay - Sandy - Silty - Pebbles		
4						Med. Plastic		
6								Ice Vs
8								
10					Cl		F	Low
12								Ice
14								
16								
18								VX
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Free Water	
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	

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BORROW PIT 146

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. 2796+00 | OFFSET.

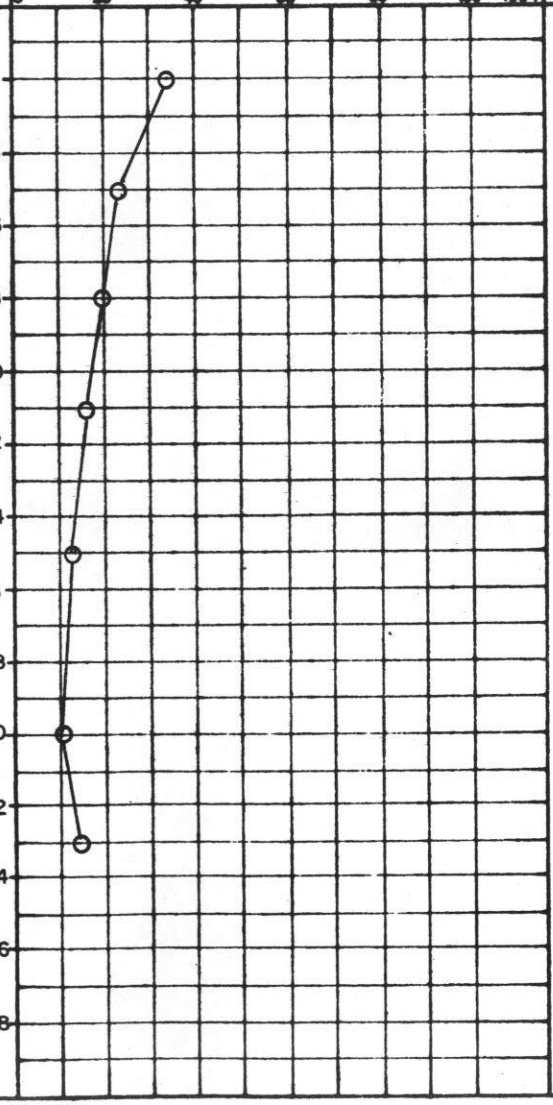
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 12

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0-2					Pt	PEAT 1.5'	F	High Vs
2-4						Clay - Sandy - Silty - Pebbles		To Moderate
4-6						Low-Med. Plastic		Ice
6-8					CL			Vc - Vr
8-10					Cl			
10-12								Low
12-14								Ice
14-16								
16-18								VX
18-20								
20-22								
22-24								
24-26						BOTTOM OF HOLE 25'		
26-28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0-2					Free Water
2-4					
4-6					Wet
6-8					
8-10					Moist
10-12					Moist
12-14					
14-16					Moist
16-18					
18-20					Damp
20-22					
22-24					Damp
24-26					
26-28					

REMARKS

B074

DS-14-5-74 b

BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. Burgess | DATE DRILLED. 12/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. Mayhew #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce & Tamarack | ELEV.

TEST HOLE 1

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1'	F	High Vs To Moderate
4						Clay - Sandy Silty Pebbles		
6					CL	Low - Med. Plastic		Ice Vc - Vr
8								
10					Cl			Low
12								Ice
14								
16								VX
18								
20								
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Free Water
					Wet
					Moist
					Moist
					Moist
					Damp
					Damp
					Damp

REMARKS

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DS-14-5-74 b

BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 12/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 7" | ELEV.

TEST HOLE 2

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT .8'			
2						Clay - Sandy - Silty - Pebbles		High Ice Vs	Free Water
4					CL	Low-Med. Plastic		To	Wet
6									
8					Cl				Moist
10								Low	Moist
12									
14								Ice	Moist
16									
18								VX	
20									Moist
22									Moist
24									
26									
28						BOTTOM OF HOLE 30'			Damp

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

REMARKS

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DS-14-5-74 b

BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 5" | ELEV.

TEST HOLE 3

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
2					Pt	PEAT .8'			
4						Clay - Silty Sandy Pebbles		Moderate Ice	Wet
6						Low-Med. Plastic			Wet
8					CL			Vc - Vr	Moist
10							F	Low	Moist
12									
14					Cl			Ice	Moist
16						Gravelly			
18									
20								VX	Damp
22						Pebbles			Damp
24									
26									
28									
						Gravelly BOTTOM OF HOLE 30'			Damp

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

B074

DS-14-5-74 b

BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 12/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 8" | ELEV.

TEST HOLE 4

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .9'		
2					CL	Clay - Silty - Sandy - Gravelly		Moderate
4						4'		
6					Sc	Sand - Clayey - Gravelly		To
8							F	Vc - Vr
10						11'		Low
12					CL	Clay - Silty Sandy Pebbles		
14								Ice
16						15' Sand - Clayey Sandstone Chips Soft		
18					Sc			VX
20						Broken Down Soft To Hard Sandstone Clayey		
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Moist	
				Wet	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

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DS-14-5-74 b

BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

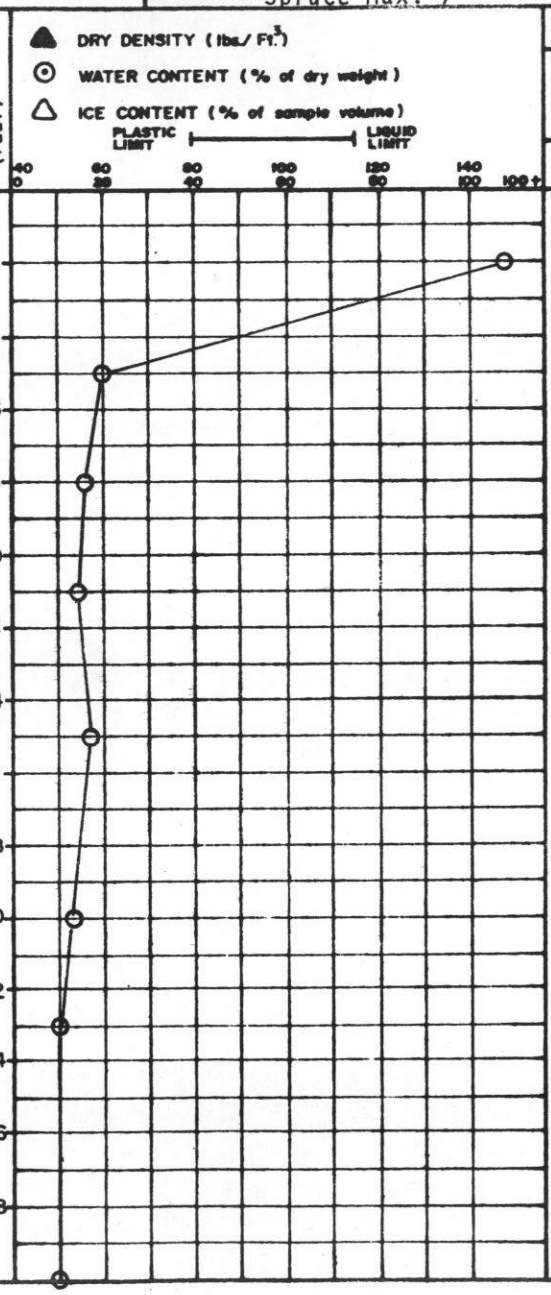
FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 7" | ELEV.

TEST HOLE 5

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		High Ice
4						Clay - Silty - Sandy - Pebbles		Vs
6					CL	Low-Med. Plastic		Vc - Vr
8								Moderate
10					Cl			To
12								Low
14								Ice
16								
18								
20						20'		VX
22						Sand - Clayey Sandstone Chips Clay - Soft Silty Sandy		
24						Sandstone Chips		
26								
28						BOTTOM OF HOLE 30'		



GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
				Free Water
				Wet
				Moist
				Moist
				Moist
				Damp
				Damp
				Damp

REMARKS

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BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 6" | ELEV.

TEST HOLE 6

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .7'		
2						Clay - Sandy Silty		
						Low - Med. Plastic		Moderate
4								
					CL	Pebbles		Ice
6								
8								Vc - Vr
							F	
10					Cl			
12								
14								
16								
18								VX
						20'		
20					Gc	Gravel - Clay - Sand Mixture		Low
22								Ice
						23'		
24					CL	Clay - Sand Mix 50% Shale & Sandstone Chips		
26								
28								
						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 160+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Sat.
				Moist
				Moist
				Moist
				Moist
				Moist
				Damp

REMARKS

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BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 8" | ELEV.

TEST HOLE 7

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	REMARKS
0					Pt	PEAT 1.1'								
2					Sc	Sand - Clayey		Moderate	Moist					
4						4'		Ice						
6						Clay - Silty Sandy Pebbles		Vc - Vr	Moist					
8					CL	Low-Med. Plastic	F							
10									Damp					
12					Cl			Low						
14									Damp					
16								Ice						
18														
20						Sandstone Chips		VX	Damp					
22						23'			Damp					
24						Sandstone - Clayey Broken Down Shale Fragments								
26														
28						BOTTOM OF HOLE 30'			Damp					

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 180+

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DS-14-5-74 b

BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

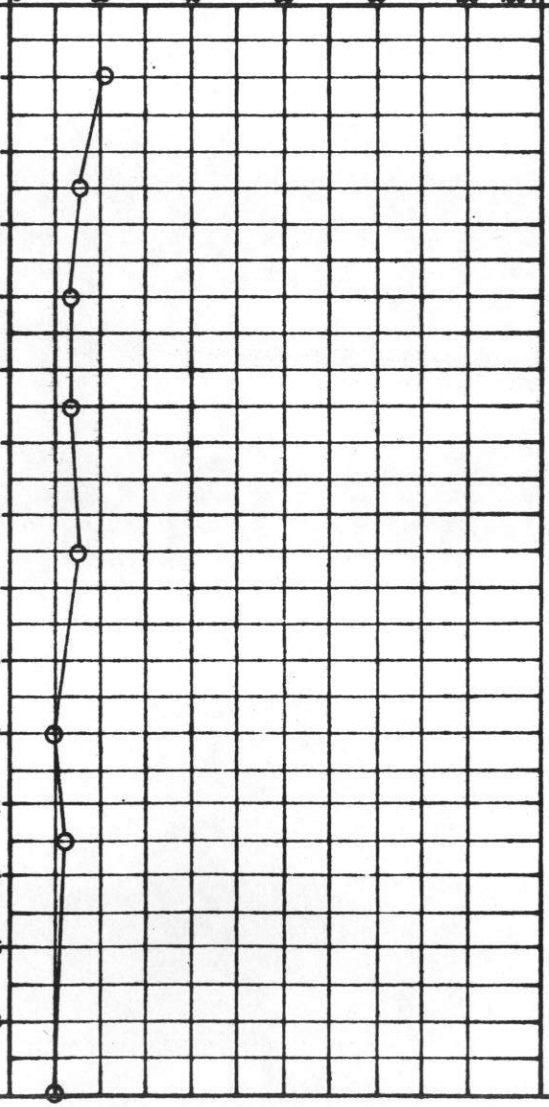
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION Spruce Max: 5" | ELEV.

TEST HOLE 8

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.2		Moderate
2						Clay - Silty - Pebbles Low-Med. Plastic		Ice
4					CL			Vc - Vr
6						Silty Sandy Pebbles		Low
8					CL			
10								Ice
12								
14								
16								VX
18						18' Shale-Sandstone Soft		
20								
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	

807A

DS-14-5-74 b

BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGES | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 11" | ELEV.

TEST HOLE 9

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1.4'		Moderate Ice
4						Clay - Silty - Sandy - Pebbles		Vc - Vr
6					CL	Low-Med. Plastic .		
8							F	Low
10					Cl			
12								Ice
14								
16								
18								VX
20						20'		
22						Sandstone - Clayey Soft Broken Down		
24								
26								
28						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
				Moist
				Wet
				Moist
				Moist
				Moist
				Moist
				Moist
				Moist

REMARKS

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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

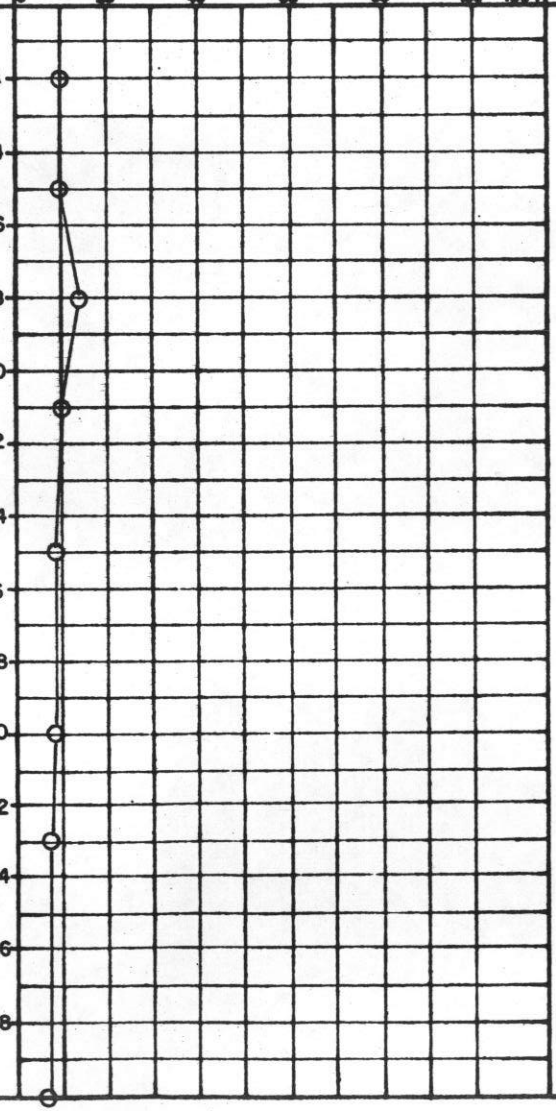
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 6" | ELEV.

TEST HOLE 10

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.4'		Moderate Ice
2					CL	Clay - Silty - Sandy - Pebbles		Vc - Vr
4						5'		
6					Gc	Gravel - Clayey - Sandy		Low
8						8'		
10					CL	Clay - Silty - Sandy - Gravelly	F	
12						Pebbles		Ice
14						Low Plastic		
16								
18								
						19'		
20						Sandstone - Silt-stone Shale Soft-Med. Hard		VX
22								
24						Soft		
26								
28						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Sat.	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

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BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | ELEV.

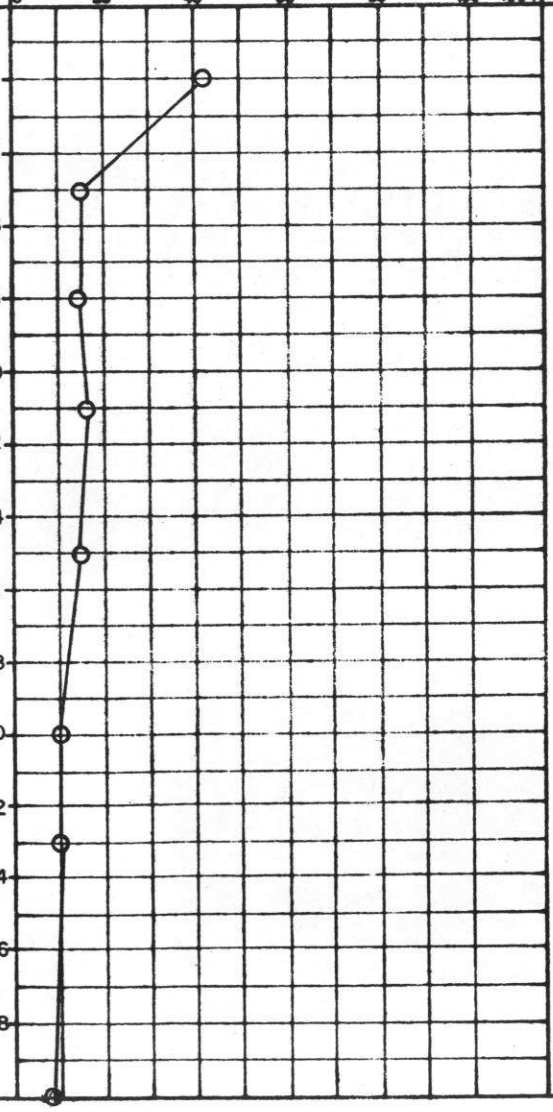
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 7"

TEST HOLE 11

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1.3'		High Ice	Free Water
2						Clay - Silty - Sandy - Pebbles			
4					CL	Low-Med. Plastic		Vs	Moist
6									
8								Low	Moist
10					Cl		F		Moist
12									
14								Ice	Damp
16									
18						19'			
20						Siltstone - Sandstone Shale - Soft		VX	Damp
22						Soft - Med. Hard			Damp
24									
26									
28						BOTTOM OF HOLE 30'			Damp

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

B074

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BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 6" | ELEV.

TEST HOLE 12

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
2					Pt	PEAT 1.7'			Moist
4						Clay - Silty - Sandy - Pebbles		Low	
6					CL	Low-Med. Plastic			Wet
8					Cl		F		Moist
10								Ice	Damp
12									
14								VX	Damp
16									
18						19'			
20						Shale - Sandstone Siltstone - Soft			Damp
22									Damp
24									
26									
28						BOTTOM OF HOLE 30'			Damp

DRY DENSITY (lbs/Ft³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	160+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

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BORROW PIT 147

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 6" | ELEV.

TEST HOLE 13

MILE 777

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					CL	Clay - Sandy - Silty Low-Med. Plastic		
4								
6								
8								
10					Cl	Pebbles		
12								
14						Soft Shale - Sandstone Fragments		
16								
18						18'		
20						Shale-Siltstone-Sandstone -Soft		
22								
24								
26								
28						Soft-Med. Hard BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

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BORROW PIT 148

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

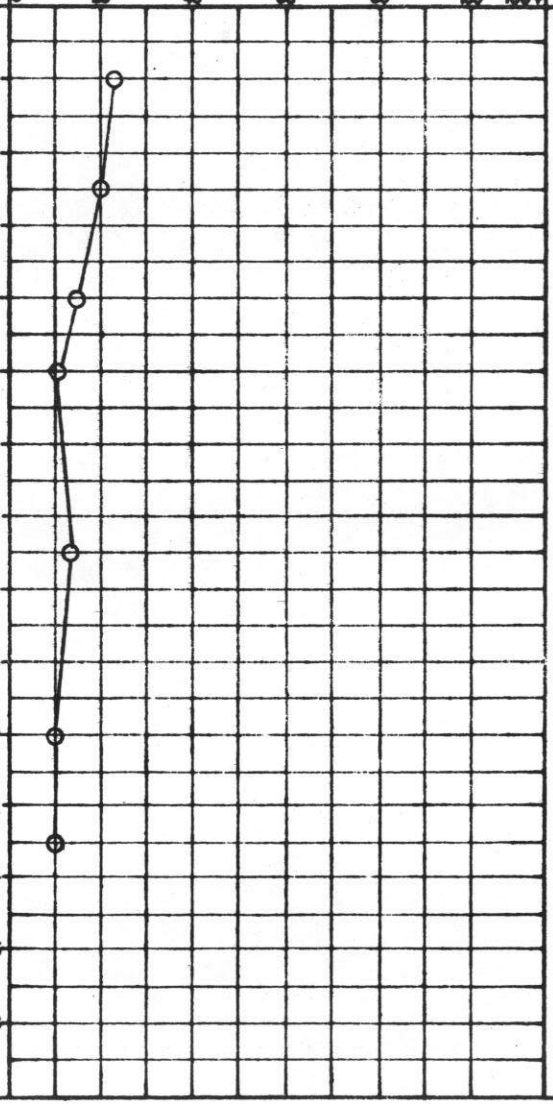
TEST HOLE 1

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2					CL	Clay - Sandy - Silty - Pebbles Low-Med. Plastic	F	Moderate Ice Vc - Vr
8					Cl			Low Ice
18						18'		VX
20						Shale & Sandstone Soft Soft-Med. Hard BOTTOM OF HOLE 25'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	



8074

DS-14-5-74 b

BORROW PIT 148

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

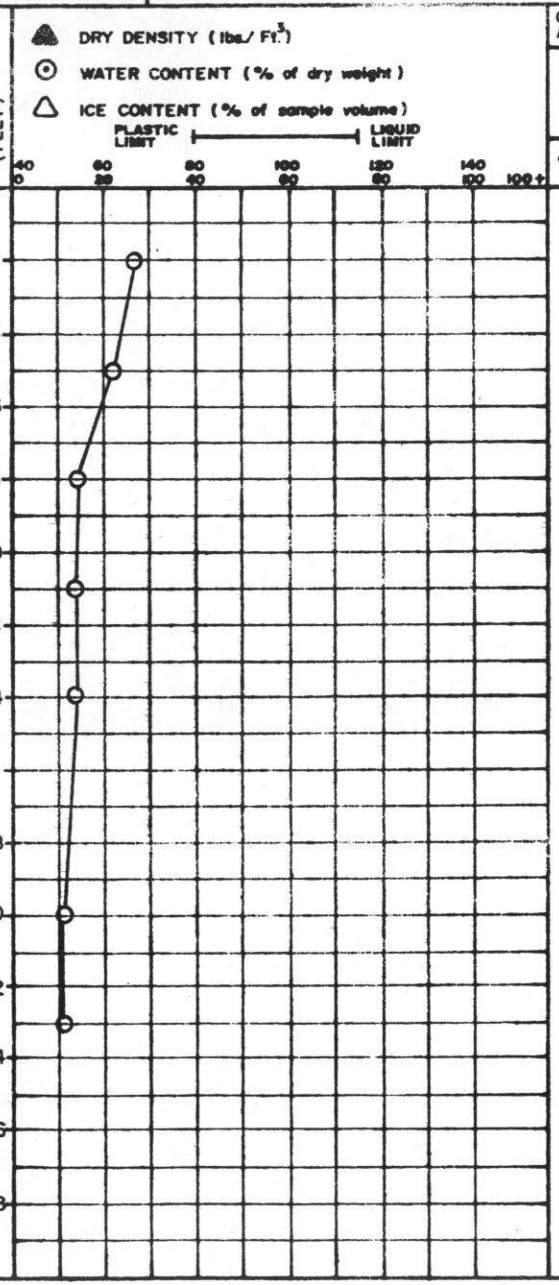
SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2900+00	OFFSET.
TECH. BAINE	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5		Moderate
2						Clay - Silty - Sandy - Pebbles		Ice
4					CL	Low-Med. Plastic		Vc - Vr
6								
8					Cl		F	
10						Silt Stone Sandstone Fragments		Low
12								Ice
14						15'		
16						Shale - SAndstone Siltstone Soft - Med. Hard		VX
18								
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Sat.
				Wet
				Damp
				Damp
				Damp
				Damp
				Damp
				Damp

REMARKS

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

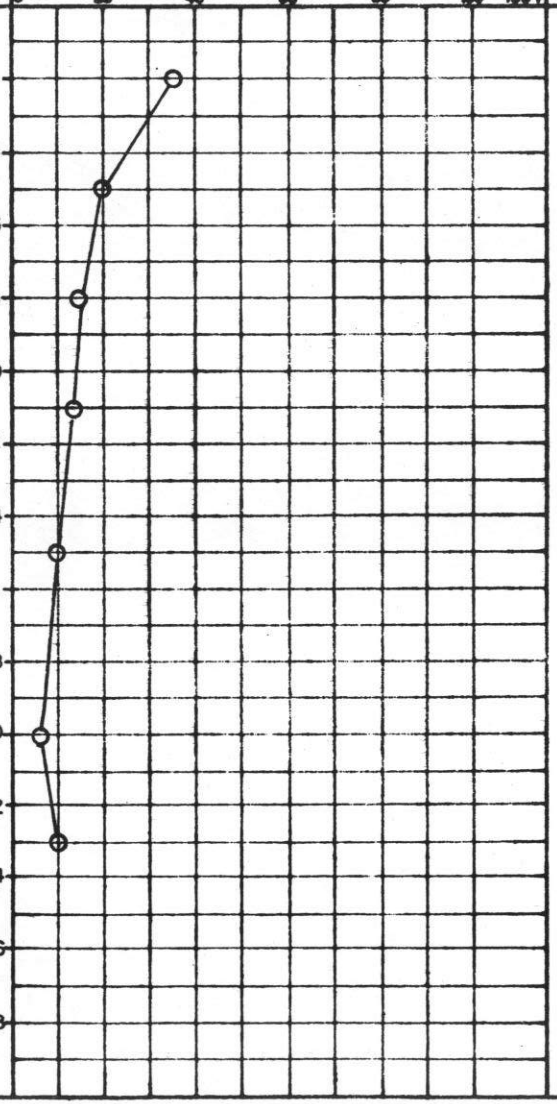
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.5'		High Ice
2						Clay - Silty - Sandy		
4					CL	Low-Med. Plastic		Vs
6								
8					Cl	Boulder Chips	F	Low
10								
12						12' Shale & Sandstone Soft-Broken Down		Ice
14								
16						Shale - Sandstone Soft		VX
18								
20						Shale - Soft		
22						Sandstone Med. Hard Hard		
24								
26						BOTTOM OF HOLE 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Free Water	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

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BORROW PIT 148

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

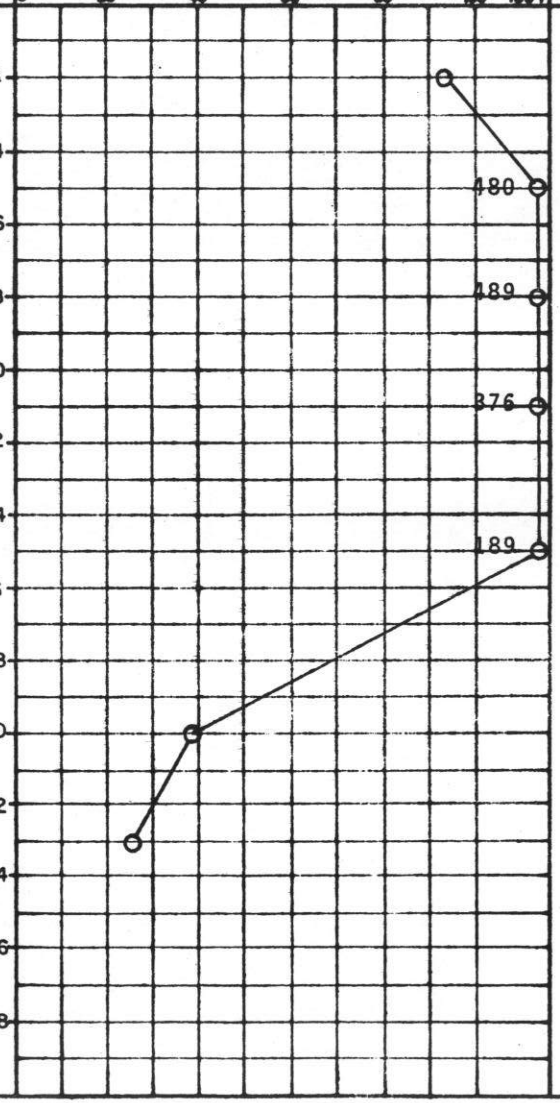
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 4

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					OH	ORGANIC	F	High
4								
6								
8								Ice
10								
12								
14								VS
16								
18					CL OL	17' Clay - Silty Organic		
20								
22					CL Cl	Clay - Sandy Silty Low-Med. Plastic		
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Free Water
4					
6					Wet
8					Free Water
10					Sat.
12					
14					Sat.
16					
18					
20					Wet
22					Wet
24					
26					
28					

REMARKS

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BORROW PIT 148

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 5

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		Moderate
4						Clay - Sandy - Silty		Vc - Vr
6					CL	- Pebbles		To
8						Low-Med. Plastic		
10					Cl			
12								Low
14								
16								Ice
18								
20						Shale Fragments		
22								VX
24						40 - 50%		
26						BOTTOM OF HOLE 25'		
28								

DEPTH (FEET)

DRY DENSITY (lbs./ Ft.^{3})

WATER CONTENT (% of dry weight)

ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
				Wet
				Moist
				Moist
				Moist
				Moist
				Moist
				Damp

REMARKS

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BORROW PIT 148

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

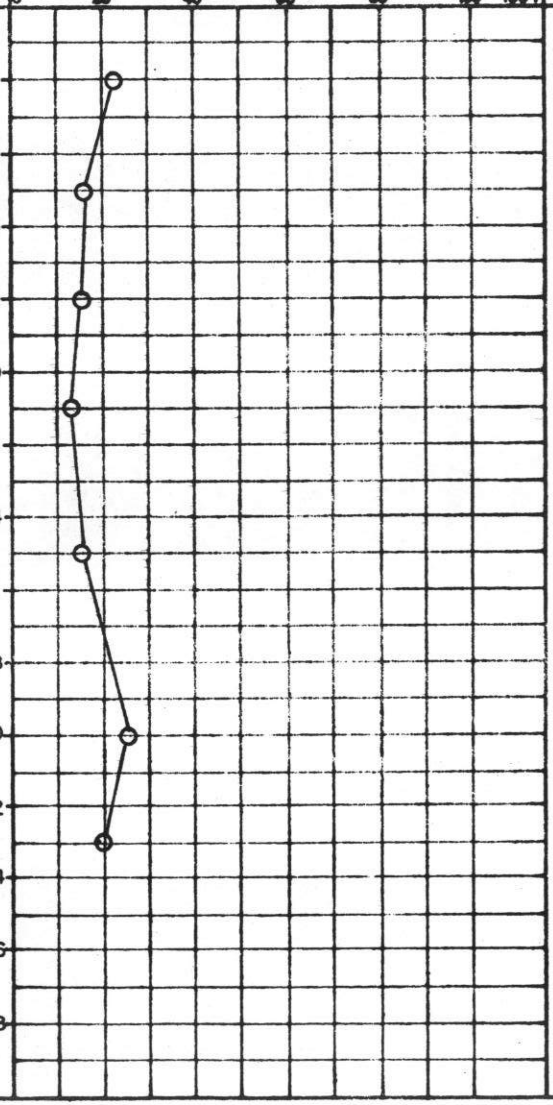
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 6

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		High
2						Clay - Silty Sandy Gravelly		Ice
4								Vs
						Pebbles		Low
6					CL	Low-Med. Plastic		
8					Cl		F	To
10								VX
12								Moderate
14								
16								Ice
18								
20						Sandstone Fragments		Vc - Vr
22						23'		
24						Shale - Sandstone Soft Broken Down BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Wet	
				Moist	
				Moist	
				Moist	
				Wet	
				Moist	

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 7

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						Clay - Sandy - Silty		Moderate
						Low -Med. Plastic		
4					CL			Ice
						- Pebbles		
6					Cl			
8								
								Vc - Vr
10								Low
							F	
12						Sandstone Chips		
						13'		
14						Shale - Soft		Ice
16								
18								
								VX
20						Shale & Sandstone Soft Siltstone		
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

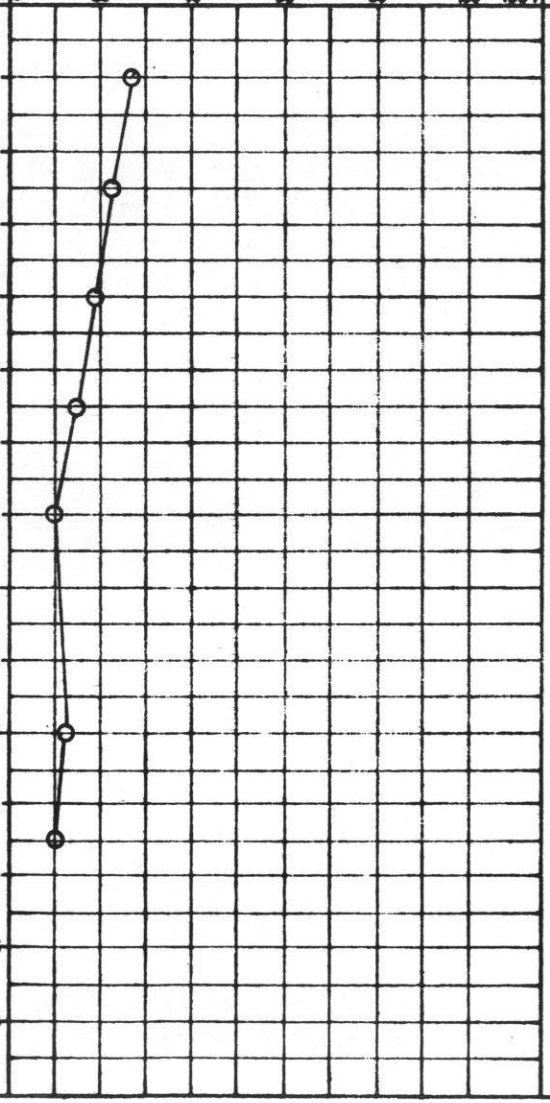
DRY DENSITY (lbs./ Ft.³)

WATER CONTENT (% of dry weight)

ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 0 60 20 80 40 100 60 120 80 140 100 100+



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

B074

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BORROW PIT 148

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

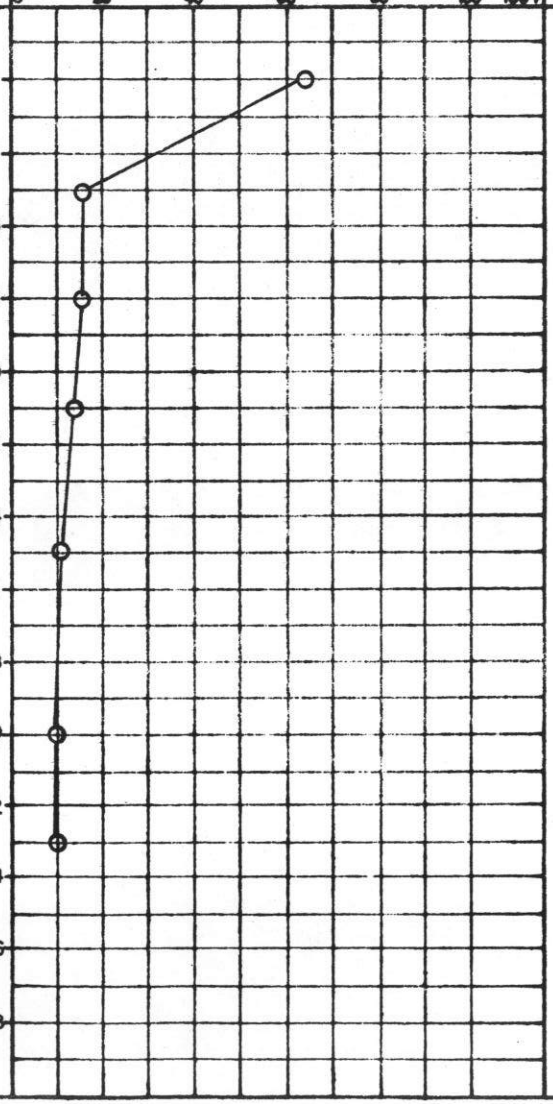
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 8

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		High
2						Clay - Sandy - Silty - Gravelly		Ice
4					CL			VS
6						Boulder Chips Low Plastic		
8						8'		
10						Shale-Sandstone- Soft Broken Down	F	Low
12								Ice
14								
16								
18								VX
20						Soft-Med. Hard		
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

B074

DS-14-5-74 b

BORROW PIT 148

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 9

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1.5'		Moderate To High VC - Vr Ice Vs
4					CL	Clay - Silty Sandy Low-Med. Plastic Shale Fragments		
6					Cl			
8						8' Shale - Sandstone Soft Broken Down	F	Low Ice
10								
12								
14								
16								
18								VX
20						Shale - Soft		
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	40	60	80	100	120	140	100+
	0	20	40	60	80	100	

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Wet	
				Sat.	
				Damp	
				Damp	
				Damp	
				Moist	
				Damp	

B074

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BORROW PIT 148

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 10

MILE 779

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT 2'		Moderate					Wet	
4						Clay - Silty - SAndy - Pebbles	F	Vc - Vr					Moist	
6					CL	Low-Med. Plastic		To						
8													Moist	
10								Low						
12					Cl	Boulder Chips							Moist	
14								Ice						
16						Pebbles							Moist	
18														
20								VX					Moist	
22														
24													Moist	
26						BOTTOM OF HOLE 25'								
28														

2074

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BORROW PIT 148

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

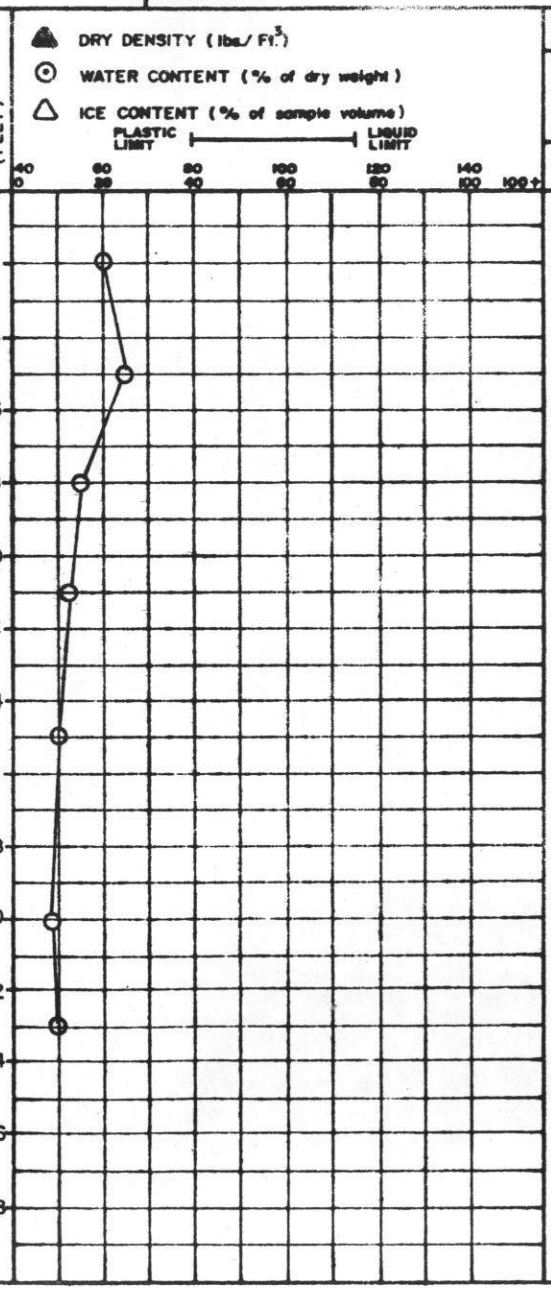
FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 11

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.5'		
2						Clay - Silty - Sandy - Pebbles		Moderate Ice
4					CL			
6					Cl			Vc - Vr
8						9'	F	
10						Shale - Sandstone Soft - Med. Hard		
12								Low
14								
16								Ice
18								
20								VX
22								
24						BOTTOM OF HOLE 25'		
26								
28								



GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Wet	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

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BORROW PIT 148

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. | CHAINAGE. 2900+00 | OFFSET.

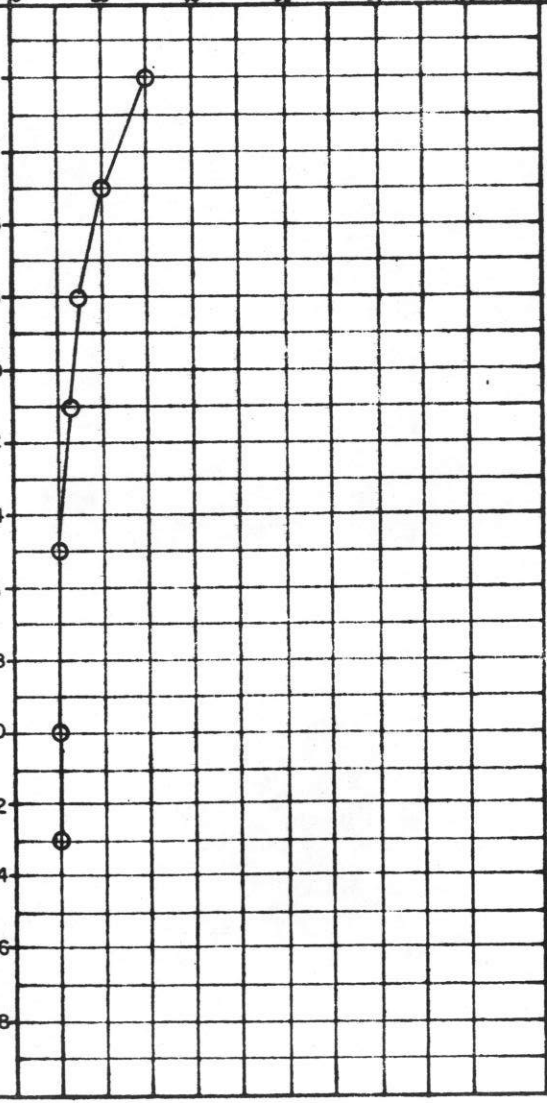
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 12

MILE 779

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		High Vs
2						Clay - Silty - Sandy - Pebbles		To
4					CL	Low-Med. Plastic		Moderate
6					Cl			Ice Vc - Vr
8						Shale-Silt-&Sandstone Fragments 9'	F	
10						Shale & Sandstone Soft		Low
12								
14								Ice
16						Soft-Med. Hard		
18								VX
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Sat.
				Moist
				Damp
				Damp
				Damp
				Damp
				Damp

REMARKS

BORROW PIT 149

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.	TEST HOLE 1
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	MILE 778.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						2'		Moderate
4						CLAY -Silty Org. mat. to 3'		
6					CL	Low plastic Sandy silty		Ice
8						Pebbles	F	Vc - Vr
10						10'		
12						SHALE-SANDSTONE -Soft Siltstone		Low
14								
16								Ice
18								
20								Vx
22								
24								
26						Soft-med. hard		
28						29'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
4						
6					Wet	
8					Wet	
10						
12					Damp	
14						
16					Damp	
18						
20					Damp	
22						
24					Damp	
26						
28					Damp	

BOTTOM OF HOLE - 29'

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BORROW PIT 149

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.

TEST HOLE 2

MILE 778.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
2					Pt	PEAT — 1.5'		Moderate Ice	2
4					CL	CLAY -Silty Sandy			4
6						Pebbles		Vc - Vr	6
8						— 8'			8
10						SHALE -Soft		Low Ice	10
12						SHALE-SILTSTONE-SANDSTONE -Soft-med. hard	F		12
14									14
16								Vx	16
18									18
20									20
22									22
24									24
26									26
28						SHALE -Soft — 29'			28

▲ DRY DENSITY (lbs./ Ft.³)
⊙ WATER CONTENT (% of dry weight)
△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

40 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Free Water	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 29'

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BORROW PIT 149

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.	TEST HOLE 3
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	MILE 778.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1.5'								
2						CLAY -Organic mat. to 3' Silty		High					Wet	
4					CL	Sandy Low-med. plastic		Ice					Free Water	
6					CI	Pebbles		Vs						
8						— 9'							Wet	
10						SHALE-SILTSTONE-SANDSTONE -Soft	F	Low					Moist	
12														
14								Ice					Moist	
16														
18														
20								Vx					Damp	
22														
24														
26						Soft-med. hard							Damp	
28						SHALE -Soft-med. hard								
						— 29'							Damp	

DRY DENSITY (lbs./Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140
0 20 40 60 80 100 100+

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 149

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.

TEST HOLE 4

MILE 778.5

REMARKS

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT — 1½'							
2					CL	CLAY -Sandy Silty Low-med. plastic							Moist
4													Moist
6					CI			Low					
8						— 8'							Moist
10						SHALE-SILTSTONE-SANDSTONE -Soft	F	Ice					Damp
12													
14						SHALE & SANDSTONE -Soft							Damp
16								Vx					
18						Med-hard Sandstone Shale - soft							
20													Damp
22													
24													Damp
26													
28						— 29'							Damp

BOTTOM OF HOLE - 29'

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BORROW PIT 149

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.	TEST HOLE 5
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 778.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1.5'							Moist	
2					CL	CLAY -Silty Sandy Pebbles Soft shale frags.		Moderate Ice Vc - Vr					Wet	
8						— 8'	F						Moist	
10						SHALE -Soft SHALE & SANDSTONE -Soft		Low					Damp	
14						Soft-med. hard		Ice					Damp	
20								Vx					Damp	
22													Damp	
25						— 25'								
26						BOTTOM OF HOLE - 25'								

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160+

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BORROW PIT 149

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.	
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	

TEST HOLE 6

MILE 778.5

REMARKS

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Pt	PEAT		High Ice					Moist
4													Free Water
5'													
6					OL	ORGANIC CLAY -Pebbles		Vs					
7'													
8					CL	CLAY-Sandy silty Silt & Sandstone fragments							Damp
9'													
10						SHALE-SILTSTONE-SANDSTONE -Soft		Low					Damp
12													
14							F	Ice					Damp
16						Soft-med. hard							
18													
20								Vx					Damp
22													
24													
26													Damp
28													
29'													Damp

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 149

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.	TEST HOLE 7
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	MILE 778.5

DRY DENSITY (lbs./ Ft.^{3}) ▲ — WATER CONTENT (% of dry weight) ⊙ — ICE CONTENT (% of sample volume) △

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1.5'		High						
2					CL	CLAY -Sandy Silty Pebbles Gravelly Low plastic		Ice					Sat.	
4													Free Water	
6								Vs						
8						— 8'							Wet	
10					ML SC	SAND-Clayey, silty SILT-Sandy, clayey Sandstone frags. — 11'	F	Moderate Ice Vc - Vr					Moist	
12					CL	CLAY -Sandy Silty Gravelly-Boulder chips		Low						
14													Moist	
16								Ice						
18					CI									
20						Pebbles		Vx					Damp	
22														
24														
26						Sandstone fragments							Damp	
28													Damp	
						— 29'								

BOTTOM OF HOLE - 29'

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BORROW PIT 149

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.	TEST HOLE 8
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 778.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate
2'								
						CLAY -Silty Sandy		Ice
					CI	Pebbles Med. plastic		Vc - Vr
							F	Low
								Ice
14'								
						SHALE-SILTSTONE- SANDSTONE -Soft-med. hard		Vx
25'								
						BOTTOM OF HOLE - 25'		

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Sat.
				Wet
				Moist
				Moist
				Damp
				Damp
				Damp

REMARKS

DS-14-5-74 b

BORROW PIT 149

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.	TEST HOLE 9
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	MILE 778.5

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1.5'								
2					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Moderate Ice					Moist	
4														
6													Wet	
8					CI			Vc - Vr					Moist	
10							F						Damp	
12								Low						
14						— 15'							Damp	
16						SHALE -Soft		Ice						
18														
20						Soft-med. hard		Vx					Damp	
22														
24													Damp	
26														
28						SHALE & SANDSTONE — 29'							Damp	

BOTTOM OF HOLE - 29'

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.	TEST HOLE 10
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	MILE 778.5

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1.5'								
2						CLAY							Moist	
4					CL	-Silty Sandy Low-med. plastic Pebbles		Moderate					Wet	
6								Ice						
8					CI								Wet	
10							F	Vc - Vr						
12						— 11' SHALE-SANDSTONE -Soft							Damp	
14								Low					Damp	
16														
18						Soft-med. hard		Ice						
20													Damp	
22								Vx						
24														
26													Damp	
28						— 29'							Damp	

BOTTOM OF HOLE - 29'

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BORROW PIT 149

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 11

MILE 778.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2						CLAY -Silty Sandy		
4					CL	Pebbles		
6								Low
8					CI	Boulders 7.5'		
10						Low-med. plastic	F	Ice
12								
14						Sandstone fragments — 15'		Vx
16								
18								
20						SHALE & SANDSTONE -Soft-med. hard		
22								
24								
26						— 25' BOTTOM OF HOLE - 25'		
28								

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Moist	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

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BORROW PIT 149

DEPARTMENT OF PUBLIC WORKS, CANADA
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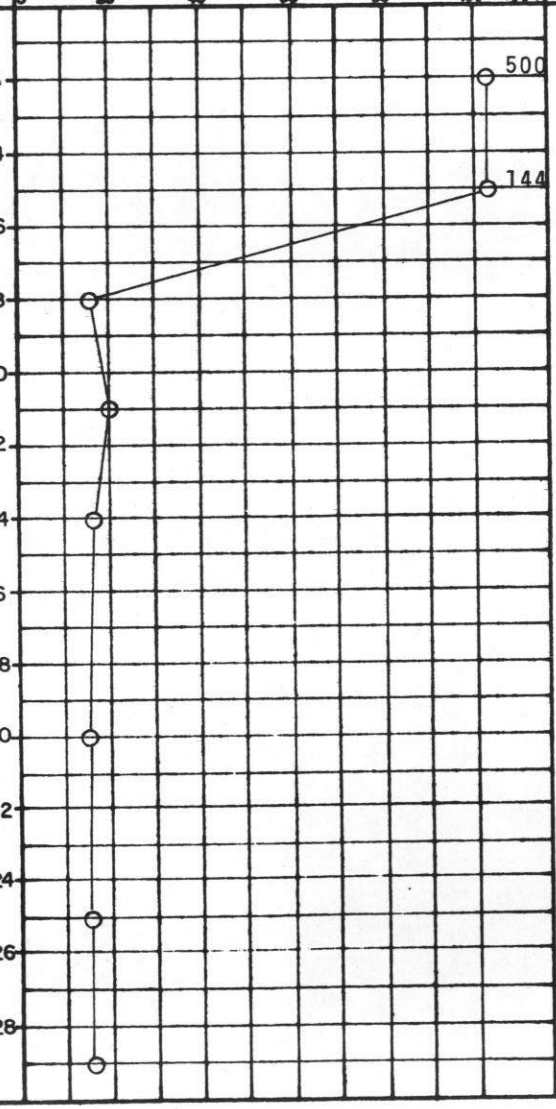
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2892+00	OFFSET.	TEST HOLE 12
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	MILE 778.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–5.5'					Pt	PEAT		High Ice Vs
5.5'–29'						CLAY -Silty Sandy Pebbles Low-med. plastic	F	Low
						Fragment of Soft Shale Siltstone Sandstone Soft to hard		Ice Vx

DRY DENSITY (lbs./ Ft.³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Free Water	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

BOTTOM OF HOLE - 29'

DS-14-5-74 b