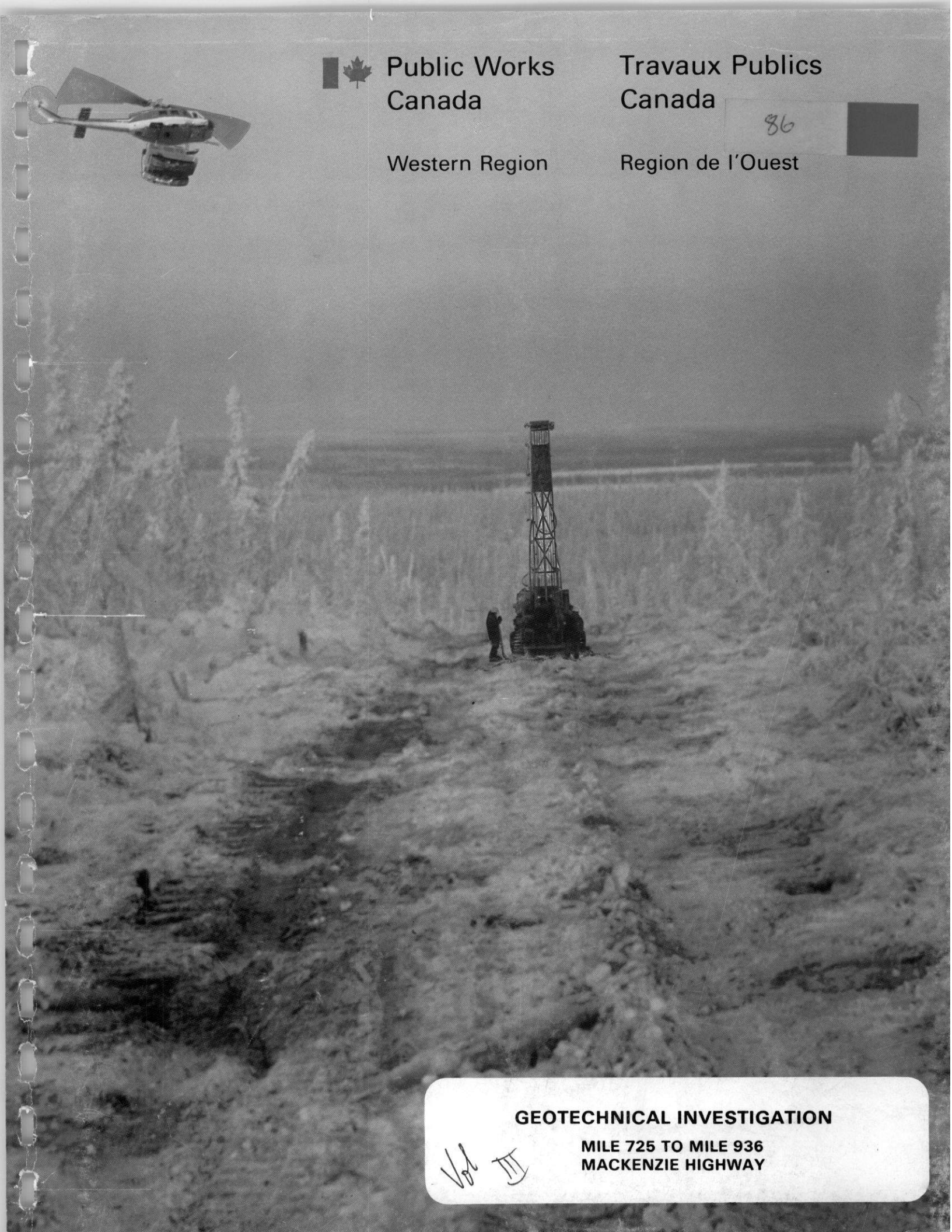


Public Works Canada

Travaux Publics Canada

Western Region

Region de l'Ouest

86

GEOTECHNICAL INVESTIGATION

MILE 725 TO MILE 936 MACKENZIE HIGHWAY

Vol III

7

DEPARTMENT OF PUBLIC WORKS

WESTERN REGION

REPORT ON

GEOTECHNICAL INVESTIGATION

MILE 725 TO MILE 936

MACKENZIE HIGHWAY

VOLUME III

BOREHOLE LOGS AND AIRPHOTO MOSAICS

Mile 747 to Mile 777
Airphoto Mosaic #9 to #16
Centerline borehole logs #881 to #1036
Borrow pits #150 to #172

15

136

BP 154

1 2 3 4 5 6 7 8 9

020

616

816

1°30'

769 2360+11·82

716

910

916

914

913

770 2412+91·82

912

116

BP 151

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

910

606

806

771 2465+71·82

907

1°

906

905

904

772 2518+51·82

903

1°

902

106

BP 150

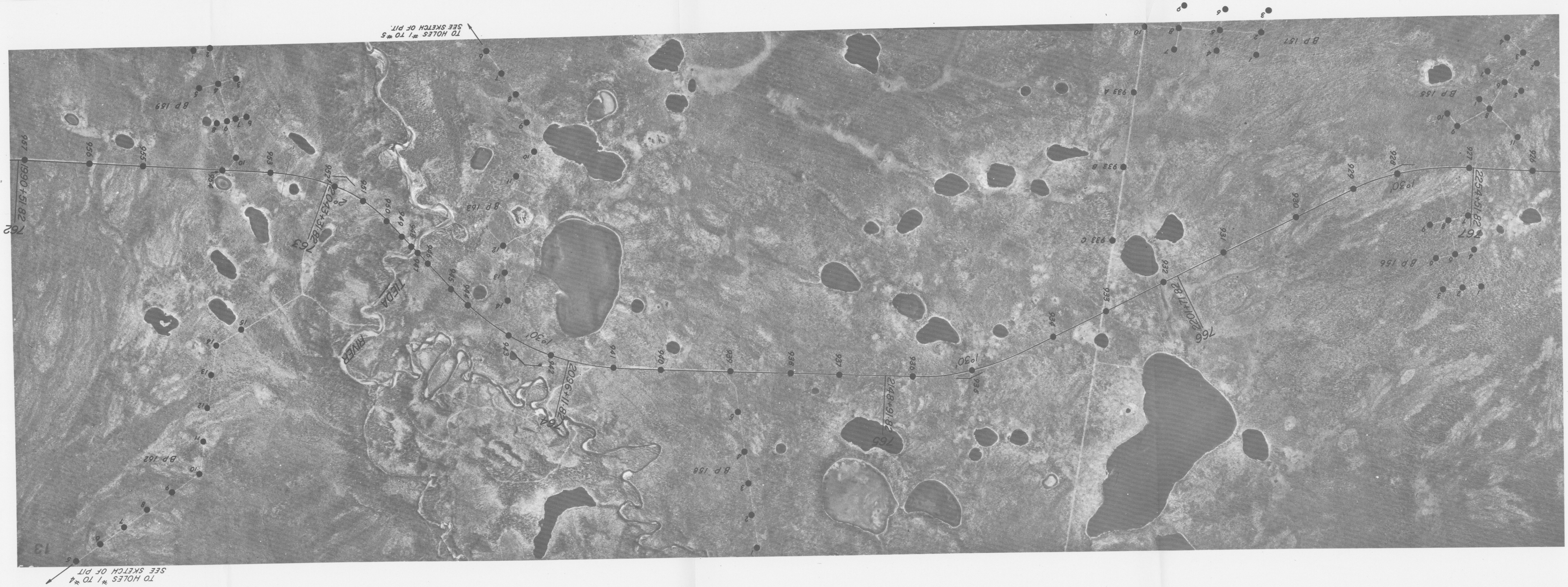
1 2 3 4 5 6 7 8 9 10 11 12

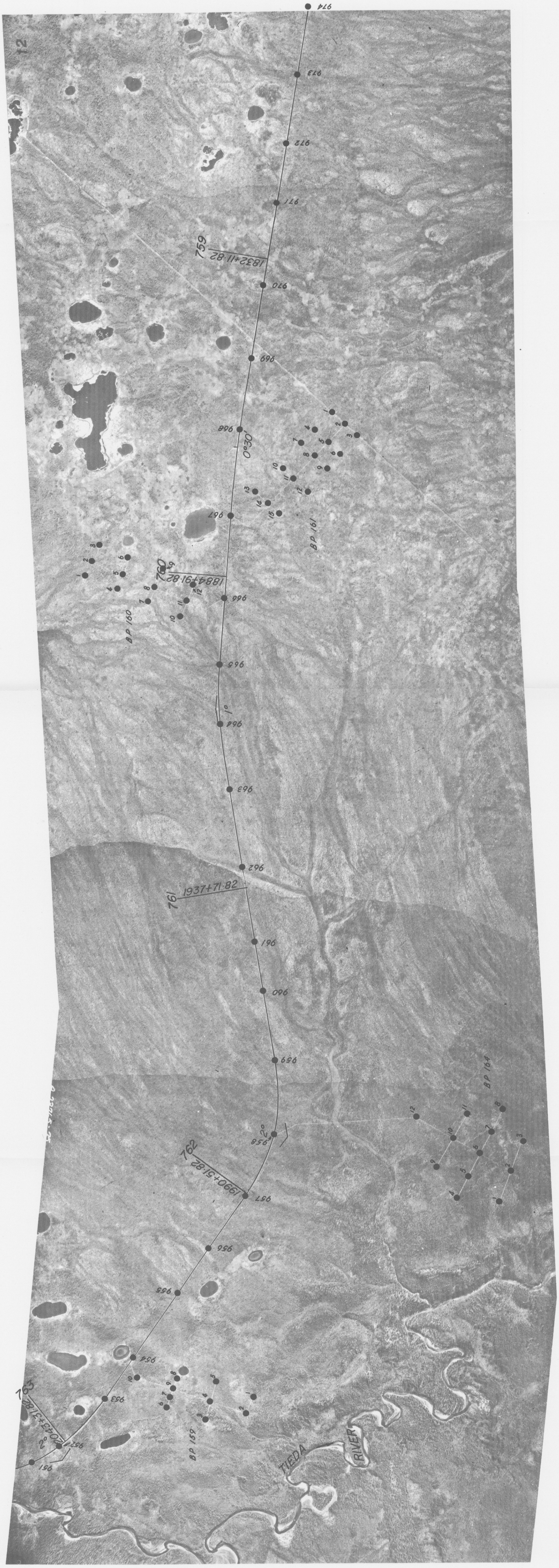
900

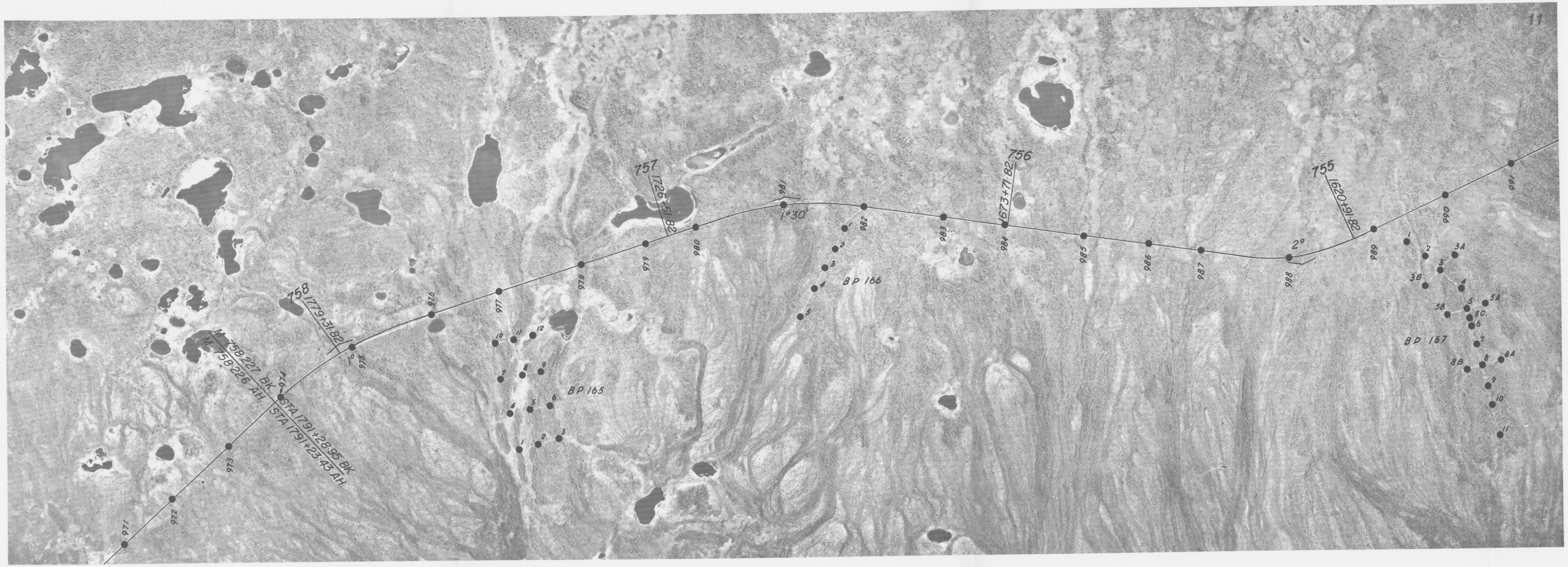
1°

899

773 2571+31·82


TO HOLES #1 TO #5
SEE SKETCH OF PIT.
TO HOLES #1 TO #4
SEE SKETCH OF PIT
RIVER
TIEDA
762
763
765
766
767
939 A
933 B
933 C
B.P. 157
B.P. 153
B.P. 156
B.P. 158
B.P. 162
B.P. 163
B.P. 159
1930+51.82
2043+31.82
2236+11.82
2348+91.82
2201+71.82
2254+51.82
10°30'
13


12
974
973
972
971
759
1832+11.82
970
969
968
030°
967
BP 161
760
1884+91.82
966
BP 160
965
964
963
962
761
1937+71.82
961
960
959
BP 164
958
020°
762
1990+51.82
957
956
955
954
763
2043+31.82
020°
953
952
951
BP 159
TIEDA
RIVER


757
1726+51.82
1°30'
756
1673+71.82
755
1620+91.82
2°
758
1779+31.82
1°
M 758+27 BK.
M 758+26 AH.
STA 1791+28.95 BK.
STA 1791+23.43 AH.
BP 165
BP 166
BP 167
971
972
973
974
975
976
977
978
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983
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988
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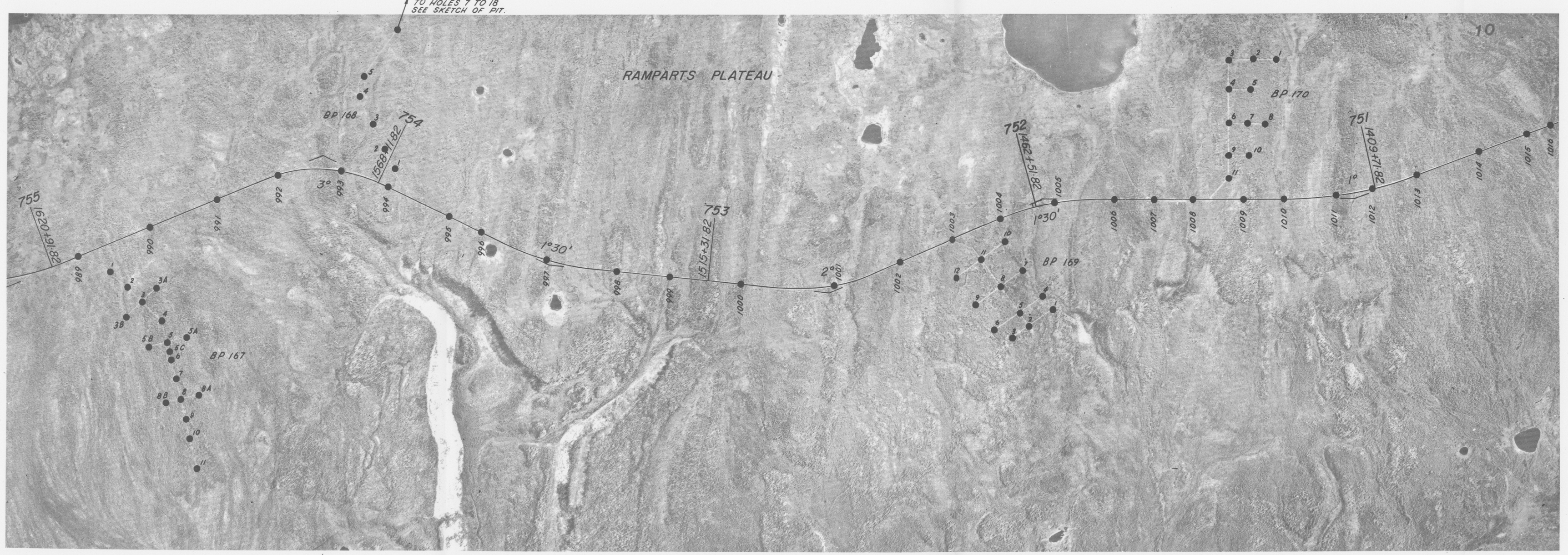
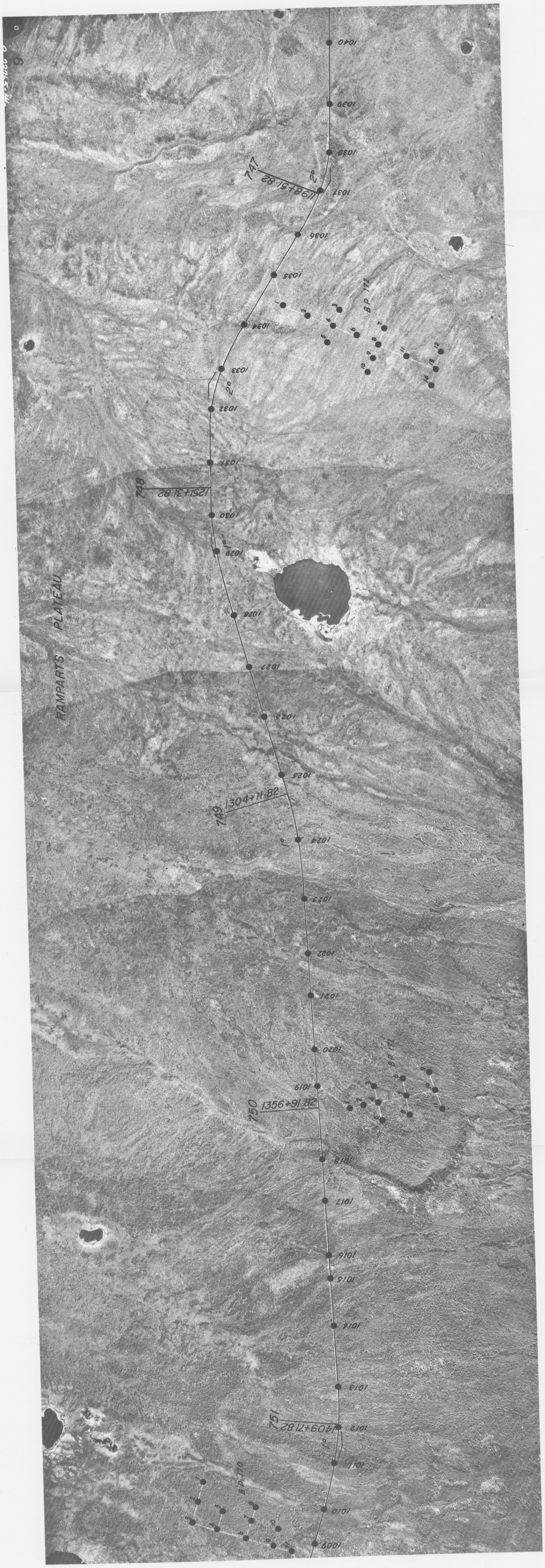
990
991


TO HOLES 7 TO 18
SEE SKETCH OF PIT.
RAMPARTS PLATEAU
BP 168
BP 167
BP 169
BP 170
754
753
752
751
755
1556+11.82
1515+31.82
1462+51.82
1403+71.82
1620+91.82
3°
1°30'
2°
1°30'
1°


RAMPARTS PLATEAU
1040
1039
1038
1037
2°
747
1198+51.82
1036
1035
1034
1033
2°
1032
1031
748
1251+31.82
1030
1029
1028
1027
1026
1025
749
1304+11.82
1024
1023
1022
1021
1020
1019
750
1356+91.82
1018
1017
1016
1015
1014
1013
1012
1011
1010
1009
BP 172
BP 171
BP 170

B.P 146
777
2782+51.82
776
2729+71.82
775
2676+91.82
774
2624+11.82
773
2571+31.82
B.P 147
B.P 152
B.P 150
RAINE CREEK
2°
1°

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. 2781+00	OFFSET. ℄		TEST HOLE 881
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 8"	ELEV.		MILE 776

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 — 1.1'		High Ice						
2						CLAY -Silty Sandy Pebbles Med plastic		Vs					Free Water	
4														
6								Moderate					Wet	
8					CI			Ice						
10							F						Moist	
12													Damp	
14								Vc - Vr						
16													Moist	
18														
20													Moist	
22														
24													Moist	
26														
28						30'							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. 11/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. 2768+00 | OFFSET ℄

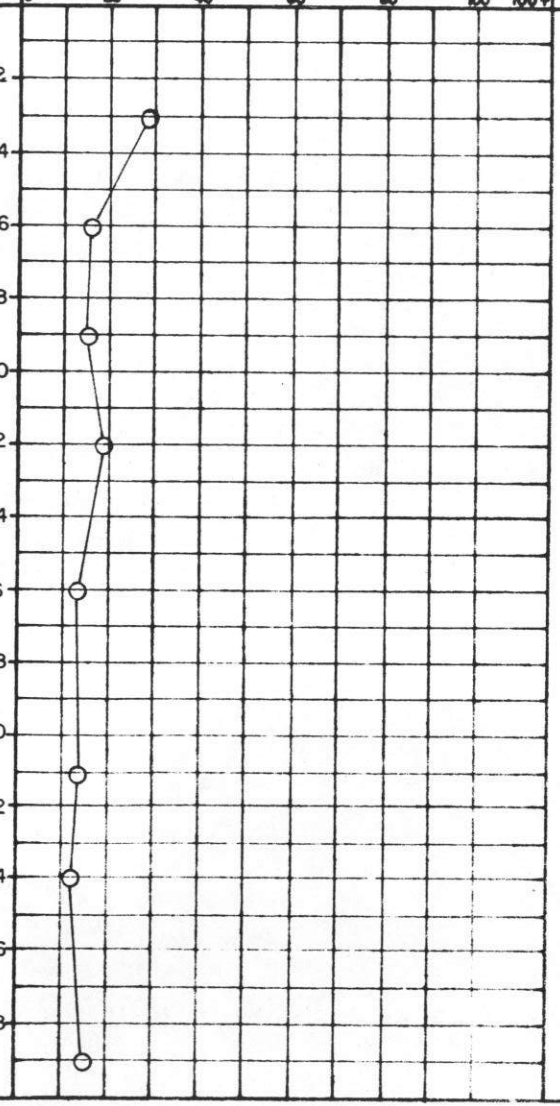
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 7" | ELEV.

TEST HOLE 882

MILE 776

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								
0.9'														
2						CLAY -Organics to 4' Silty Sandy Pebbles		Low					Moist	
4														
6													Damp	
8						Shale & Siltstone Fragments		Ice						
10							F						Moist	
12													Moist	
14								Vx						
15'														
16						SHALE -Silty Soft							Damp	
18														
20						Siltstone								
22													Damp	
24													Damp	
26														
28														
30'													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

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE E OF 882 | OFFSET. 1000 EAST 882

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

TEST HOLE 882-1

MILE 776

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 -Organic to 3' Silty Sandy Pebbles		Ice
4								
6								Vc - Vr
8						Low-med plastic		
10					CL		F	
12					CI			Low
14								Ice
16								
18								Vx
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 KΩ+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	Hole in Bag
				Damp	
				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. 13/3/74	AIRPHOTO NO. A 23335-216	CHAINAGE. SEISMIC LINE	OFFSET. 2000' EAST OF 882	TEST HOLE 882-2
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE	ELEV.	MILE 776

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						CLAY							Wet	
4						-Silty								
						Sandy								
6						Pebbles		Low					Damp	
						Med plastic								
8								Ice					Damp	
10							F							
					CI								Damp	
12								Vx						
14													Damp	
16														
18														
20														
22														
24														
26													Damp	
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. 13/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 3000' EAST OF 882

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

TEST HOLE 882-3

MILE 776

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 Low-med plastic		Moderate Ice Vc - Vr
8					CL			
10					CI		F	Low Ice
18						Gravelly		Vx
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+
40	0	20	40	60	80	100	120	140	160+

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

RELATIVE THAWED MOISTURE CONTENT	REMARKS
Wet	
Wet	
Moist	
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. 13/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET 4000' EAST OF 882

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

TEST HOLE 882-4

MILE 776

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
1.5'								
2–8						CLAY -Organics to 3' Silty Sandy Pebbles		Vc - Vr
8–10					CL			Low Ice
10–29					CI	Low-med plastic		Vx
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				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Moist	
				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. 13/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET 5000' EAST OF 882

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

TEST HOLE 882-5

MILE 776

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 To High Ice
2						CLAY -Silty Sandy Pebbles Low plastic		Vc - Vr
4								
6								Vs
8					CL			Low
10								Ice
12								
14								Vx
16						Cobbles		
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
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Sat.
				Wet
				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. 13/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 6000' EAST OF 882

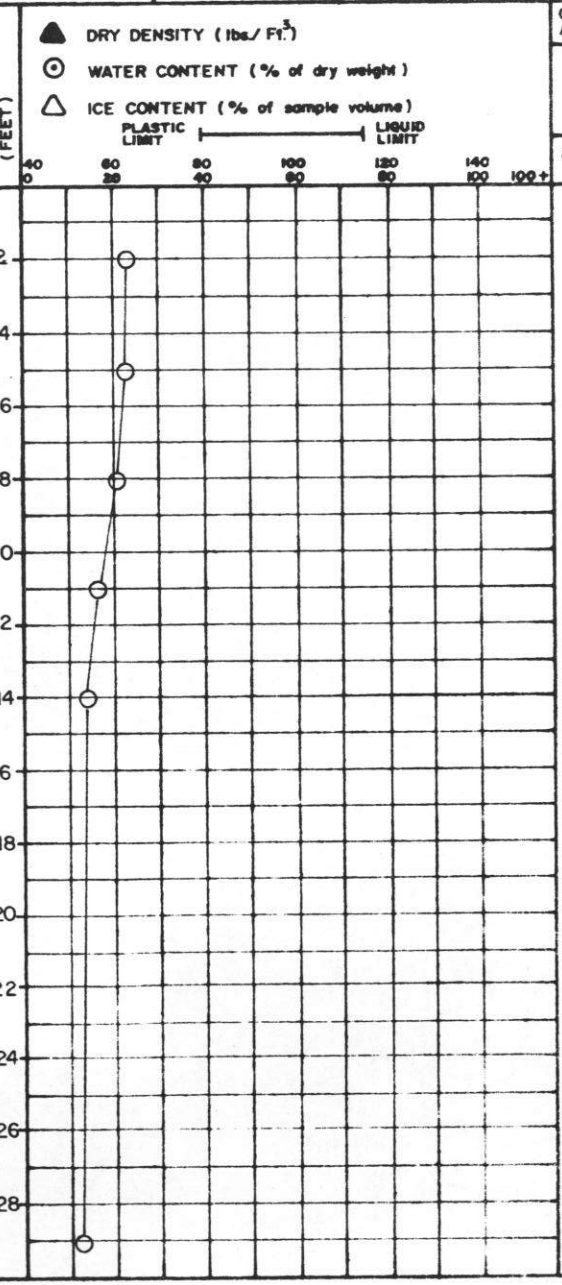
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. SLOPE TO WE T | VEGETATION. SPRUCE | ELEV.

TEST HOLE 882-6

MILE 776

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1½'		High
2						CLAY		Ice
4						-Organics to 3'		
6						Silty		Vs
8						Sandy		
10					CL	Pebbles		Low
12					CI	Low-med plastic	F	Ice
14								Vx
16								
18								
20								
22								
24								
26								
28						29'		

BOTTOM OF HOLE - 29'



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

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 13/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET 7000' EAST OF 882

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

TEST HOLE 882-7

MILE 776

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						.6'		
2						CLAY		
						-Gravelly		
						Silty		
4						Sandy		Low
						Low-med plastic		
6								Ice
					CL			
8								
					CI			
10						Pebbles		Vx
							F	
12								
14								
16								
18								
20						19.5'		
						SHALE		Frozen
22						-Silty		
						Soft		Nbn
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
	%	%	%	%	
					Moist
					Moist
					Damp
					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. 13/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 8000' EAST OF 882

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

TEST HOLE 882-8

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	F	High Ice
1.5'								
2						CLAY -Silty Sandy Pebbles		Vs
4								
6								Low
8					CL	Low-med plastic		Ice
10					CI			
12								
14								Vx
16								
18								
20								
21'								
22						SHALE -Silty Soft-med. hard		
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 %	
				Sat.
				Wet
				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. 14/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET 9000' EAST OF 882

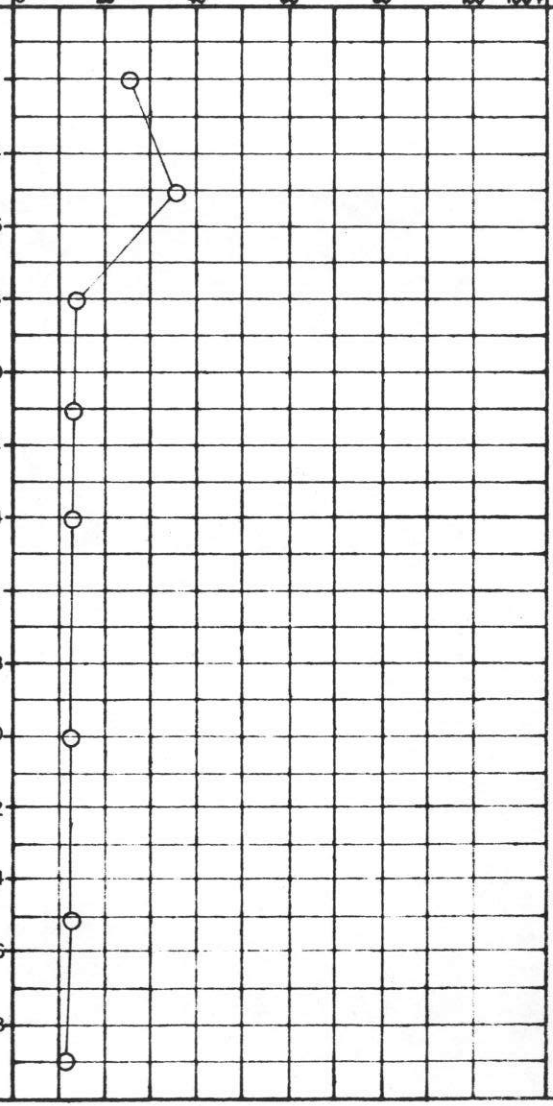
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 882-9

MILE 776

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
1.5'								
2–6						CLAY -Organics to 6' Silty Sandy Pebbles		Vs
6–8					CL	Low-med plastic		Low
8–10								
10–12					CI		F	Ice
12–14								
14–16								Vx
16–17½'								
17½'–29'						SHALE -Silty Soft-med. hard		
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	
				Sat.	
				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. 14/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 10,000' EAST OF

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. SWAMP | VEGETATION. SPARSE SPRUCE | ELEV. 882

TEST HOLE 882-10

MILE 776

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		High Ice	2
4						4.5'			4
6						CLAY -Silty Sandy Pebbles		Vs	6
8						Low-med plastic			8
10					CL				10
12					CI		F		12
14								Low	14
16									16
18								Ice	18
20								Vx	20
22									22
24									24
26									26
28									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+

329

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Free Water
				Free Water
				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. 14/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET 7,400' EAST OF

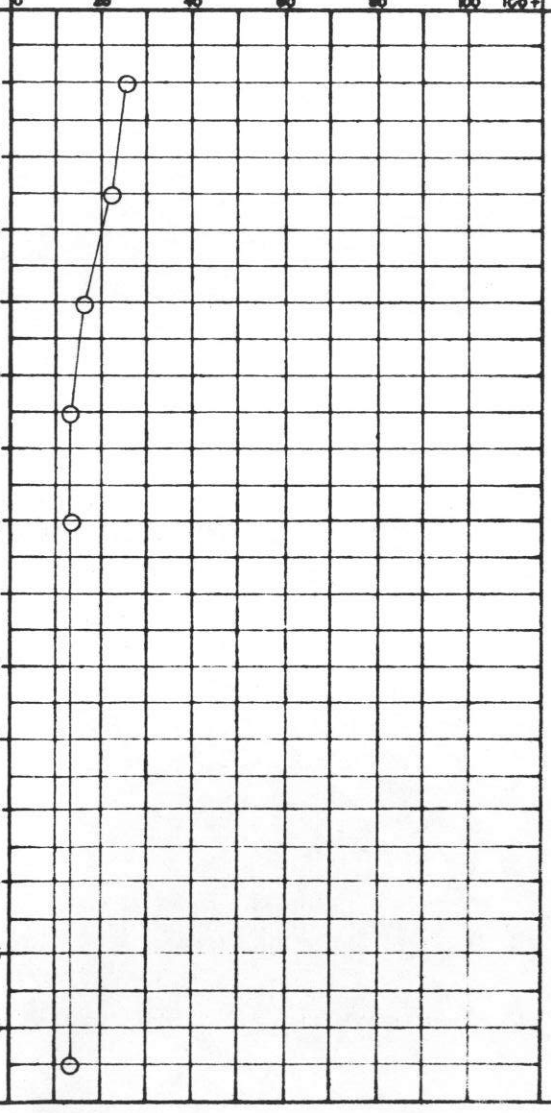
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV. 882

TEST HOLE 882-11

MILE 776

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		Ice
4						-Organics to 3'		
6						Silty		Vc - Vr
8						Sandy		
10					CL	Pebbles		Low
12					CI	Low-med plastic		Ice
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



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Wet	
				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. 14/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 6,700' EAST OF

TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. SLOPE TO WEST | VEGETATION. SPRUCE | ELEV. 882

TEST HOLE 882-12

MILE 776

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1½'		Moderate
2						CLAY		Ice
4						-Silty		
6						Sandy		Vc - Vr
8					CL	Pebbles		
10					CI	Low-med plastic		Low
12							F	
14								Ice
16						Gravelly		
18								Vx
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+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Wet	
				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. 11/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. 2752+00 | OFFSET ℄

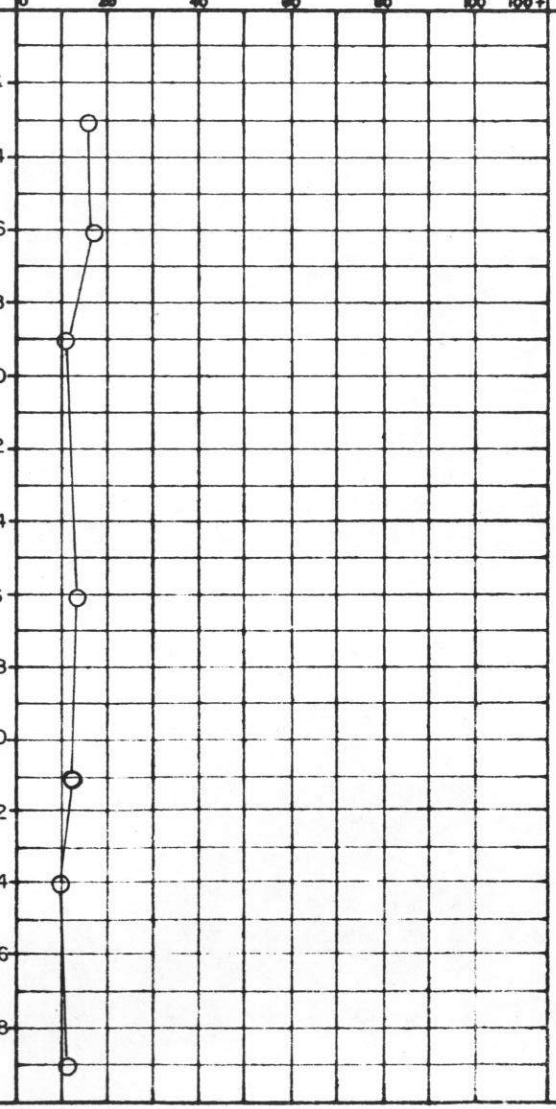
TECH. MCINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 7" | ELEV.

TEST HOLE 883

MILE 776

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		High Ice
4						-Silty Sandy Pebbles-gravelly		
6								Vs
8					CL	Low plastic	F	Low
10								
12								Ice
14								
16						Pebbles		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 %		
				Sat.	
				Sat.	
				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. 13/3/74	AIRPHOTO NO. A 23335-216	CHAINAGE. 2744+00	OFFSET. ℄	TEST HOLE 884
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 776

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

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 — 1½'		High Ice					Sat.	
2						CLAY -Silty Sandy Pebbles								
4														
6						Low plastic		Vs					Free Water	
8					CL			Moderate Ice					Moist	
10														
12							F	Vc - Vr					Moist	
14													Damp	
16								Low Ice						
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. 13/3/74	AIRPHOTO NO. A 23335-216	CHAINAGE. 2736+75	OFFSET. ℄
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 885

MILE 776

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'		High Ice					Sat.	Hole in Bag
4						CLAY -Organic to 4' Silty Sandy								
6								Vs					Free Water	
8						Pebbles		Moderate Ice						
10					CL	Low plastic	F						Wet	
12								Vc - Vr					Moist	
14													Damp	
16								Low Ice						
18														
20														
22								Vx						
24														
26														
28						30'								

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

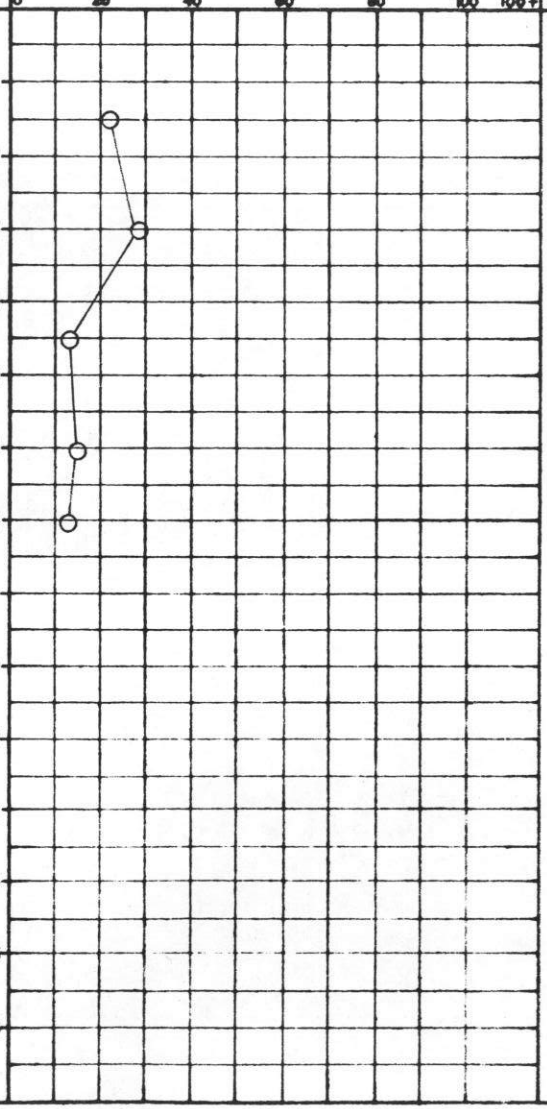
FIELD ENG. N. BURGRESS	DATE DRILLED. 13/3/74	AIRPHOTO NO. A 23335-216	CHAINAGE. 2726+00	OFFSET. ℄
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 886

MILE 775

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 -Organics to 4' Silty Sandy Pebbles Low plastic		
4								
6								Vs
8								Moderate Ice
10					CL		F	Vc - Vr
12								Low 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



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Sat.	
				Wet	
				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. 16/3/74	AIRPHOTO NO. A 23335-216	CHAINAGE. SEISMIC LINE	OFFSET. 1000' WEST OF 886	TEST HOLE 886-1
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	MILE 775

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		Low					Moist	
4						-Silty Sandy Pebbles								
6						Low-med plastic		Ice					Moist	
8					CL								Moist	
10					CI		F						Moist	
12								Vx						
14													Damp	
16														
18														
20														
22														
24														
26														
28														
						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. 16/3/74	AIRPHOTO NO. A 23335-216	CHAINAGE. SEISMIC LINE	OFFSET. 2000' WEST OF 886
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.

TEST HOLE 886-2

MILE 775

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 -Organics to 3' Silty Sandy Pebbles Low plastic		Vs
4								
6								Moderate Ice
8								Vc - Vr
10					CL			
12							F	Low Ice
14								
16								Vx
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 80 100 120 140 160 180+

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

RELATIVE THAWED MOISTURE CONTENT	REMARKS
Moist	
Sat.	
Wet	
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. 16/3/74	AIRPHOTO NO. A 23335-216	CHAINAGE. SEISMIC LINE	OFFSET. 3000' WEST OF 886	TEST HOLE 886-3
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	MILE 775

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
0–2					Pt	PEAT	F	Moderate Ice					Damp	
2–29						CLAY -Organics to 3' Silty Sandy Pebbles Low plastic		Vc - Vr Low Ice Vx					Sat. 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. 16/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 4000' WEST OF 886

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

TEST HOLE 886-4

MILE 775

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
2.5'								
2					CL	CLAY -Silty Sandy Pebbles Low-med plastic	F	Vc - Vr Low Ice
12					CI			Vx
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					Wet	
8					Damp	
10					Damp	
14					Damp	
28					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. 16/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 5000' WEST OF 886

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

TEST HOLE 886-5

MILE 775

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								
4						CLAY -Silty Sandy Pebbles Med plastic		Low
6								
8								Ice
10					CI			Vx
12							F	
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

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	
6						
8					Moist	
10					Moist	
12						
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. 16/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 6000' WEST OF 886

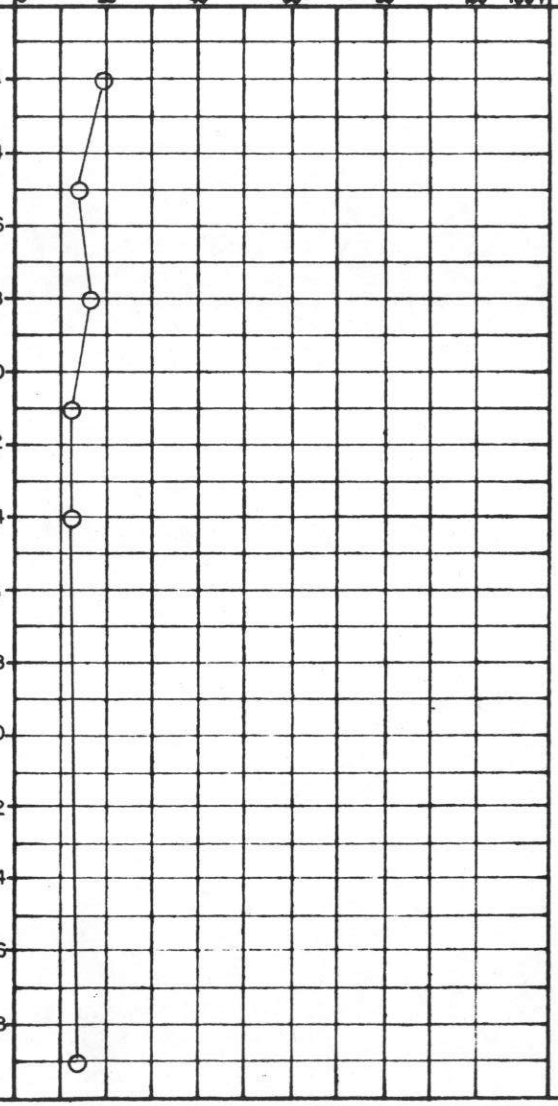
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 886-6

MILE 775

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 Low-med plastic		Low
4								
6								Ice
8					CL			
10					CI		F	
12								Vx
14								
16								
18								
20								
22								
24								
26						26'		
					SC	SAND -Clayey Silty		
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	

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. 16/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 7000' WEST OF 886

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

TEST HOLE 886-7

MILE 775

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
3.5'								
4						CLAY -Silty Sandy Pebbles Low-med plastic		Vs
8								
10					CL CI			Low Ice
14								
18								Vx
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 %		
				Wet	
				Sat.	
				Sat.	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

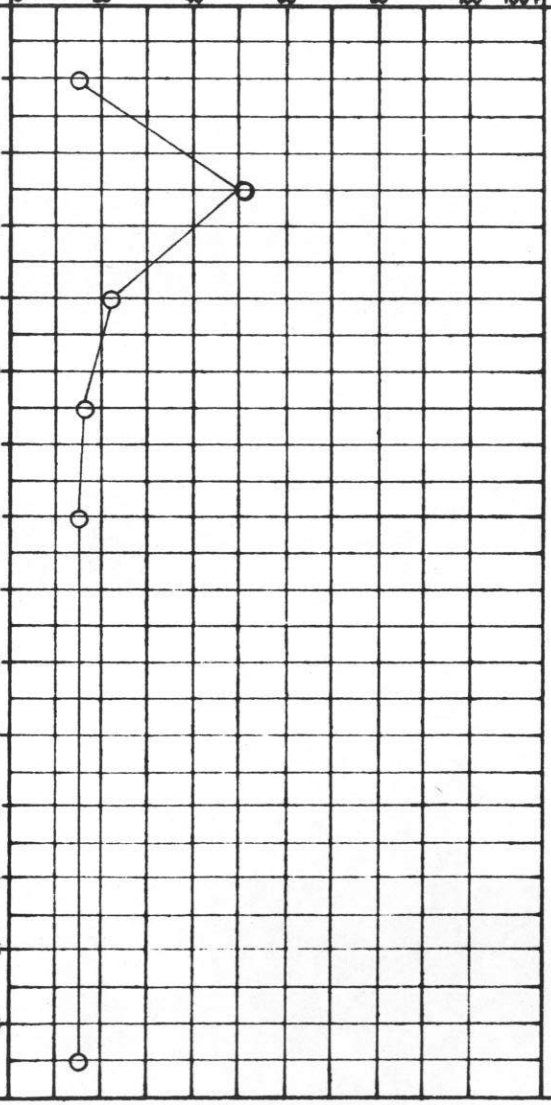
FIELD ENG. N. BURGRESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 8000' WEST OF 886

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

TEST HOLE 886-8

MILE 775

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 Ice
2						CLAY		Vx
4						-Silty		High Ice Vs
6						Sandy		Moderate
8						Pebbles		
10					CL	Low plastic	F	Ice
12								Vc - Vr
14								
16								Low Ice
18								
20								
22								Vx
24								
26								
28						29'		



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
				Damp
				Free Water
				Wet
				Moist
				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. 16/3/74 | AIRPHOTO NO. A 23335-216 | CHAINAGE. SEISMIC LINE | OFFSET. 9000' WEST OF 886

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

TEST HOLE 886-9

MILE 775

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 Ice
2						CLAY -Silty Sandy Pebbles Low-med plastic		Vc - Vr
4								
6								
8								Low
10					CL			
12					CI			Ice
14								
16								Vx
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 80 100 120 140 109+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				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. 13/3/74 | AIRPHOTO NO. A 23335-218 | CHAINAGE 2714+00 | OFFSET. ℄

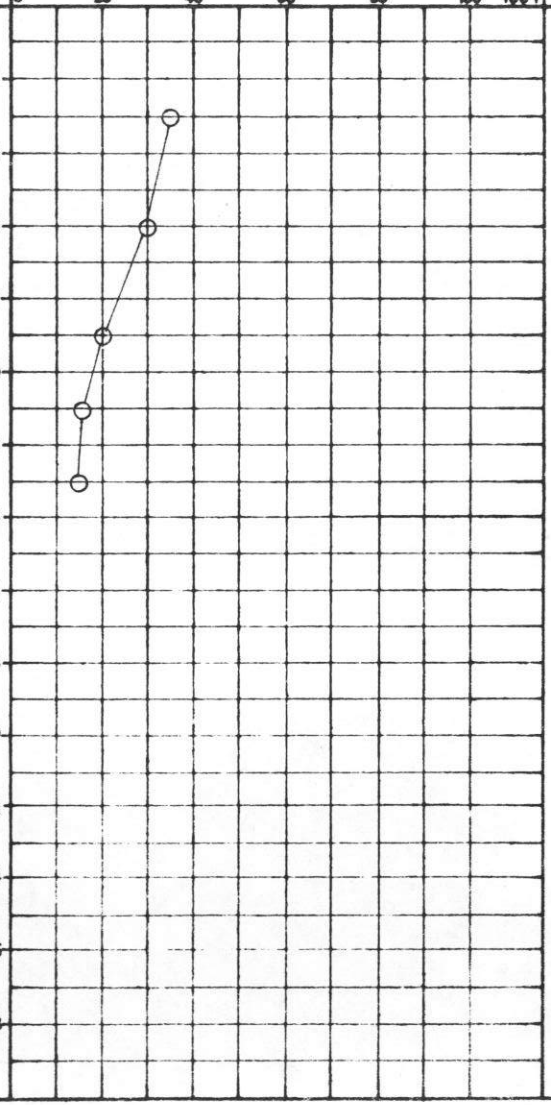
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 887

MILE 775

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 -Silty Sandy Pebbles Low plastic		
4								
6								
8								Moderate Ice Vc - Vr
10					CL		F	
12								Low Ice
14								
16								
18								Vx
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 %		
				Sat.	
				Sat.	
				Moist	
				Moist	
				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. 13/3/74	AIRPHOTO NO. A 23335-218	CHAINAGE. 2704+00	OFFSET. ℄	
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. SLOPE TO NORTH	VEGETATION. SPRUCE	ELEV.	TEST HOLE 888 / MILE 775

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						CLAY -Silty Sandy Pebbles		Ice
4								
6						Low-med plastic		Vc - Vr
8					CL			
10					CI		F	Low
12								
14								Ice
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

0 20 40 60 80 100 120 140 160+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT

Moist
Moist
Moist
Damp
Damp
Humid

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. 13/3/74 | AIRPHOTO NO. A 23335-218 | CHAINAGE. 2696+00 | OFFSET. ℄

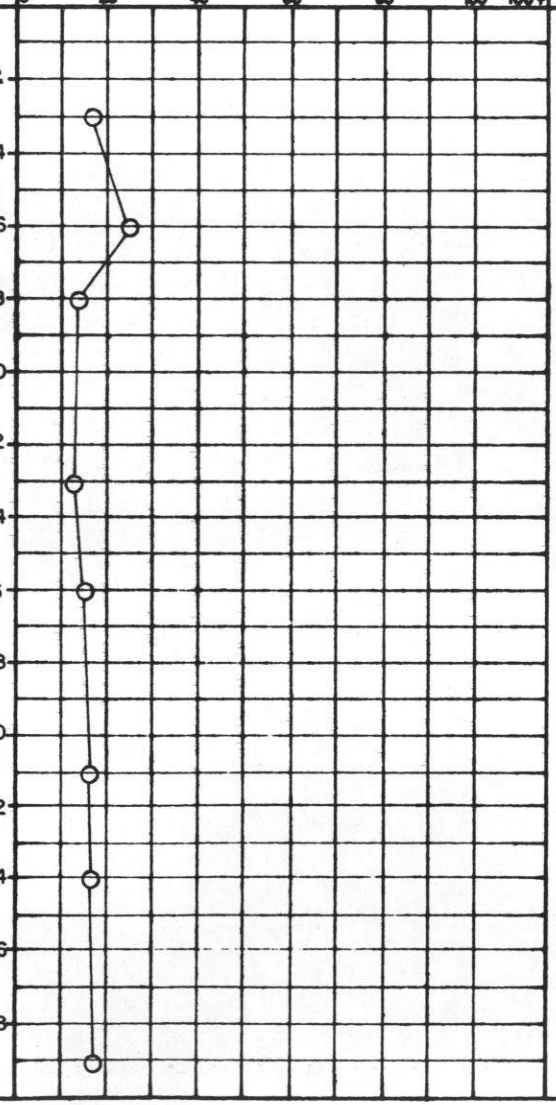
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 3" | ELEV.

TEST HOLE 889

MILE 775

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		Ice
4						-Organics to 4'		
6					CL	Silty Sandy Pebbles Low-med plastic		Vc - Vr
8								
10							F	
12					CI			Low
14								Ice
16								
18								Vx
20								
22								
24					CL	Low plastic		Moderate
26								Ice
28								Vc - Vr
						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	
6					Wet	
8					Damp	
12					Damp	
16					Damp	
22					Damp	
24					Moist	
30					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. 13/3/74 | AIRPHOTO NO. A 23335-218 | CHAINAGE. 2682+00 | OFFSET. ℄

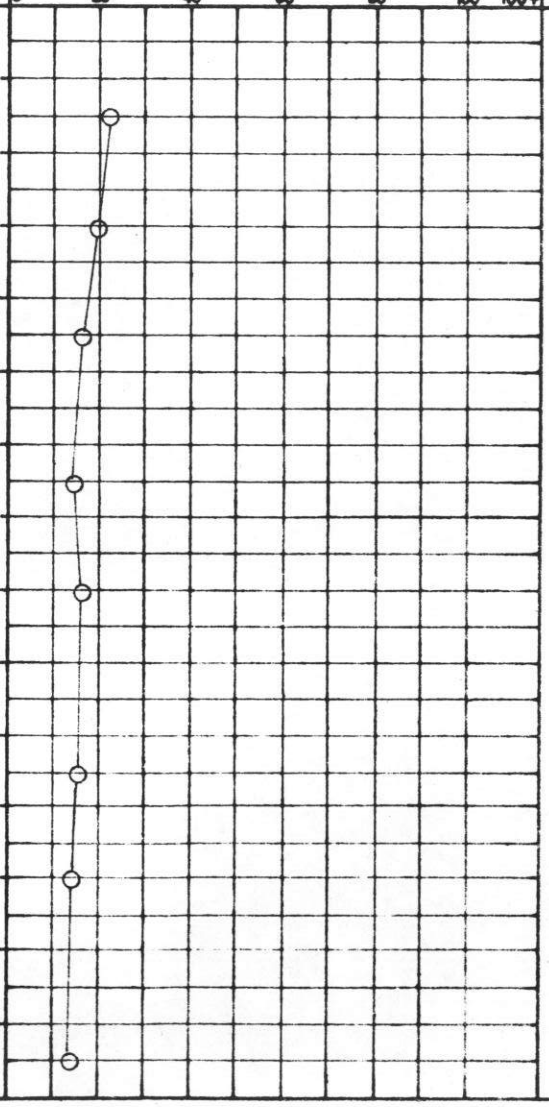
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 5" | ELEV.

TEST HOLE 890

MILE 775

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
2						CLAY -Silty Sandy Pebbles Low plastic		Ice
6								
8								Vc - Vr
10					CL		F	
12								Low
14								
16								Ice
18								
20								Vx
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	
				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. 13/3/74	AIRPHOTO NO. A 23335-218	CHAINAGE. 2668+00	OFFSET. ℄	TEST HOLE 891
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. BURNT OVER	ELEV.	MILE 774

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 Med plastic							Damp	Hole in Bag
4														
6								Low					Moist	
8								Ice					Damp	
10					CI		F							
12													Damp	
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

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. 13/3/74 | AIRPHOTO NO. A 23335-218 | CHAINAGE. 2654+00 | OFFSET. ℄

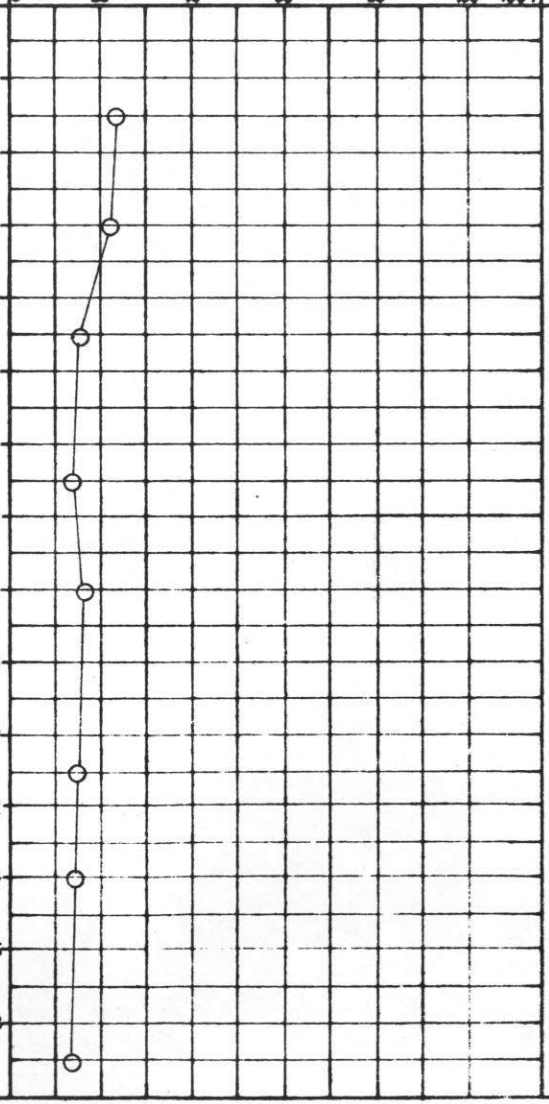
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 5" | ELEV.

TEST HOLE 892

MILE 774

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .8'	F	Moderate Ice
2						CLAY		
4						-Silty		
6						Organics to 4'		Vc - Vr
8					CI	Sandy		
10						Pebbles		
12						Med plastic		Low 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				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				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. 13/3/74 | AIRPHOTO NO. A 23335-220 | CHAINAGE. 2644+00 | OFFSET. ℄

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

TEST HOLE 893

MILE 774

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'		Moderate
2						CLAY		Ice
4						-Silty		
6						Sandy		Vc - Vr
8					CL	Pebbles Low-med plastic		
10					CI		F	Low
12								Ice
14								
16								Vx
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

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

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Wet	
				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. 13/3/74 | AIRPHOTO NO. A 23335-220 | CHAINAGE. 2632+00 | OFFSET ℄

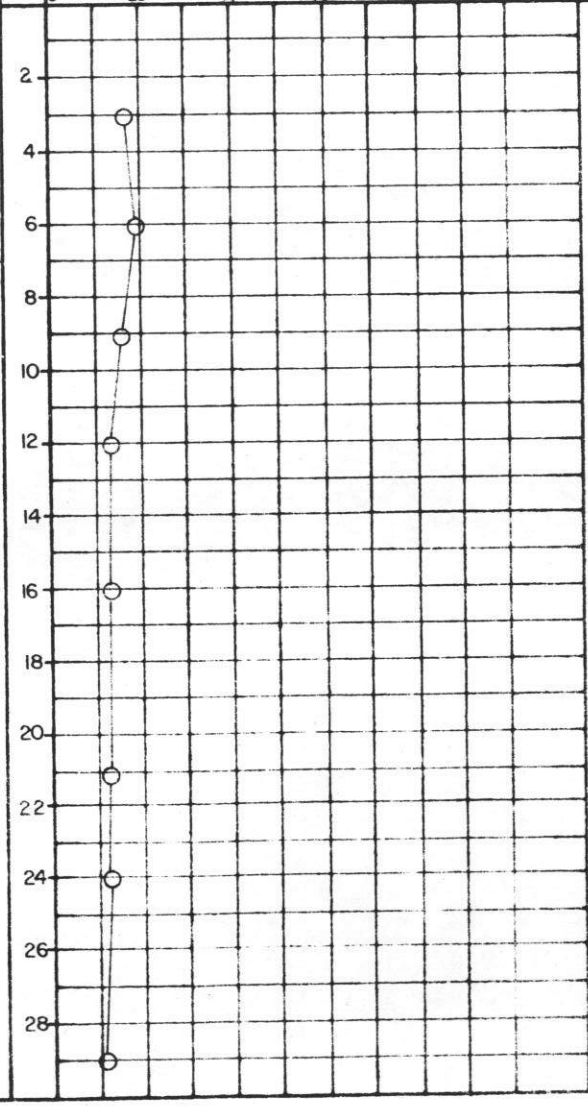
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE | ELEV.

TEST HOLE 894

MILE 774

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 Ice
2						CLAY -Silty Sandy Pebbles Low plastic		Vc - Vr
8					CL		F	Low Ice
16								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 %		
				Sat.	
				Moist	
				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. 13/3/74 | AIRPHOTO NO. A 23335-220 | CHAINAGE. 2622+00 | OFFSET ℄

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

TEST HOLE 895

MILE 773

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 -Silty Sandy Pebbles Med plastic		Moderate Ice Vc - Vr
10					CI		F	
11'								
12					CI	SHALE -Sandstone CLAY -Soft fragments		
15'								
16						SHALE -Soft SANDSTONE -Soft		Low Ice Vx
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 %		
-73-		18	9	Moist	
-79-		20	1	Wet	
-80-		15	5	Moist	
-89-		11	0	Damp	
-2-		41	57	Humid	Dry Sieved
-2-		49	49	Humid	" "
-1-		40	59	Damp	" "
-4-		46	50	Humid	" "

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

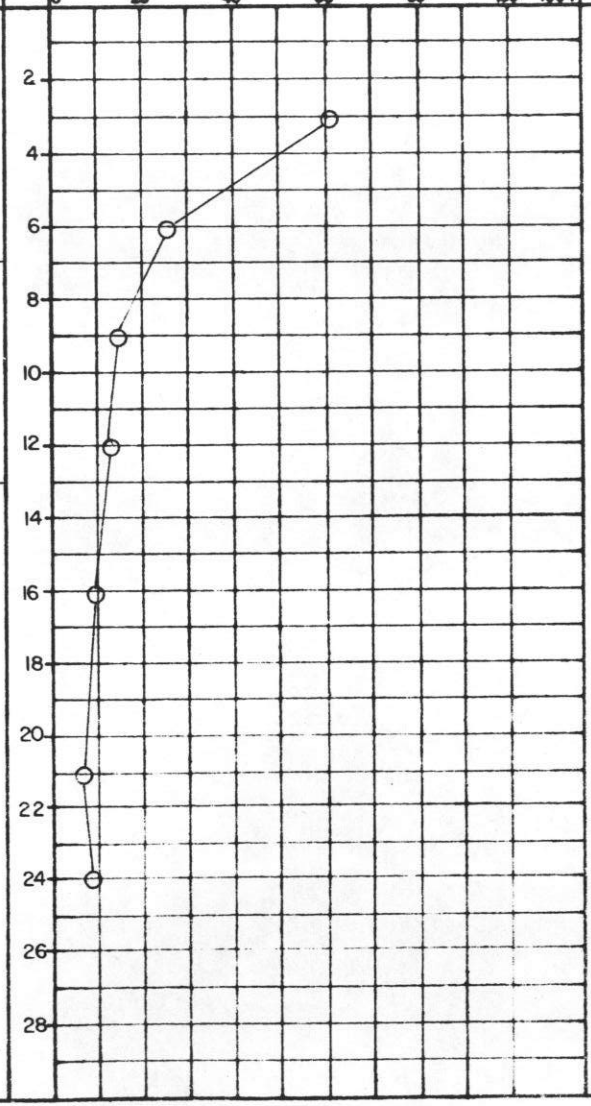
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 14/3/74	AIRPHOTO NO. A 23335-220	CHAINAGE. 2614+00	OFFSET. ℄	TEST HOLE 896
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 4"	ELEV.	MILE 773

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 -Silty Sandy Pebbles Low plastic 50% shale fragments Soft		Vs
6								Low Ice
10						10' SHALE -Soft	F	Vx
12								
14						Sandstone hard		Frozen Nbn
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	
				Humid	
				Humid	
				Humid	

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. 14/3/74 | AIRPHOTO NO. A 23335-220 | CHAINAGE. 2602+00 | OFFSET ℄

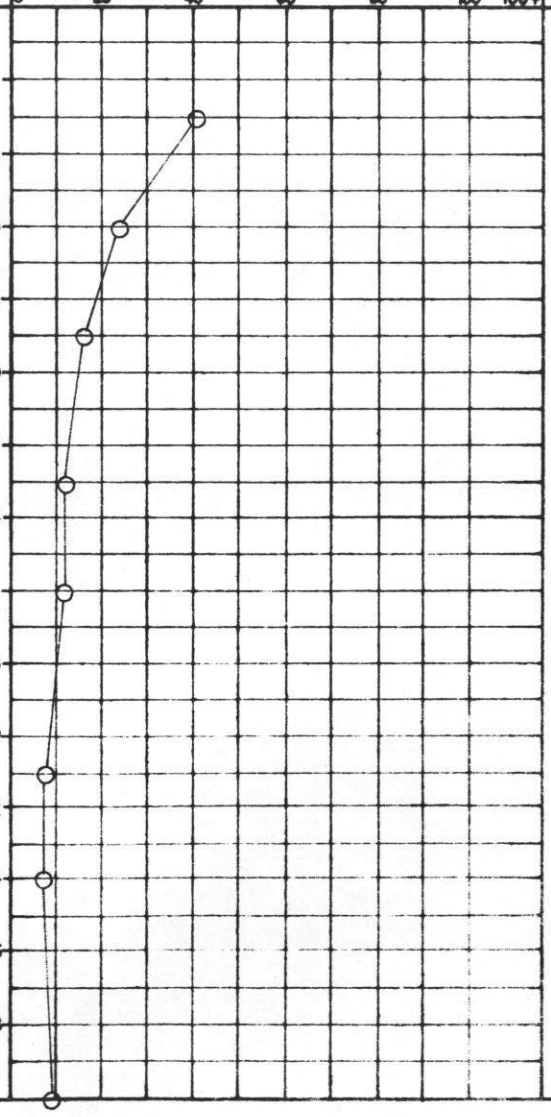
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 3" | ELEV.

TEST HOLE 897

MILE 773

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					CL CI	CLAY -Silty Sandy Pebbles Low-med plastic Shale fragments		Moderate Ice Vc - Vr
10						11'	F	
12						SHALE -Silty Soft		Low Ice
18								Vx
20						Siltstone-shale		
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	
				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. 14/3/74 | AIRPHOTO NO. A 23335-220 | CHAINAGE. 2587+00 | OFFSET. ℄

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

TEST HOLE 898

MILE 773

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		
4								
6					CI	Low-med plastic		Low
8								
10					CI		F	Ice
12								Vx
14						Gravelly — 13.5'		
16						SHALE -Silty Soft		
18								
20								
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

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
6					Wet	
10					Damp	
14					Damp	
16					Damp	
22					Damp	
24					Damp	
30					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. 14/3/74 | AIRPHOTO NO. A 23335-220 | CHAINAGE. 2574+00 | OFFSET ℄

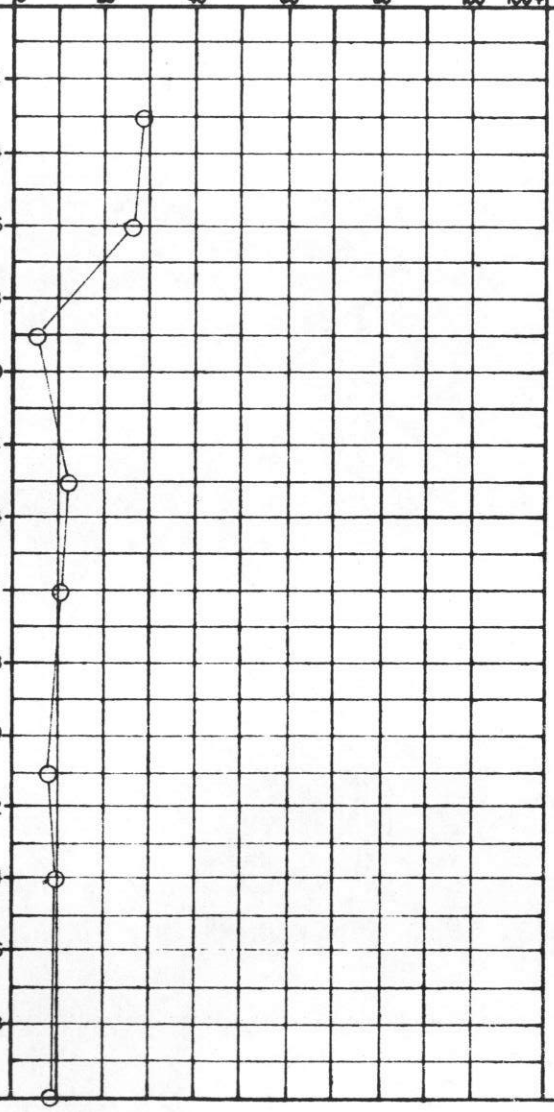
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 4" | ELEV.

TEST HOLE 899

MILE 773

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
1.1'								
2					CL	CLAY -Silty Sandy Pebbles		Vs
4								
6					CI	Low-med plastic		Moderate Ice Vc - Vr
8'								
8						SHALE -Silty Soft-med. hard		Low
10								
12							F	Ice
14								
16								Vx
18								
20								
22								
24								
26								
28								
30'						Siltstone & shale		

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	
				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. 14/3/74 | AIRPHOTO NO. A 23335-222 | CHAINAGE. 2560+00 | OFFSET. ℄

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

TEST HOLE 900

MILE 882

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
0.9'								
2					CL	CLAY -Organics to 4' Silty Sandy Pebbles Low plastic		Low Ice
10½'						SHALE -Silty Soft-med. hard	F	Vx
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 (2')	
				Wet (6')	
				Moist (8')	
				Damp (12')	
				Damp (16')	
				Damp (22')	
				Damp (24')	
				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. 14/3/74	AIRPHOTO NO. A 23335-222	CHAINAGE. 2548+00	OFFSET ℄	TEST HOLE 901
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 5"	ELEV.	MILE 772

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						CLAY							Moist	
						-Silty								
4						Sandy								
						Pebbles								
6					CI	Med plastic		Low					Moist	
8													Moist	
10								Ice						
						Shale fragments	F							
12													Moist	
14								Vx						
16													Damp	
18														
						19'								
20						SHALE							Damp	
						-Silty								
22						Soft-hard								
24													Damp	
26														
28														
						30'							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. 14/3/74 | AIRPHOTO NO. A 23335-222 | CHAINAGE. 2533+00 | OFFSET. ℄

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

TEST HOLE 902

MILE 772

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						
1.2'						CLAY -Silty Sandy Pebbles Med plastic		Vc - Vr					Moist	
6													Moist	
8								Low					Moist	
10						Gravelly	F							
12								Ice					Damp	
16								Vx					Damp	
20													Damp	
24													Damp	
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 kg/cm²+
0 20 40 60 80 100

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. 14/3/74	AIRPHOTO NO. A 23335-222	CHAINAGE. 2521+00	OFFSET. ℄	TEST HOLE 903
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 772

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 | K20+

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					CI	CLAY -Silty Sandy Pebbles Med plastic	F	Low					Damp	
4														
6								Ice					Moist	
8														
10								Vx					Damp	
12						— 11.5'							Damp	
						SHALE-Siltstone Soft-hard							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. 14/3/74 | AIRPHOTO NO. A 23335-222 | CHAINAGE. 2512+00 | OFFSET ℄

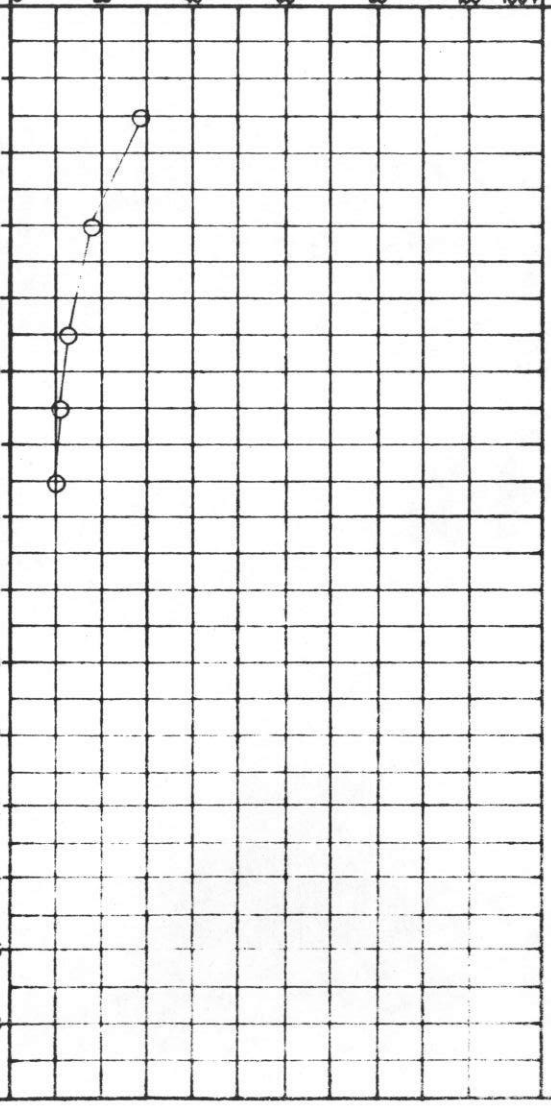
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 904

MILE 771

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT	F	Moderate Ice Vc - Vr
						3'		
4					CI	CLAY -Silty Sandy Pebbles Med plastic		
6								Low Ice
8								
						9'		
10						SHALE -Siltstone Soft-hard		Vx
12								
						14'		
14						BOTTOM OF HOLE - 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 %		
				Damp	
				Moist	
				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. 14/3/74 | AIRPHOTO NO. A 23335-222 | CHAINAGE. 2502+00 | OFFSET. ℄

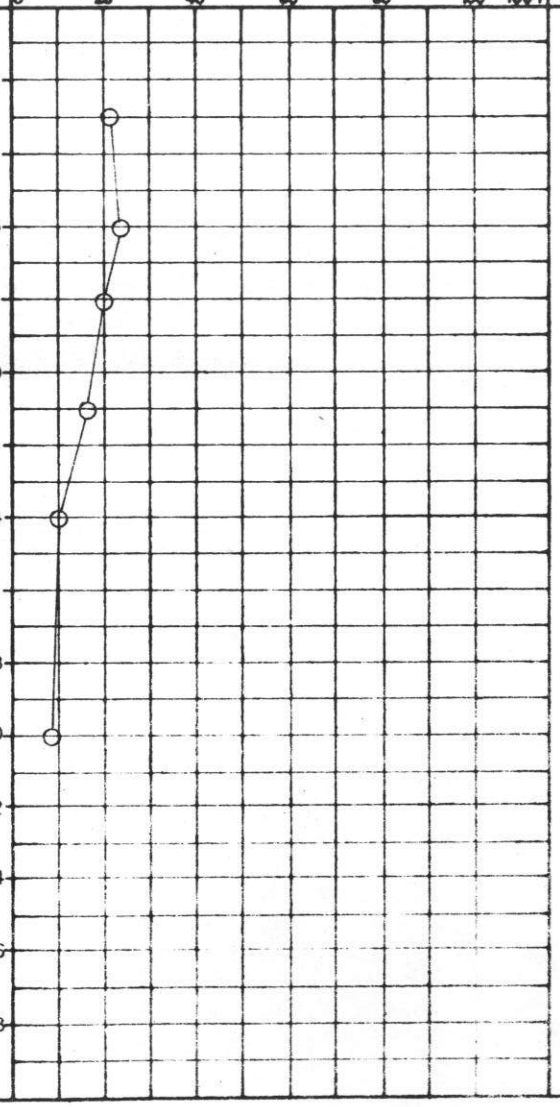
TECH. PRONYCH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. LEVEL | VEGETATION. SPRUCE | ELEV.

TEST HOLE 905

MILE 771

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate
						1½'		
2						CLAY		Ice
4						-Organics to 3'		
						Silty		
						Sandy		Vc - Vr
6					CL	Pebbles		
8					CI	Low-med plastic		Low
10							F	
						Shale fragments 50%		Ice
12						12'		
						SHALE		
14						-Silty		
						Soft-hard		
16								Vx
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



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				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. 14/3/74	AIRPHOTO NO. A 23334-236	CHAINAGE. 2489+00	OFFSET. ℄
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. SLOPE TO SOUTH	VEGETATION. SPRUCE	ELEV.

TEST HOLE 906

MILE 771

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+

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	0					Moist	
2					SC	SAND -Clayey Silty Pebbles — 4'			2						
4									4					Wet	
6						CLAY -Silty Sandy Pebbles Med plastic		Vc - Vr	6						
8									8					Damp	
10							F	Low Ice	10					Damp	
12					CI				12						
14									14					Damp	
16								Vx	16						
18									18						
20									20						
22									22						
24									24						
26									26						
28									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. 14/3/74 | AIRPHOTO NO. A 23334-236 | CHAINAGE. 2476+50 | OFFSET. ℄

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

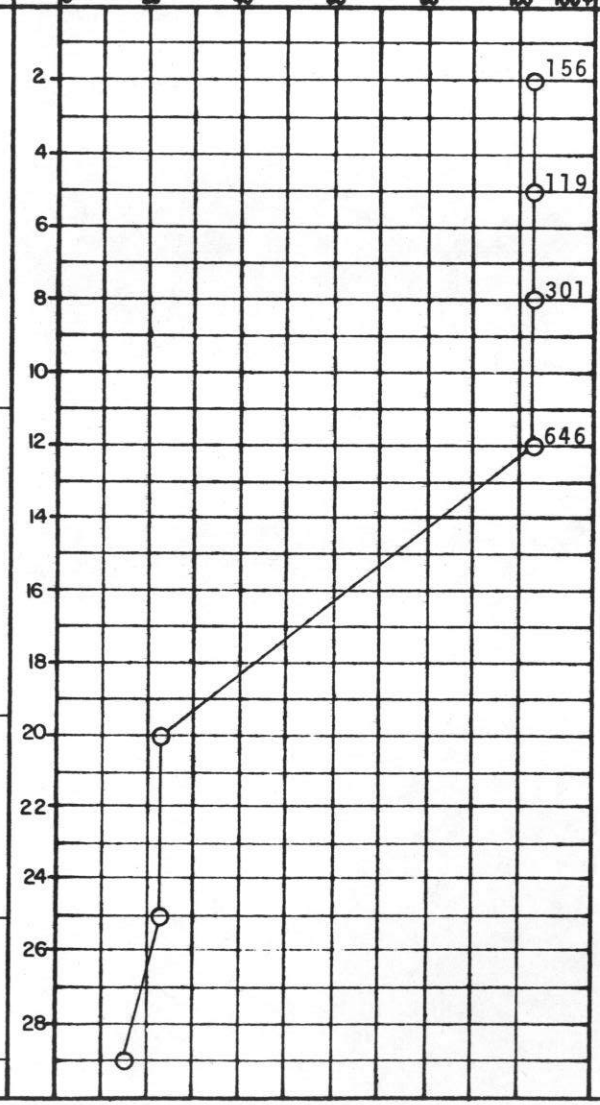
TEST HOLE 907

MILE 771

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0 – 11'					Pt	PEAT	F	High Ice Vc - Vr
11' – 19.5'						ICE		ICE
19.5' – 25'					SC	SAND -Gravelly Clayey	F	High Ice Vs
25' – 29'					CI	CLAY -Silty, sandy Pebbles Med plastic	F	Moderate Ice Vc - Vr

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	DEPTH (FEET)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				Free Water	2	
				Free Water	4	
				Free Water	8	
				Water	12	
				Free Water	20	
				Moist	26	
				Damp	28	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 14/3/74	AIRPHOTO NO. A 23334-236	CHAINAGE. 2465+00	OFFSET. ℄	TEST HOLE 908
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. SLOPE TO NORTH	VEGETATION. SPRUCE	ELEV.	MILE 770

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					Moist	
1.5'														
2						CLAY -Silty Sandy Pebbles Low-med plastic		Ice						
4														
6					CL								Wet	
8					CI			Vc - Vr					Wet	
10							F							
12						Shale fragments							Wet	
12'														
14						SHALE-SILTSTONE -Soft-hard		Low						Damp	
16								Ice						
18														
20								Vx					Damp	
22														
24														
26													Damp	
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. 15/3/74 | AIRPHOTO NO. A 23334-236 | CHAINAGE. 2457+00 | OFFSET. ℄

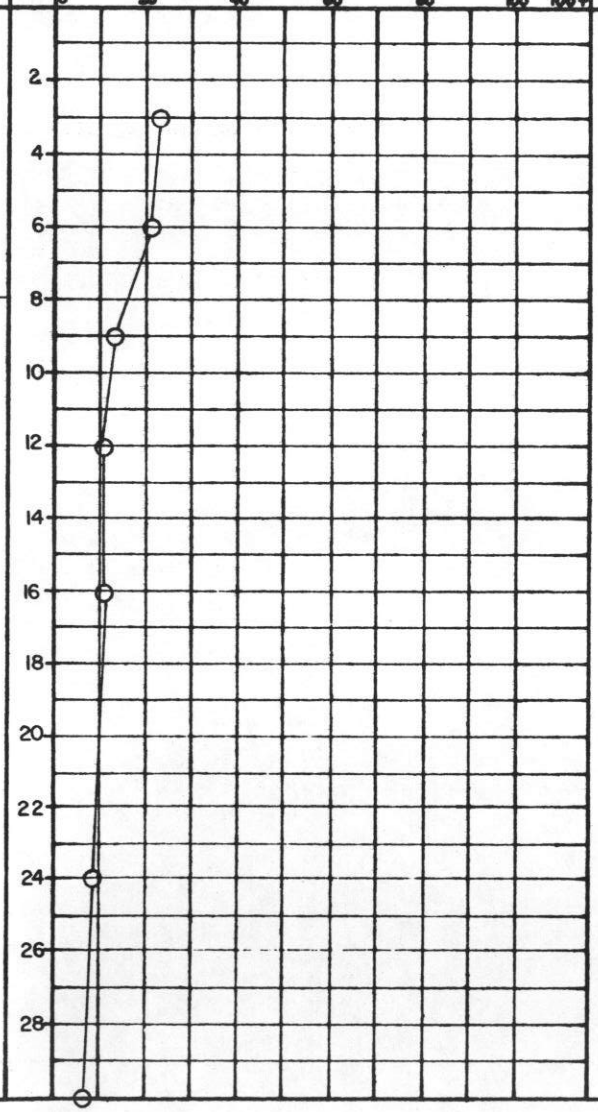
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. 7" | ELEV.

TEST HOLE 909

MILE 770

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate
						1.1'		
2					CL	CLAY		Ice
						-Silty		
4						Sandy		
						Pebbles		
6						Shale fragments		Vc - Vr
					CI	Low-med plastic		
8						8'		
						SHALE		Low
10						-Silty	F	
								To
12						Soft-hard		
14								Nil
16								
								Ice
18								
20								Vx
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
CLAY %	SILT %	SAND %	GRAVEL %	
				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. 15/3/74 | AIRPHOTO NO. A 23334-236 | CHAINAGE. 2444+00 | OFFSET. ℄

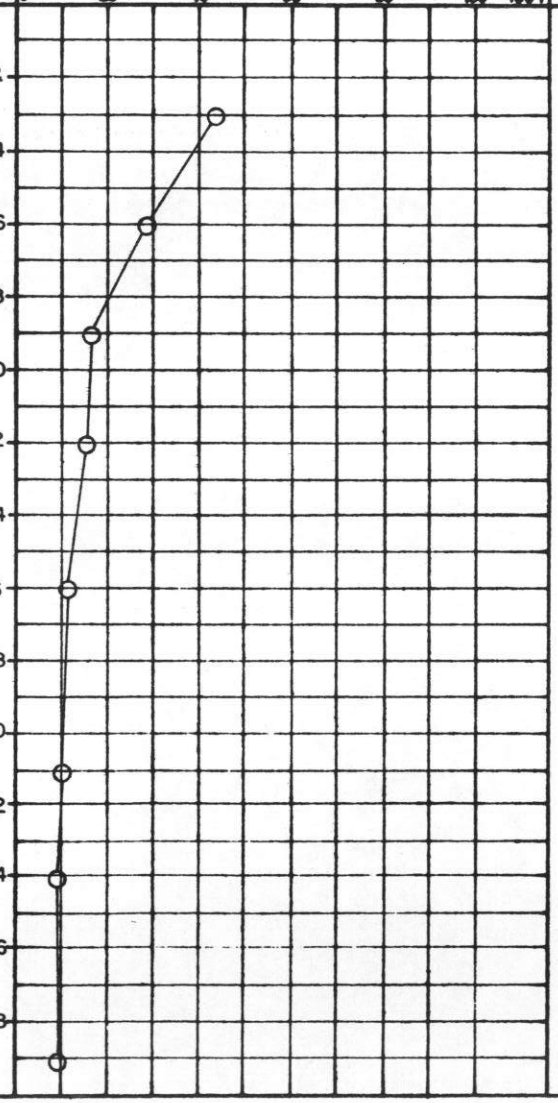
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. 5" | ELEV.

TEST HOLE 910

MILE 770

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
4'								
4					CL	CLAY -Silty Sandy Pebbles Low plastic Shale fragments	F	Vs Moderate Ice Vc - Vr
15'								
15						SHALE-SILTSTONE -Soft-hard		Low 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	
				Free Water	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

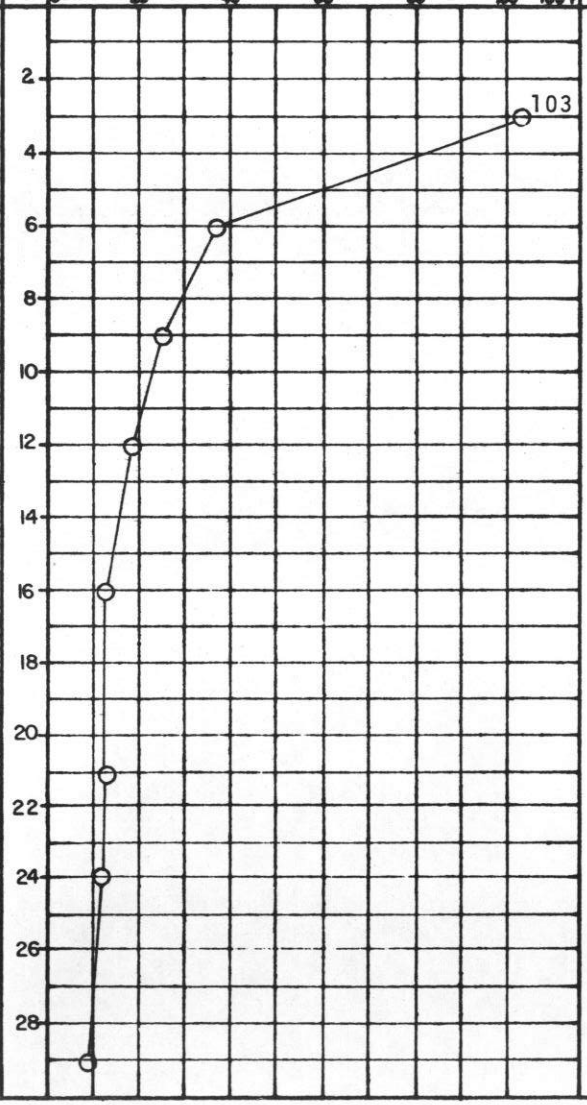
SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 15/3/74	AIRPHOTO NO. A 23334-234	CHAINAGE. 2433+00	OFFSET. ℄	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 8"	ELEV.	TEST HOLE 911
					MILE 770

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High
						1.4'		
2					CL	CLAY -Silty Sandy Pebbles Low plastic		Ice
4								
6								Vs
8								
10						Shale fragments	F	
12								
14								Low
						15'		
16						SHALE -Silty Soft-hard		Ice
18								
20								Vx
22								
24								
26								
28								
						30'		

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

REMARKS

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. A 23334-234 | CHAINAGE. 2422+00 | OFFSET. ℄

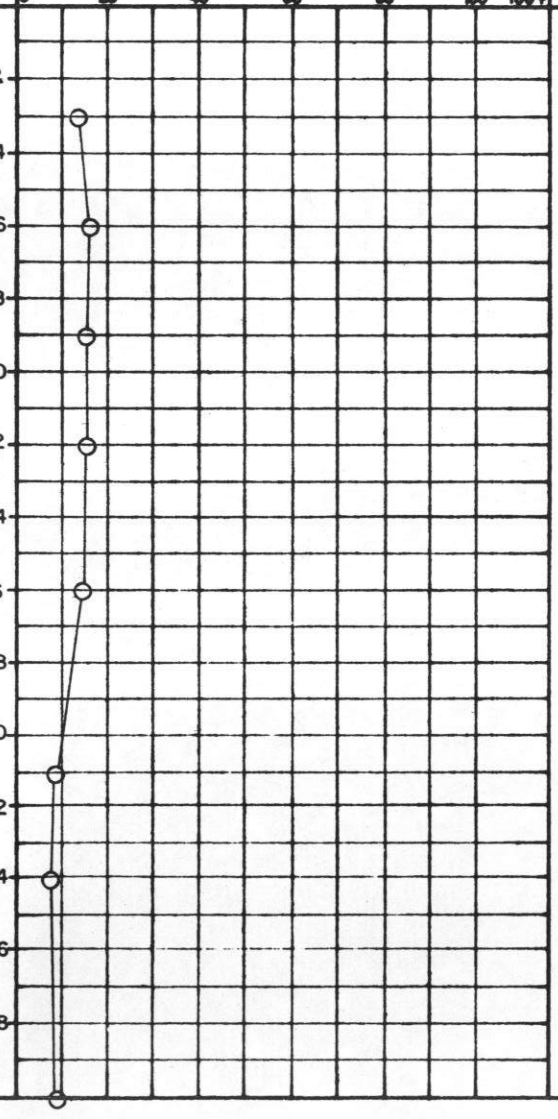
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE-TAMARACK 5" | ELEV.

TEST HOLE 912

MILE 770

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						SAND		
						-Silty		
4						Clayey		Low
						Pebbles		
6								Ice
					SC			
8								
10							F	Vx
12								
						13'		
14						CLAY		
						-Silty		
16						Sandy		
					CI	Pebbles		
						Shale fragments		
18						Med plastic		
						18'		
20						SHALE-SILTSTONE		
						-Soft-hard		
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	
				Moist	
				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. 15/3/74 | AIRPHOTO NO. A 23334-234 | CHAINAGE. 2409+00 | OFFSET. ℄

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

TEST HOLE 913

MILE 769

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					Sat.	
2–8					CL	CLAY -Silty Sandy Pebbles Low-med plastic	F	Vc - Vr					Wet Moist	
10–28					CI			Low Ice Vx					Damp Damp	
						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:

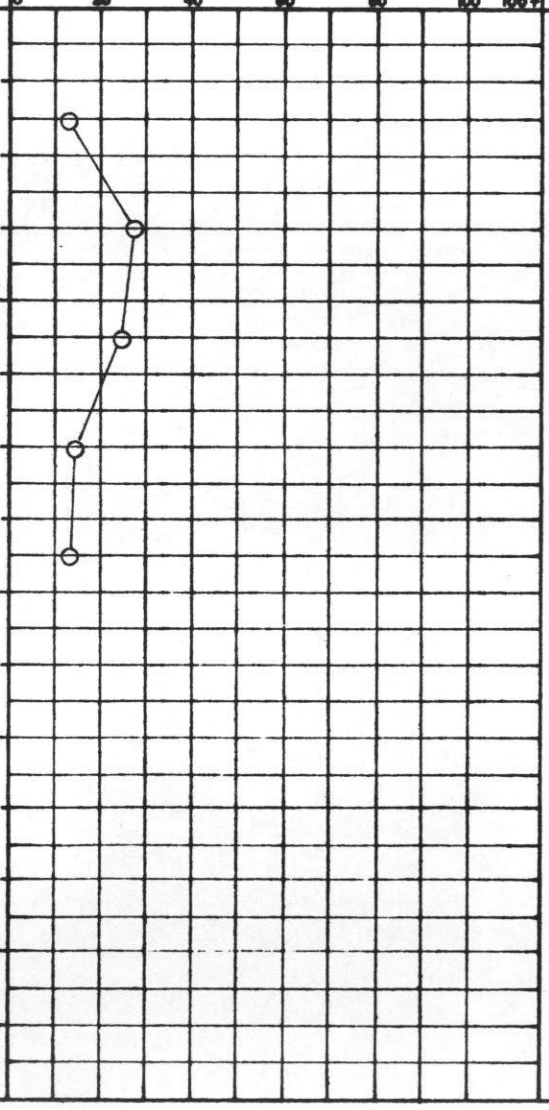
FIELD ENG. N. BURGRESS	DATE DRILLED. 15/3/74	AIRPHOTO NO. A 23334-234	CHAINAGE. 2398+00	OFFSET. ℄	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 914

MILE 769

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		Low Ice Vx
2						CLAY -Silty Sandy Pebbles Low plastic		
4								High Ice Vs
6							F	
8								
10					CL			Low Ice
12								
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



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0						
2					Damp	
4						
6					Free Water	
8						
10					Sat.	
12					Damp	
14						
16					Damp	
18						
20						
22						
24						
26						
28						

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. 15/3/74	AIRPHOTO NO. A 23334-234	CHAINAGE. 2384+00	OFFSET. ℄	TEST HOLE 915
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 769

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'		High						
2						CLAY		Ice					Moist	Hole in Bag
4						-Organics to 4' Silty Sandy Pebbles								
6						Low-med plastic		Vs					Free Water	
8					CL									
10					CI			Low					Wet	
12							F	Ice					Damp	
14														
16													Damp	
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
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. 15/3/74 | AIRPHOTO NO. A 23334-234 | CHAINAGE. 2374+00 | OFFSET. ℄

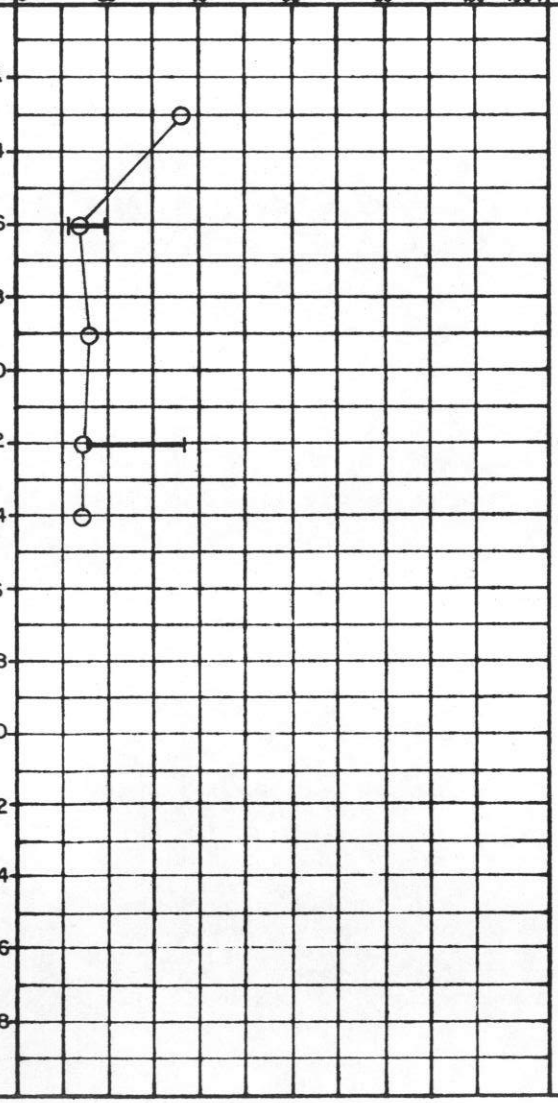
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 916

MILE 769

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'					OL	ORGANIC SANDY CLAY		Ice
4'					SC	SAND -Clayey Silty Pebbles		Vc - Vr
7'					CI	CLAY -Silty Sandy Pebbles Med plastic	F	Low Ice
						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
-66-		31	3	Moist	Hole in Bag
-39-		54	7	Wet	Hole in Bag
-54-		41	5	Wet	
-76-		20	4	Damp	
-78-		21	1	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. 15/3/74	AIRPHOTO NO. A 23334-234	CHAINAGE. 2367+00	OFFSET. ℄	TEST HOLE 917
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 769

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+

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'		Low Ice						
2						CLAY -Silty Sandy Gravelly Med plastic		Vx	-44-		36	20	Moist	
6									-65-		26	9	Moist	
8								Moderate Ice						
10					CI	Pebbles			-70-		20	10	Sat.	
12							F	Vc - Vr	-70-		22	8	Wet	
14									-70-		24	6	Wet	
16														
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. 16/3/74	AIRPHOTO NO. A 23334-234	CHAINAGE. 2367+25	OFFSET. CREEK	TEST HOLE 917-A
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION. SPRUCE	ELEV.	MILE 769

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'		High Ice Vs						
2						CLAY -Silty Sandy Pebbles Med plastic			-80-		19	1	Sat.	
4									-73-		23	4	Wet	
6								Low						
8									-73-		21	6	Moist	
10					CI		F	Ice	-73-		19	8	Damp	
12														
14									-70-		20	10	Damp	
16								Vx						
18														
20									-74-		19	7	Damp	
22														
24									-74-		21	5	Damp	
26														
28						29'			-71-		22	7	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 - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. A 23334-234 | CHAINAGE. 2366+45 | OFFSET. CREEK

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

TEST HOLE 917-B

MILE 769

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		Moderate
4						-Gravelly Organic to 4'		
6						Silty Sandy Pebbles		And
8					CL	Low-med plastic	F	Low
10					CI			Ice
12								Vc - Vr
14								
16								Vx
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 80 100 120 140 160+

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
-36-		44	20	Damp	
-58-		34	8	Wet	
-35-		39	26	Sat.	
-62-		33	5	Wet	
-68-		26	6	Moist	
-66-		21	13	Damp	
-74-		20	6	Damp	
-76-		17	7	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. 15/3/74	AIRPHOTO NO. A 23334-232	CHAINAGE. 2355+00	OFFSET. ℄	TEST HOLE 918
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 768

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'		High Ice						
2						CLAY -Silty Sandy Pebbles Low plastic		Vs					Free Water	
4														
6													Sat.	
8								Moderate						
10					CL		F	To					Wet	
12								Low					Moist	
14								Ice					Damp	
16								Vc - Vr						
18														
20								Vx						
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 80 140 100 160+

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. 15/3/74 | AIRPHOTO NO. A 23334-232 | CHAINAGE. 2345+00 | OFFSET. ℄

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

TEST HOLE 919

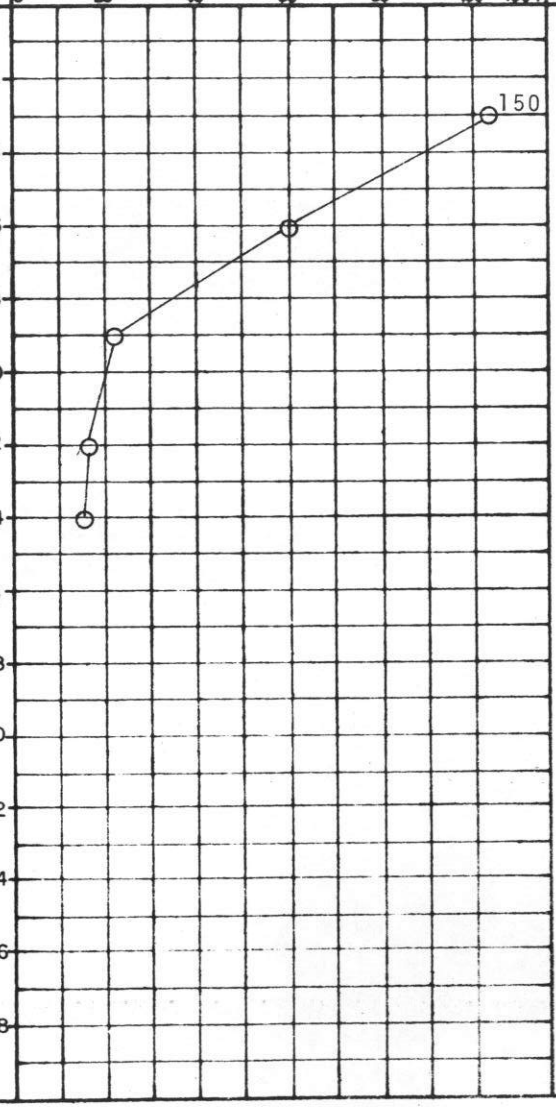
MILE 768

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 -Organics to 4' Silty Sandy Low-med plastic		
6								Vs
8					CL			Moderate Ice
10						Pebbles	F	
12								Vc - Vr
14					CI			
16								Low Ice
18								
20								Vx
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+



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

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. 15/3/74 | AIRPHOTO NO. A 23334-232 | CHAINAGE. 2335+00 | OFFSET. ℄

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

TEST HOLE 920

MILE 768

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 .5'			
2						CLAY			
						-Silty			
						Sandy		Low	Damp
4						Pebbles			
						Low-med plastic			
6					CL				Wet
								Ice	
8									
					CI				Moist
10									
							F		
12								Vx	Damp
						Shale fragments			
14									Damp
16									
18									
20									
22									
24									
26									
						27'			
28						SHALE-SILTSTONE			
						-Soft-hard			Damp
						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

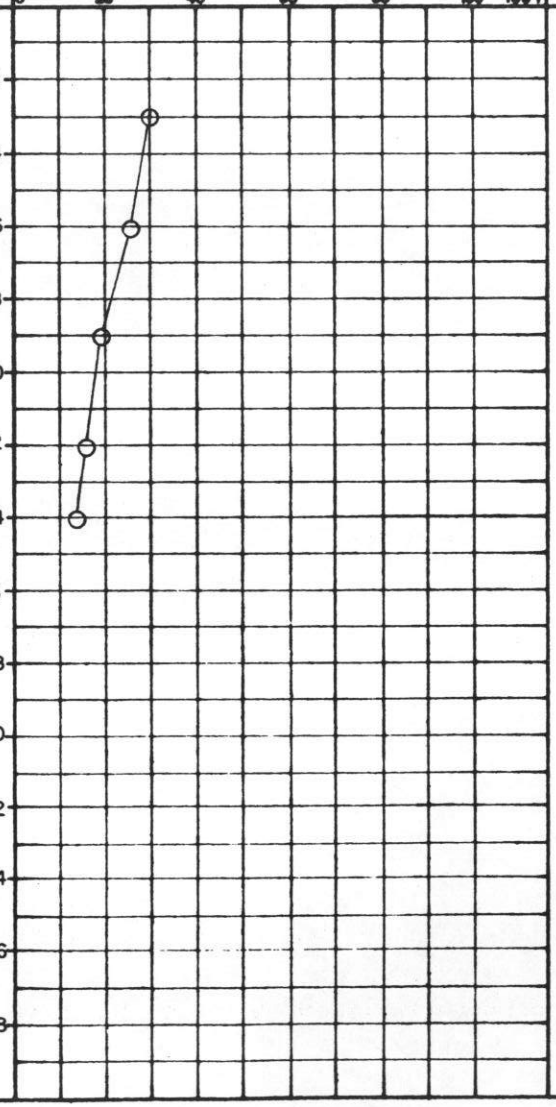
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 15/3/74	AIRPHOTO NO. A 23334-232	CHAINAGE. 2321+00	OFFSET. ℄	TEST HOLE 921
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 768

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						CLAY -Silty Sandy Pebbles Low plastic		Vs
6					CL			
8								Low
10						Shale fragments		Ice
11'								
12						SHALE-SILTSTONE -Soft-hard	F	
14								Vx
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					Sat.	
6					Sat.	
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. 15/3/74 | AIRPHOTO NO. A 23334-232 | CHAINAGE. 2312+00 | OFFSET. ℄

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

TEST HOLE 922

MILE 768

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'		Moderate Ice						
2						CLAY								
4						-Silty Sandy Pebbles							Sat.	
6					CL	Low plastic		Vc - Vr					Sat.	
8								Low Ice						
10						Low-med plastic	F						Moist	
12													Damp	
14								Vx					Damp	
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. 15/3/74 | AIRPHOTO NO. A 23334-232 | CHAINAGE. 2300+00 | OFFSET. ℄

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

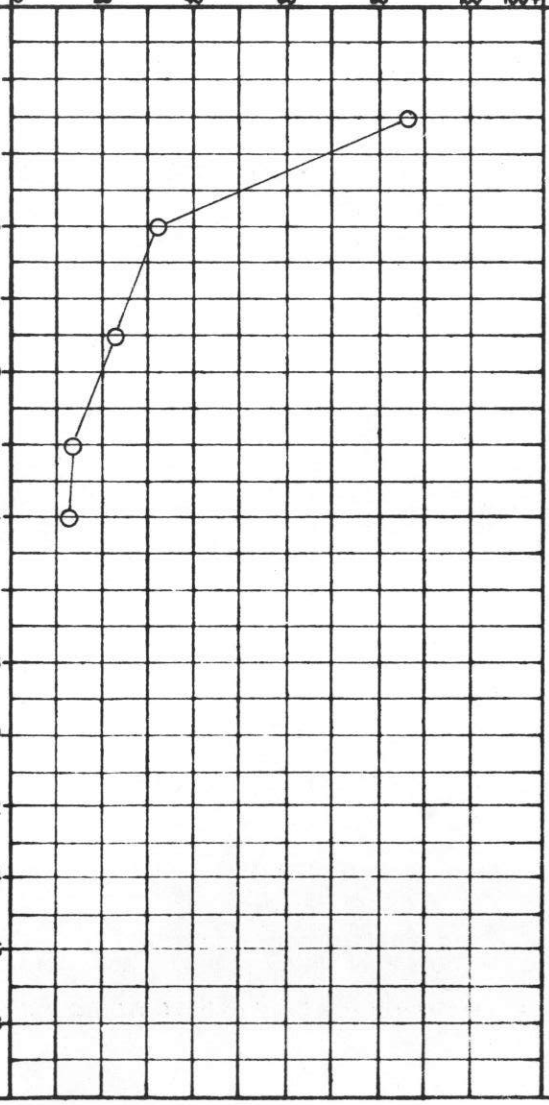
TEST HOLE 923

MILE 767

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'	F	High Ice
2						CLAY -Silty Sandy		Vs
6					CL	Pebbles		Moderate Ice
8						Low plastic		Vc - Vr
12								Low Ice
18								Vx
30								

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

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. A 23334-232 | CHAINAGE. 2291+00 | OFFSET. ℄

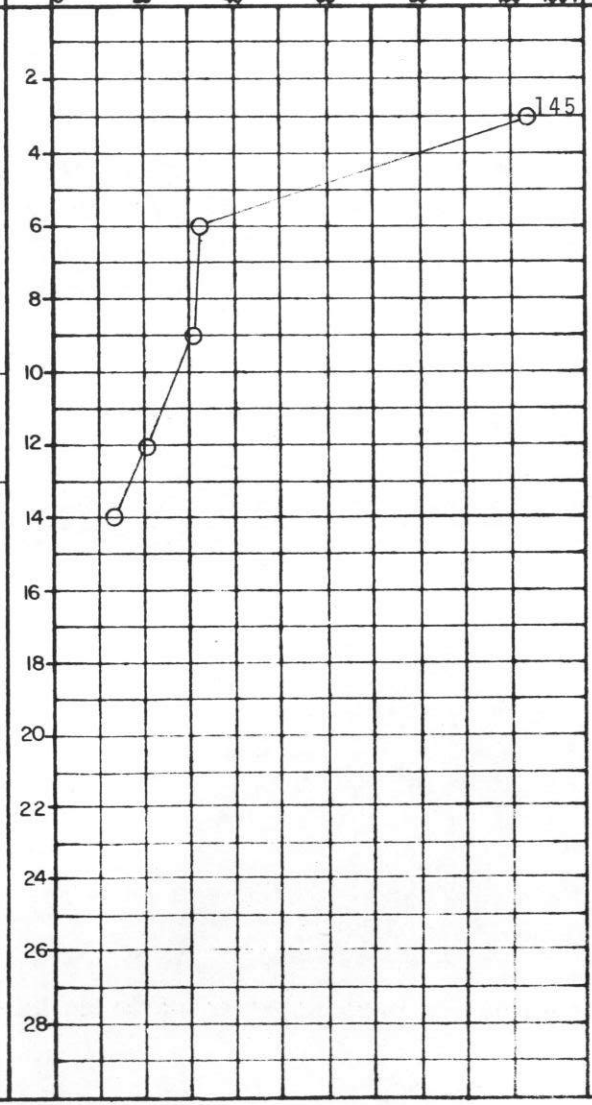
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 924

MILE 767

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		High Ice					Free Water	
4						4'								
4						CLAY -Sandy Silty Pebbles		Vs					Free Water	
10					CL	Low plastic	F	Moderate Ice Vc - Vr					Free Water	
12													Wet	
14								Low Ice					Moist	
20								Vx						
30						30'								

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

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. A 23334-230 | CHAINAGE. 2278+00 | OFFSET. ℄

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

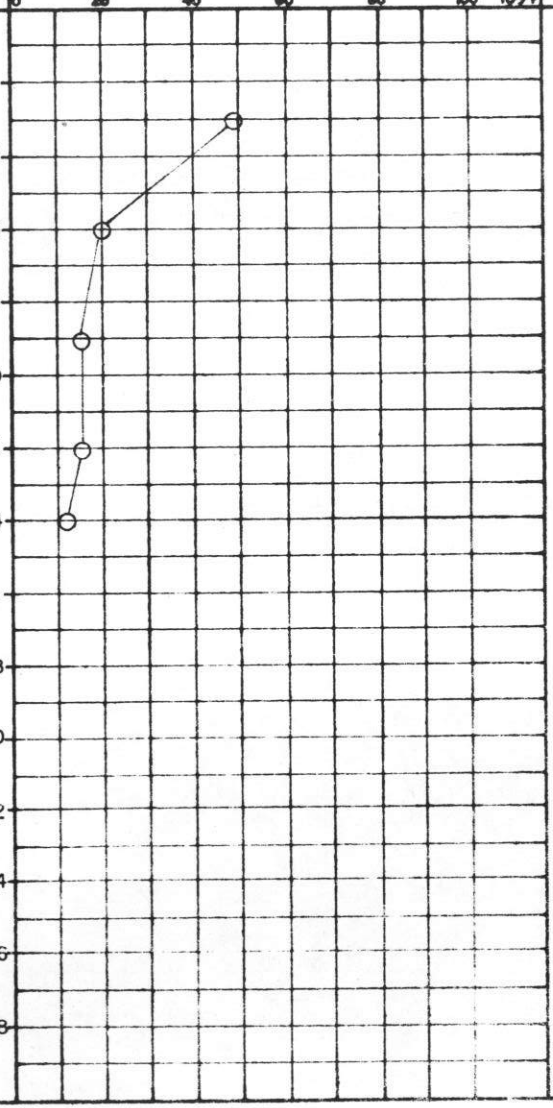
TEST HOLE 925

MILE 767

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 Ice
4						CLAY -Silty Sandy Pebbles		Vs
6						Rock chips		Low Ice
8							F	
10						Low plastic		
12					CL			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



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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

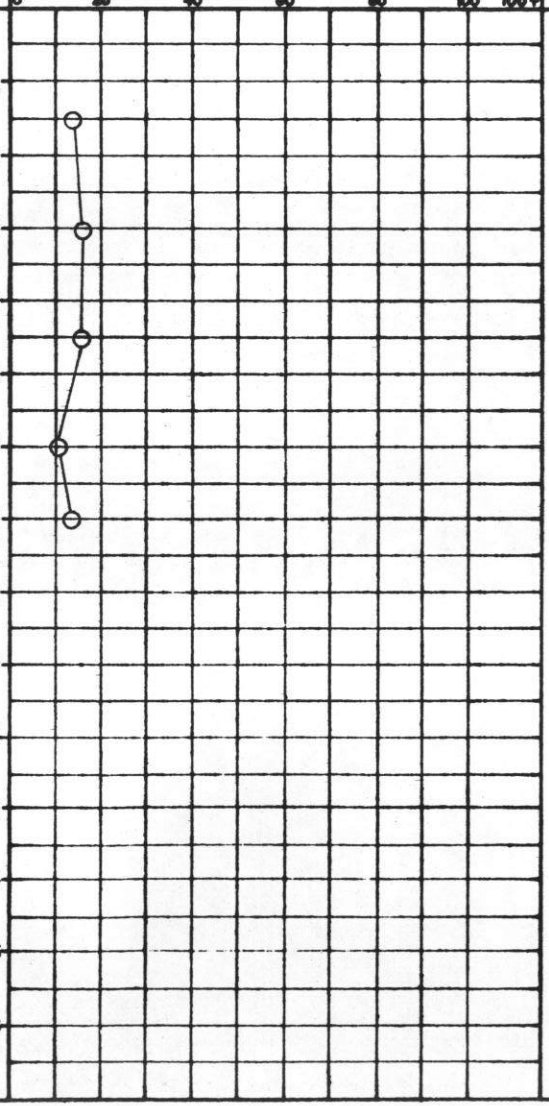
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 15/3/74	AIRPHOTO NO. A 23334-230	CHAINAGE. 2264+00	OFFSET. ℄	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 926
					MILE 767

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'						CLAY -Silty Sandy Pebbles		Low					Damp	
6						Low-med plastic		Ice					Moist	
10													Moist	
12					CL		F	Vx					Damp	
14					CI								Damp	
30'														

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

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 15/3/74 | AIRPHOTO NO. A 23334-230 | CHAINAGE. 2254+00 | OFFSET. ℄

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

TEST HOLE 927

MILE 766

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						2'		
4					CL	CLAY -Silty Sandy Pebbles		Ice
6								Vc - Vr
8						Low-med plastic		
10							F	
12								Low
14								Ice
16					CI			
18								Vx
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

0 20 40 60 80 100 120 140 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Sat.
				Sat.
				Wet
				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. 15/3/74	AIRPHOTO NO. A 23334-230	CHAINAGE. 2241+00	OFFSET. ℄	TEST HOLE 928
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 766

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate
						1.5'		
2						CLAY		Ice
4						-Silty		
6						Sandy		Vc - Vr
8						Pebbles		
10						Low plastic		
12					CL		F	Low
14								Ice
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

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Sat.	
6					Wet	
8					Wet	
12					Damp	
14					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. 15/3/74 | AIRPHOTO NO. A 23334-230 | CHAINAGE. 2233+00 | OFFSET. ℄

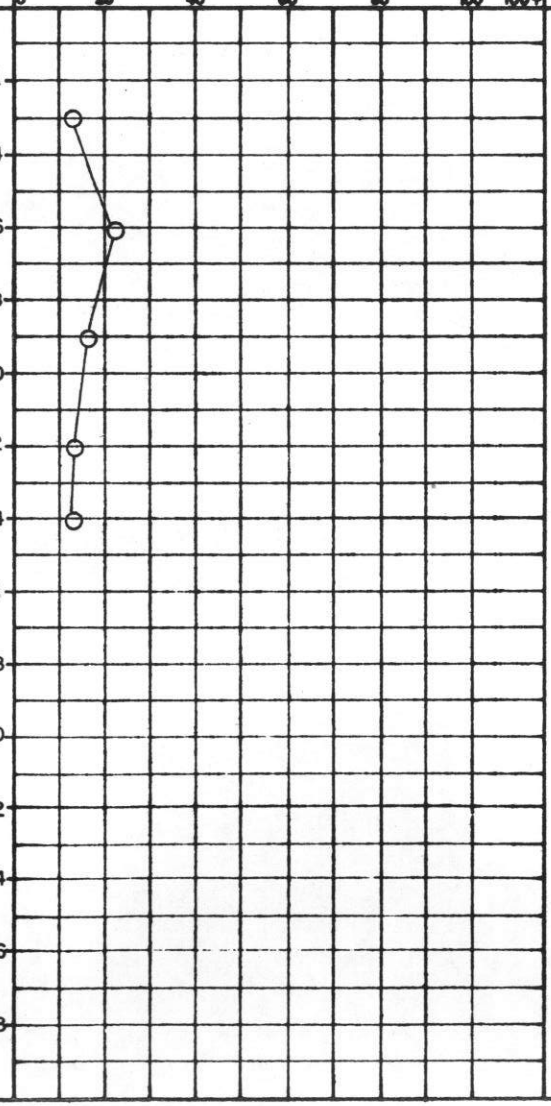
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 929

MILE 766

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 Ice
2						CLAY -Sandy Silty Pebbles Low plastic		
4								
6								Vc - Vr
8								
10					CL		F	Low Ice
12								
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



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Sat.	
				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. 16/3/74 | AIRPHOTO NO. A 23334-230 | CHAINAGE. 2222+00 | OFFSET. ℄

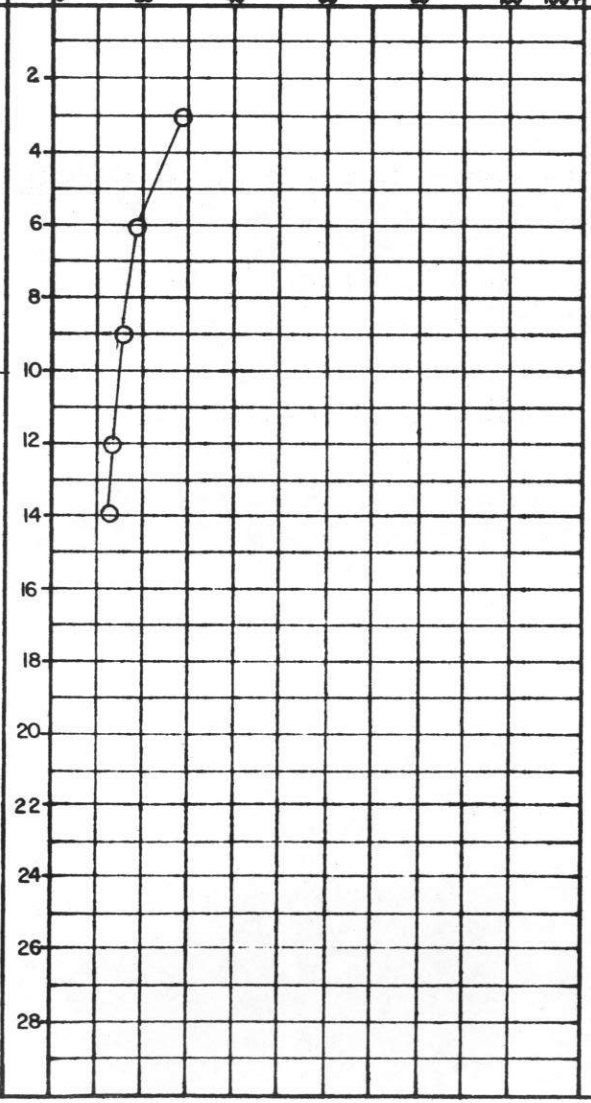
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 930

MILE 766

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'								To
					CL	CLAY -Sandy Silty Low plastic		High
								Ice
						Rock chips		Vc - Vr
8'								
					SC	SAND -Silty Clayey		Vs
11'							F	Low
						CLAY -Sandy Silty Pebbles		Ice
					CL	Low-med. plastic		
					CI			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
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Free Water
				Sat.
				Moist
				Damp

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

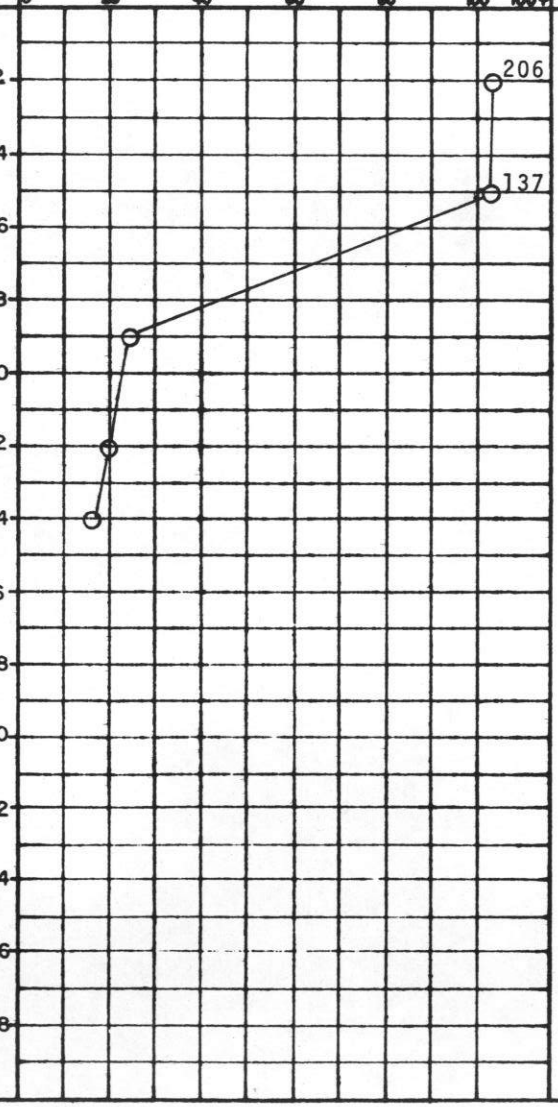
FIELD ENG. N. BURGRESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. A 23334-230 | CHAINAGE. 2210+00 | OFFSET. ℄

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

TEST HOLE 931

MILE 766

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						4'		
6					SP ML OL	SAND-ORGANIC SILT-ORGANIC		Vs
8						7'		
10					CL	CLAY -Organic to 10' Sandy Silty Pebbles Low	F	Moderate Ice Vc - Vr
12								
14								
16					CL			Low Ice Vx
18								
20								
22								
24								
26								
28						30'		



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Free Water	
				Wet	
				Wet	
				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. 16/3/74	AIRPHOTO NO. A 23334-228	CHAINAGE. 2199+00	OFFSET. ℄	TEST HOLE 932
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 765

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'		High Ice					Free Water	
4						CLAY -Organics to 4' Silty Sandy-rock chips								
6								Vs					Sat.	
8						Pebbles		Low						
10						Low plastic	F						Moist	
12					CL			Ice					Moist	
14													Moist	
16								Vx						
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. 16/3/74 | AIRPHOTO NO. A 23334-228 | CHAINAGE. 2188+00 | OFFSET. ℄

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

TEST HOLE 933

MILE 765

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 .5'		High		
2						CLAY		Ice	Damp	Hole in Bag
4						-Sandy				
6						Silty		Vs	Free Water	
8					CL	Pebbles		Low	Damp	Hole in Bag
10						Low plastic		Ice		
12							F		Damp	Hole in Bag
14								Vx	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

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. 16/3/74 | AIRPHOTO NO. A 23334-228 | CHAINAGE. 2179+00 | OFFSET. ℄

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

TEST HOLE 934

MILE 765

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		Moderate Ice
2						CLAY -Sandy Silty Pebbles Low plastic		
4								
6					CL			Vc - Vr
8								Low
10								
12								Ice
14							F	Vx
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 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	Hole in Bag
4						
6					Sat.	
8					Moist	
10						
12					Moist	
14					Moist	
16						
18						
20						
22						
24						
26						
28						

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

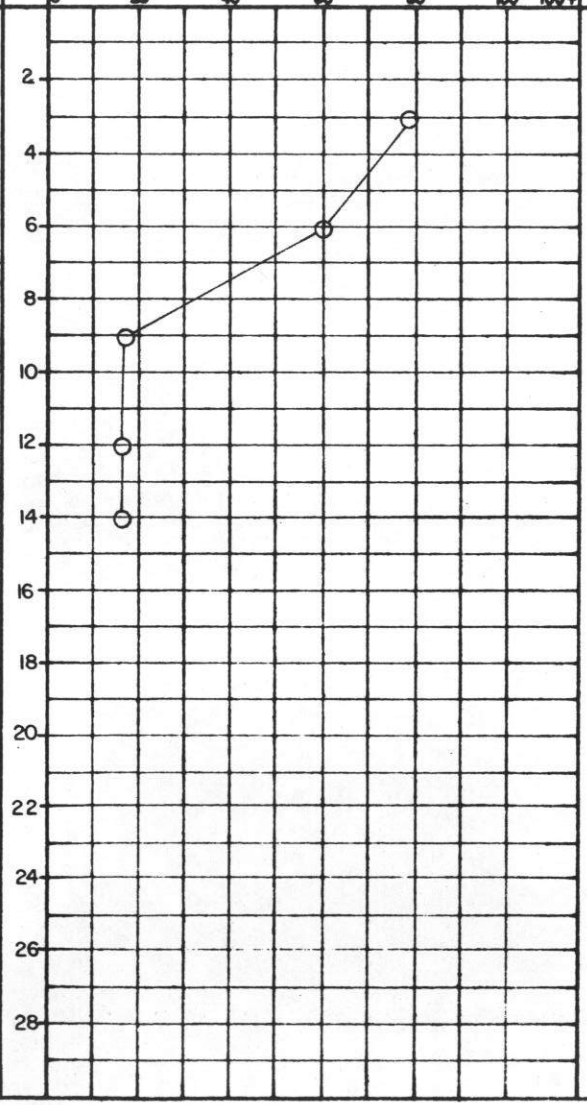
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 16/3/74	AIRPHOTO NO. A 23334-228	CHAINAGE. 2164+00	OFFSET. ℄	TEST HOLE 935
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 765

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 -Organic to 7' Silty Sandy		Vs
6								
8						Low plastic		Low
10								
12					CL	Pebbles	F	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



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				Wet	
				Moist	Hole in Bag
				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. 16/3/74 | AIRPHOTO NO. A 23334-228 | CHAINAGE. 2154+00 | OFFSET. ℄

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

TEST HOLE 936

MILE 765

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		Moderate Ice
2						CLAY -Silty Sandy Pebbles Low-med. plastic		
4								
6					CL			Vc - Vr
8								
10					CI			
12								Low Ice
14							F	
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 80 100 120 140 160 180+

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

RELATIVE THAWED MOISTURE CONTENT	REMARKS
Sat.	
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. 16/3/74 | AIRPHOTO NO. A 23334-228 | CHAINAGE. 2142+00 | OFFSET. ℄

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

TEST HOLE 937

MILE 764

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'		Moderate Ice						
2						CLAY -Silty Sandy Pebbles							Wet	
4								Vc - Vr						
6						Low-med. plastic							Wet	
8														
10					CL			Low					Damp	
12					CI		F						Damp	
14								Ice					Damp	
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
40 60 80 100 120 140 100+
0 20 40 60 80 100

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. 16/3/74	AIRPHOTO NO. A 23334-228	CHAINAGE. 2134+00	OFFSET. ℄	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 938
					MILE 764

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 Ice					Wet	
4						CLAY -Organics to 4' Silty Sandy Pebbles								
6								Vc - Vr					Moist	
8														
10						Low-med. plastic	F						Wet	
12					CL								Moist	
14					CI			Low Ice					Damp	
16														
18														
20								Vx						
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. 16/3/74 | AIRPHOTO NO. A 23334-228 | CHAINAGE. 2124+00 | OFFSET. ℄

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

TEST HOLE 939

MILE 764

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						CLAY		&
4						-Silty		High
6						Sandy		Ice
8					CL	Pebbles Low plastic		Vc - Vr
10								Vs
12						Med. plastic	F	Low
14								Ice
16					CI			
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

DEPTH (FEET): 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BUEGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 -226	CHAINAGE. 2112 + 00	OFFSET.	TEST HOLE 940
TECH.	RIG. 2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 764

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 - SILTY		LOW						
						SANDY			-66	-	33	1	DAMP	
4						PEBBLES		&						
6						LOW PLASTIC		MODERATE	-32	-	62	6	SAT.	
8								ICE						
					Cl				-81	-	19	0	WET	
10							F	Vx						
12									-72	-	28	0	DAMP	
14								Vc-Vr	-67	-	31	2	DAMP	
16														
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BEUGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 - 226	CHAINAGE. 2104 + 00	OFFSET.	TEST HOLE 941
TECH. JOHNSON	RIG. 2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 764

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		HIGH						
2'														
2					OL	ORGANIC SILT		ICE Vs						
4									-78	-	22	0	MOIST	
6									-71	-	25	4	WET	
7'														
8						CLAY - SILTY								
						- SANDY			-69	-	29	2	WET	
10								LOW						
						- PEBBLES								
12								ICE	-68	-	30	2	MOIST	
						LOW PLASTIC								
14					Cl				-61	-	37	2	DAMP	
16								Vx						
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

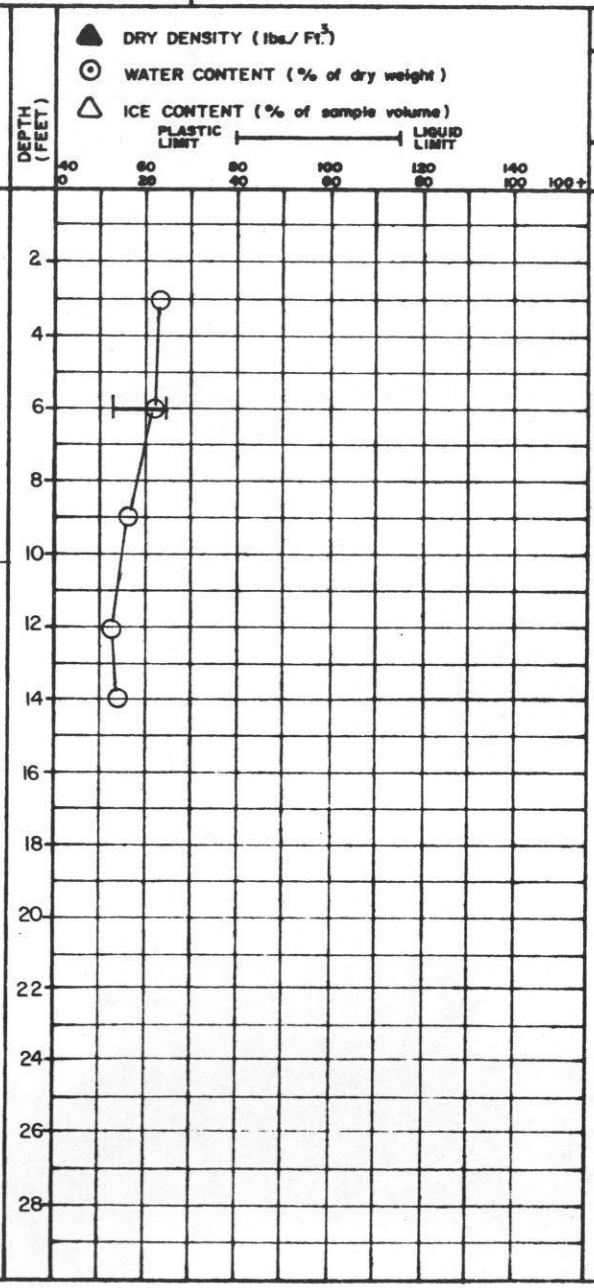
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 - 226	CHAINAGE. 2093 + 00	OFFSET.	TEST HOLE 942
TECH. JOHNSON	RIG. 2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 763

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'		MODERATE ICE
2						CLAY - SILTY		
4						- SANDY		
6						- PEBBLES		Vc - VR
8						LOW PLASTIC		
10					Cl			
12							F	LOW ICE
14								
16								Vx
18								
20								
22								
24								
26								
28								



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2	69	30		1	WET	
6	63	34		3	WET	
9	62	36		2	MOIST	
12	63	33		4	DAMP	
14	63	34		3	DAMP	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 - 226	CHAINAGE. 2085 + 00	OFFSET.	TEST HOLE 943
TECH. JOHNSON	RIG. 2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 763

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+

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						
2						CLAY - SILTY		Vc - Vr	-65	-	33	2	WET	
4						- SANDY								
6						- PEBBLES		LOW ICE	-55	-	39	6	MOIST	
8						LOW PLASTIC			-63	-	33	4	DAMP	
10					Cl		F		-63	-	35	2	DAMP	
12								Vx						
14									-62	-	36	2	DAMP	
16														
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 - 226	CHAINAGE. 2076 + 00	OFFSET.	TEST HOLE 944
TECH. JOHNSON	RIG. 2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 763

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 80 100 120

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						
2						CLAY - SILTY								
4						- SANDY		Vc - Vr	-66	- 32	2		WET	
6						- PEBBLES			-67	- 33	0		WET	
8						LOW PLASTIC								
10					Cl		F	LOW	-66	- 38	2		MOIST	
12									-65	- 33	2		DAMP	
14								ICE	-59	- 39	2		DAMP	
16														
18								Vx						
20														
22														
24														
26														
28														

BOTTOM OF HOLE 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 - 226	CHAINAGE. 2072 + 00	OFFSET.	
TECH. JOHNSON	RIG. 2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 945
					MILE 763

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)	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'		LOW ICE						
2						CLAY - SILTY		Vx	-72	-	27	1	DAMP	
4						- SANDY								
6						- PEBBLES		HIGH	-59	-	38	3	FREE WATER	
8						LOW PLASTIC		ICE Vs						
10					Cl			Low	-60	-	40	0	MOIST	
12							F	ICE	-55	-	41	4	DAMP	
14								Vx	-47	-	48	5	DAMP	
16														
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334-226	CHAINAGE. 2066 + 00	OFFSET.	TEST HOLE 946
TECH. JOHNSON	RIG. 2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 763

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 2'		MOSTLY ICE Vx
2						CLAY - SANDY		
4						- SILTY		
6						- PEBBLES		
8					Ci	LOW - MED. PLASTIC	F	HIGH ICE Vs
10								
12					Cl			LOW ICE Vx
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+

213

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
-95	-	5	0	FREE WATER	
-82	-	18	0	SAT.	
-59	-	40	1	SAT.	
-30	-	59	11	DAMP	
-50	-	45	5	DAMP	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

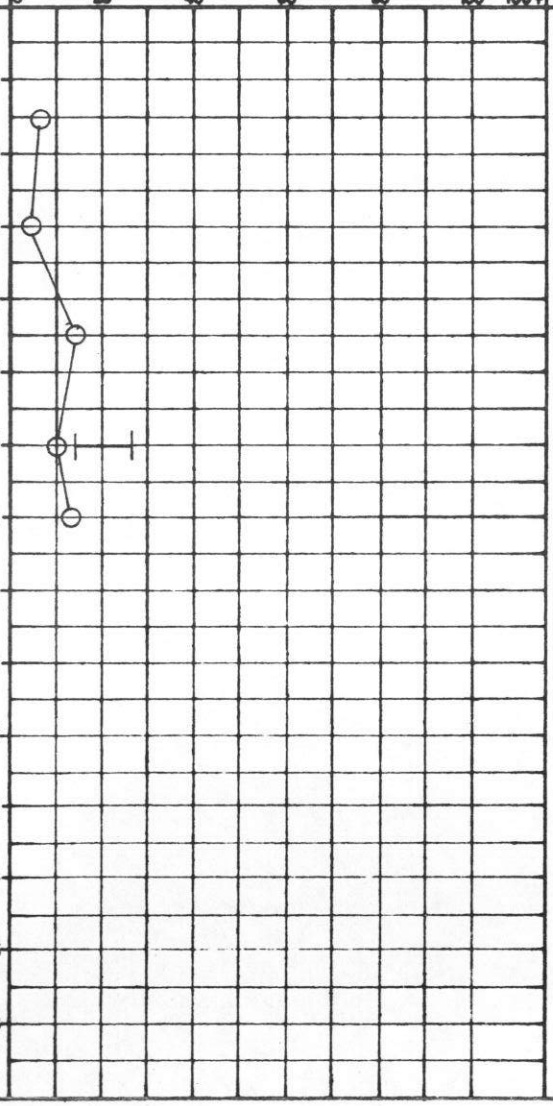
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 - 226	CHAINAGE. 2063 + 20	OFFSET.	TEST HOLE 947
TECH. JOHNSON	RIG. 2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 763

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					Gc	GRAVEL - SAND MIXTURE CLAYEY		LOW	- 7	-	52	41	MOIST	
6						CLAY - SANDY			-21	-	42	37	MOIST	
8						- SILTY	F	ICE	-53	-	42	5	DAMP	
10					Cl	- PEBBLES LOW PLASTIC 15'								
12								Vx	-54	-	39	7	DAMP	
14						CLAY - GRAVEL MIXTURE			-50	-	44	6	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

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 - 226	CHAINAGE. 2059 + 50	OFFSET.	TEST HOLE 949
TECH. BAINS	RIG. 1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 763

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					Ci	CLAY - SILTY SANDY MED. PLASTIC 4'		
6					Sc	SAND - CLAYEY - GRAVELLY		LOW
8						- PEBBLES		ICE
10					Ml	SILT - CLAYEY - SANDY	F	
12						- PEBBLES		Vx
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 %		
-70	-	30	0	WET	HOLE IN BAG
-17	-	58	25	DAMP	
-38	-	52	10	DAMP	
-68	-	30	2	DAMP	
-70	-	27	3	DAMP	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

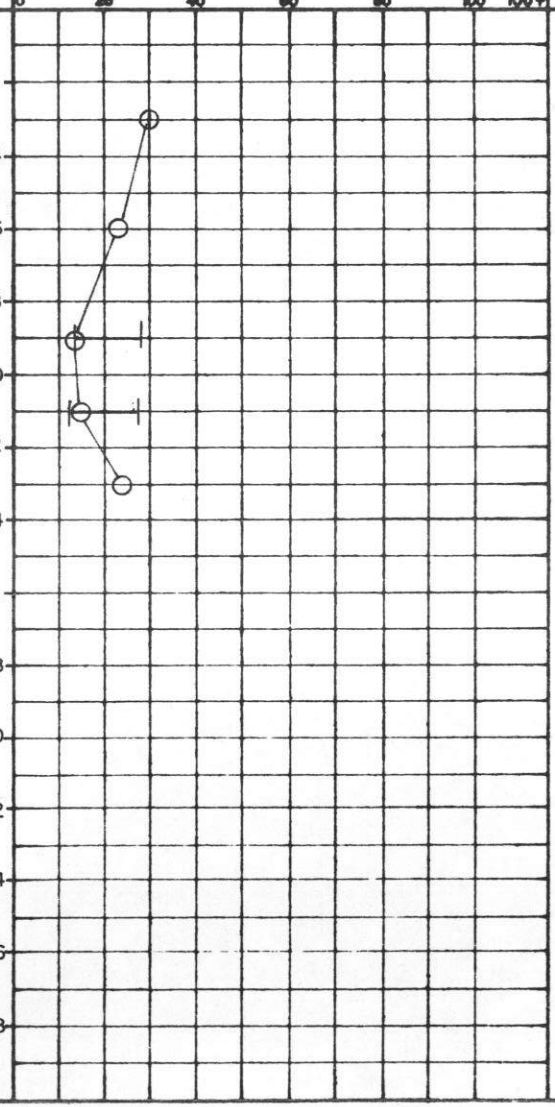
SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 - 226	CHAINAGE. 2056 + 00	OFFSET.	
TECH. BAINS	RIG. 1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 950

MILE 763

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'		MODERATE ICE
2						CLAY - SILTY		
4						- SANDY		Vc - Vr
6						- PEBBLES		
8						LOW PLASTIC		
10					Cl		F	LOW ICE
12								
14								Vx
16								
18								
20								
22								
24								
26								
28								



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2	-68	- 32	0		SAT.	
6	-60	- 37	3		WET	
8	-61	- 36	3		DAMP	
10	-64	- 35	1		DAMP	
12	-65	- 33	2		DAMP	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 - 226	CHAINAGE. 2051 + 00	OFFSET.
TECH. BAINS	RIG. 1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 951

MILE 763

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 - SANDY								
						- SILTY		LOW	-67	-	31	2	DAMP	
4						- PEBBLES								
6						LOW PLASTIC		ICE	-67	-	33	0	MOIST	
8					Cl				-63	-	32	5	DAMP	
10									-64	-	32	4	DAMP	
12							F	Vx	-75	-	24	1	DAMP	
14														
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: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23334 - 226	CHAINAGE. 2044 + 50	OFFSET.	TEST HOLE 952
TECH. BAINE	RIG. 1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 762

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
					Pt	PEAT 1'								
2						CLAY - SANDY								
						- SILTY								
4						- PEBBLES		LOW						
6						LOW PLASTIC			-69	- 30		1	MOIST	
									-65	- 32		3	MOIST	
8								ICE						
									-57	- 41		2	DAMP	
10					Cl		F							
									-41	- 54		5	DAMP	
12								Vx						
									-66	- 33		1	DAMP	
14														
16														
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 27'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 17/3/74 | AIRPHOTO NO. A 23334-226 | CHAINAGE. 2034+00 | OFFSET. ℄

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

TEST HOLE 953

MILE 762

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 4' Silty Sandy Pebbles		Moderate Ice Vc - Vr
4								
6								
8						Low-med. plastic		Low Ice
10					CL		F	
12					CI			
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
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.	
-62-		36	2	Wet	
-75-		24	1	Damp	
-66-		34	0	Damp	
-66-		33	1	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. 17/3/74 | AIRPHOTO NO. A 23334-224 | CHAINAGE. 2025+00 | OFFSET. ℄

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

TEST HOLE 954

MILE 762

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 Ice
2						CLAY		Vc - Vr
4						-Silty		
6						Sandy		Low Ice
8						Pebbles		
10					CL	Low-med. plastic		
12					CI			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

DEPTH (FEET)	0	20	40	60	80	100	120	140	160	180	200+
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	-67-		33	0		
6					Damp	
8						
10					Damp	
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. 17/3/74	AIRPHOTO NO. A 23334-224	CHAINAGE. 2012+00	OFFSET. ℄
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 955

MILE 762

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'				
2						CLAY			Damp	
4						-Silty		Low		
6						Sandy			Damp	
8						Pebbles		Ice		
10					CI	Med. plastic			Damp	
12						Shale fragments	F	Vx	Damp	
14									Damp	
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+

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. 17/3/74 | AIRPHOTO NO. A 23334-224 | CHAINAGE. 2003+00 | OFFSET. ℄

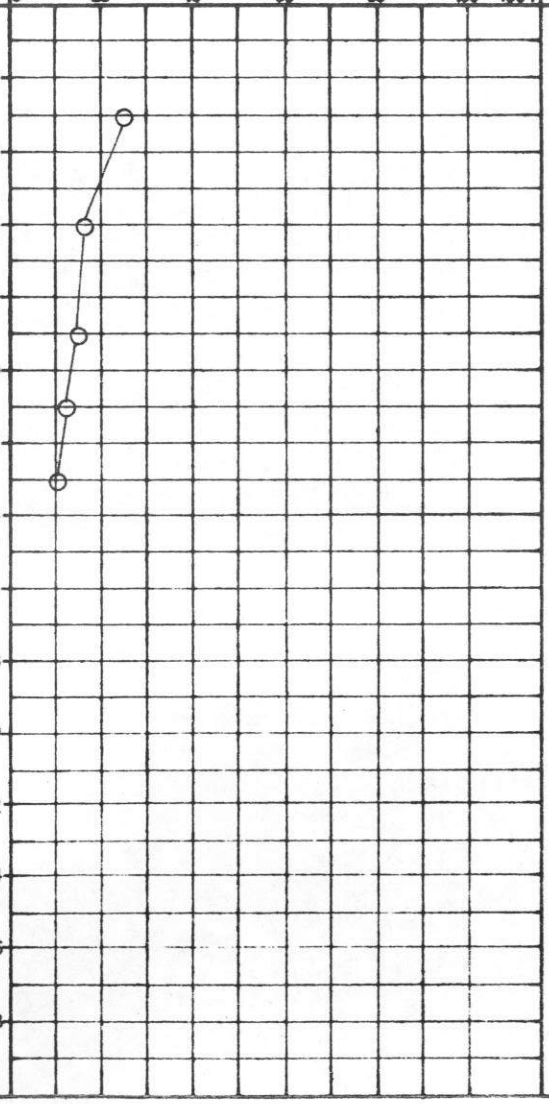
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 956

MILE 762

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1½'		Moderate Ice
2						CLAY		Vc - Vr
4						-Silty		
6						Sandy		Low
8						Pebbles		
10					CL	Low-med plastic		Ice
12					CI		F	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
CLAY %	SILT %	SAND %	GRAVEL %	
				Sat.
				Moist
				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. 17/3/74 | AIRPHOTO NO. A 23334-224 | CHAINAGE. 1992+00 | OFFSET. ℄

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

TEST HOLE 957

MILE 762

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						-Sandy Silty Pebbles								
6								Low					Wet	
8						Low-med. plastic		Ice						
10													Damp	
12					CL		F	Vx					Damp	
14					CI								Damp	
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 80 100 120 140 160 180+

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. 17/3/74 | AIRPHOTO NO. A 23334-224 | CHAINAGE. 1980+00 | OFFSET. ℄

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

TEST HOLE 958

MILE 761

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		Low					Damp	
4						-Silty Sandy Pebbles								
6								Ice					Moist	
8					CL	Low-med. plastic								
10					CI								Damp	
12							F	Vx					Damp	
14													Damp	
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

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. 17/3/74 | AIRPHOTO NO. A 23334-223 | CHAINAGE. 1967+00 | OFFSET. ℄

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

TEST HOLE 959

MILE 761

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								
4						-Sandy							Damp	
6						Silty		Low						
8						Pebbles							Damp	
10					CL	Low-med. plastic		Ice					Damp	
12					CI		F	Vx					Damp	
14													Damp	
16														
18														
20														
22														
24														
26						25' — BOTTOM OF HOLE - 25'									
28														

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 17/3/74 | AIRPHOTO NO. A 23334-223 | CHAINAGE. 1955+00 | OFFSET. ℄

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

TEST HOLE 960

MILE 761

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					SC	SAND -Clayey Silty Pebbles							Damp	
4						— 4'		Low						
6						CLAY -Silty Sandy Pebbles Low-med. plastic		Ice					Damp	
8													Wet	
10					CL		F	Vx					Damp	
12														
14					CI								Damp	
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) 109+

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. 17/3/74 | AIRPHOTO NO. A 23334-223 | CHAINAGE. 1947+00 | OFFSET. ℄

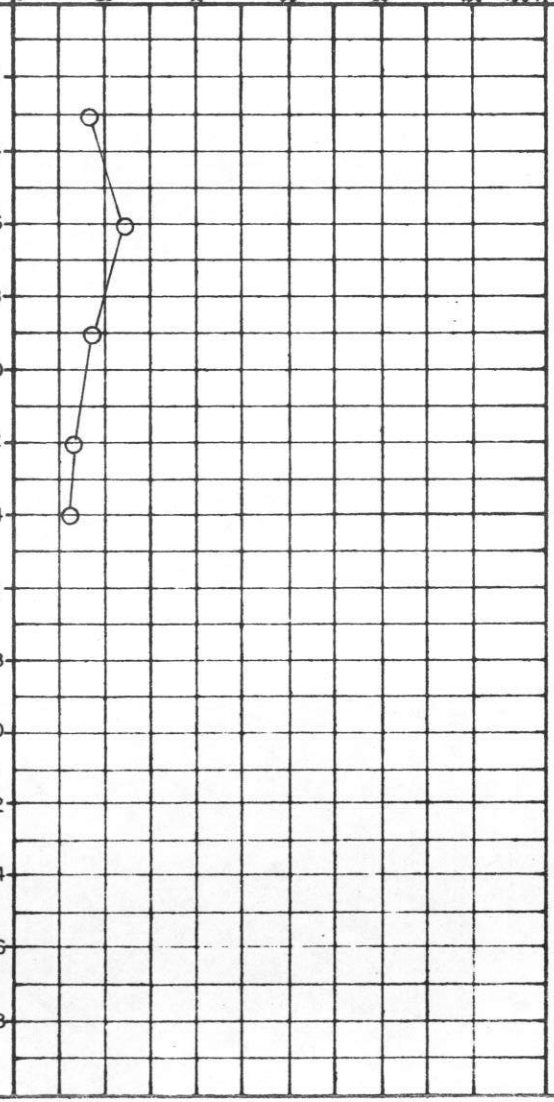
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 961

MILE 761

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						CLAY		Ice
4						-Silty Sandy Pebbles		
6								Vc - Vr
8					CL	Low-med. plastic		
10					CI			Low
12							F	
14								Ice
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				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				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. 17/3/74 | AIRPHOTO NO. A 23334-223 | CHAINAGE. 1933+50 | OFFSET. ℄

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

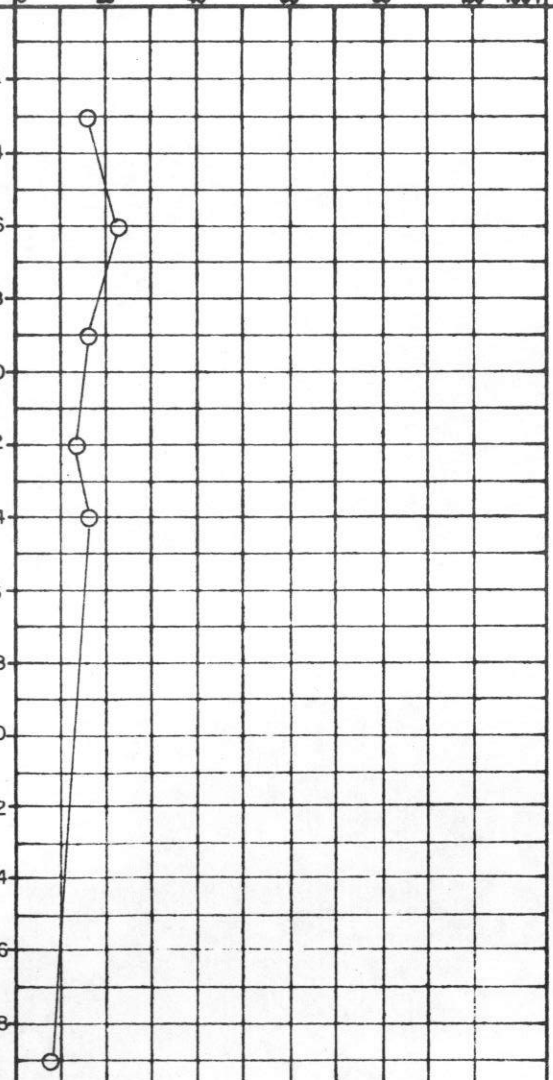
TEST HOLE 962

MILE 760

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						CLAY		Ice
4						-Silty		
						Sandy		
6						Pebbles		Vc - Vr
8								
						Low-med. plastic		Low
10								
					CL		F	Ice
12					CI			
14								
								Vx
16								
18								
						Shale & Silstone Fragments		
20								
22								
24								
26								
28								
						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	
				Wet	
				Moist	
				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. 17/3/74 | AIRPHOTO NO. A 23334-223 | CHAINAGE. 1921+00 | OFFSET. ℄

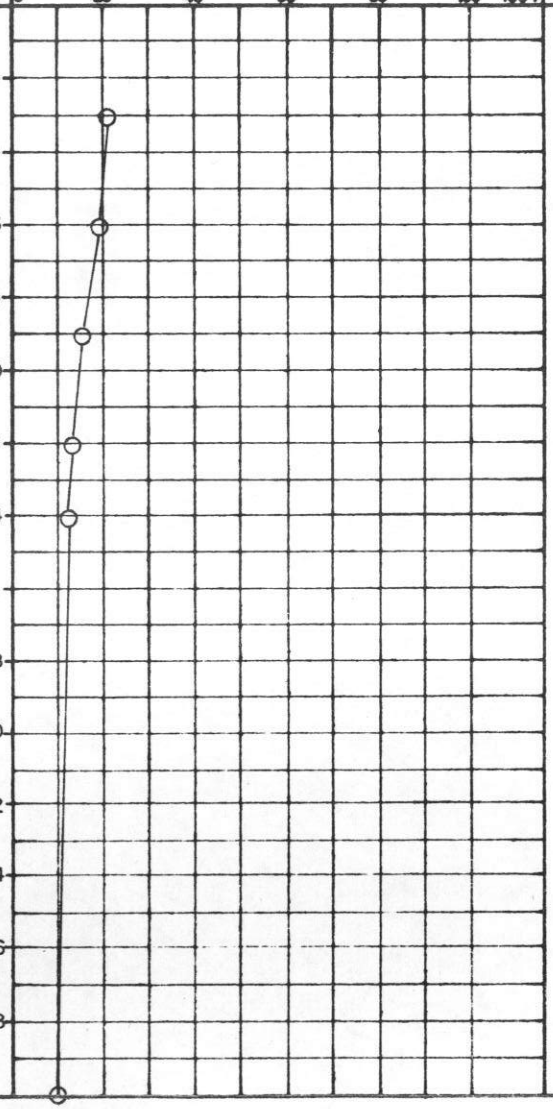
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 963

MILE 760

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						CLAY		Ice
4						-Silty		
						Sandy		
6						Pebbles		Vc - Vr
					CL	Low plastic		
8						— 8'		Low
					SC	SAND		
10						-Silty, clayey		
						Pebbles — 10.5'		
12						CLAY	F	Ice
						-Silty		
14						Sandy		
						Pebbles		
16					CL	Low-med. plastic		Vx
					CI			
18								
20								
22								
24								
26								
28						— 28'		
						SHALE-SILTSTONE		
						-Sandy — 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					Wet	
6					Wet	
8					Wet	
12					Damp	
14					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. 17/3/74 | AIRPHOTO NO. A 23335-150 | CHAINAGE. 1910+00 | OFFSET. ℄

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

TEST HOLE 964

MILE 760

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					CL	CLAY -Silty Sandy Pebbles Low plastic		Low
4								
6								
8						8'		Ice
					SC	SAND -Clayey, silty Pebbles		
10						10'		
12					CI	CLAY -Silty Sandy Pebbles Shale fragments Med plastic	F	Vx
14								
16								
18								
						19'		
20						SHALE -Silty Soft-hard		
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+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Damp	
					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. 17/3/74	AIRPHOTO NO. A 23335-150	CHAINAGE. 1900+00	OFFSET. ℄
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 965

MILE 760

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
2					Pt	PEAT		High Ice					Wet	
4						4'								
6					CL	CLAY -Silty Sandy Pebbles Low-med plastic		Vs					Free Water	
8								Low					Moist	
10					CI	Shale fragments		Ice						
12													Damp	
14													Damp	
15						15'								
16						SHALE-SILTSTONE -Soft-hard		Vx						
18														
20														
22														
24														
26														
28													Damp	
30						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. 17/3/74 | AIRPHOTO NO. A 23335-150 | CHAINAGE. 1889+00 | OFFSET. ℄

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

TEST HOLE 966

MILE 760

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								
6					CL	Low-med. plastic		Vc - Vr
8					CI			Low
10						11'	F	Ice
12						SHALE SILSTONE -Soft-hard		
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
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	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

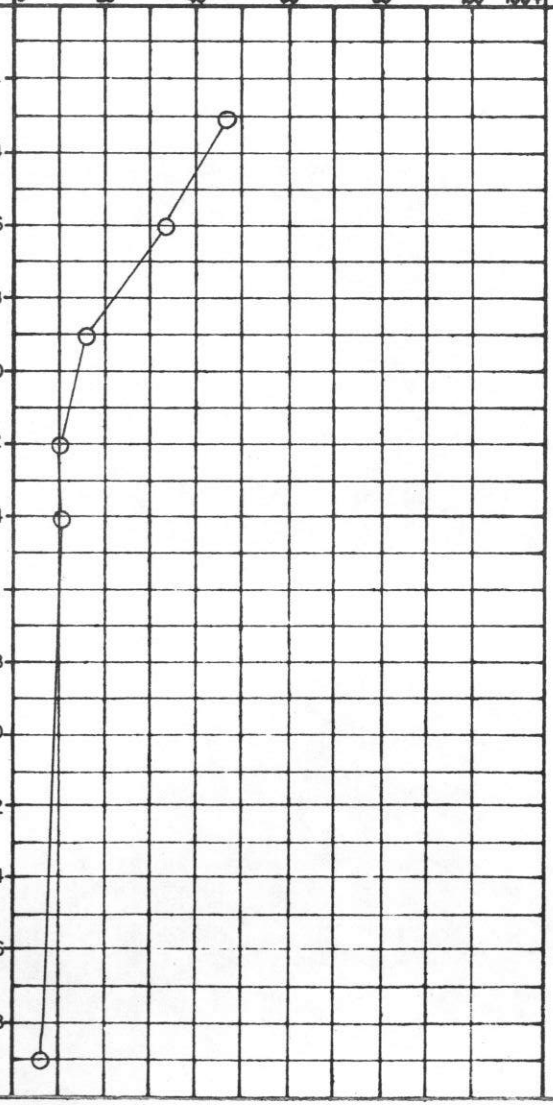
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A 23335-150	CHAINAGE. 1875+00	OFFSET. ℄	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 967
					MILE 759

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					Wet	
4						4'								
6					CI	CLAY -Silty Sandy Pebbles Med. plastic		Vs					Wet	
8														
10							F	Low Ice					Moist	
12						Shale fragments							Damp	
14						13'							Damp	
16						SHALE-SILTSTONE -Soft-hard		Vx						
18														
20														
22														
24														
26														
28														
						30'							Damp	

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 40 20 60 30 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. 17/3/74 | AIRPHOTO NO. A 23335-150 | CHAINAGE. 1861+00 | OFFSET. ℄

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

TEST HOLE 968

MILE 759

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate
1.5'								
2						CLAY -Silty Sandy Pebbles Low-med. plastic		Ice
4								
6								Vc - Vr
8					CL			
10								
11'					CI			Low
12						SHALE-SILTSTONE -Soft-hard	F	
14								Ice
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

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	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Wet	
				Moist	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

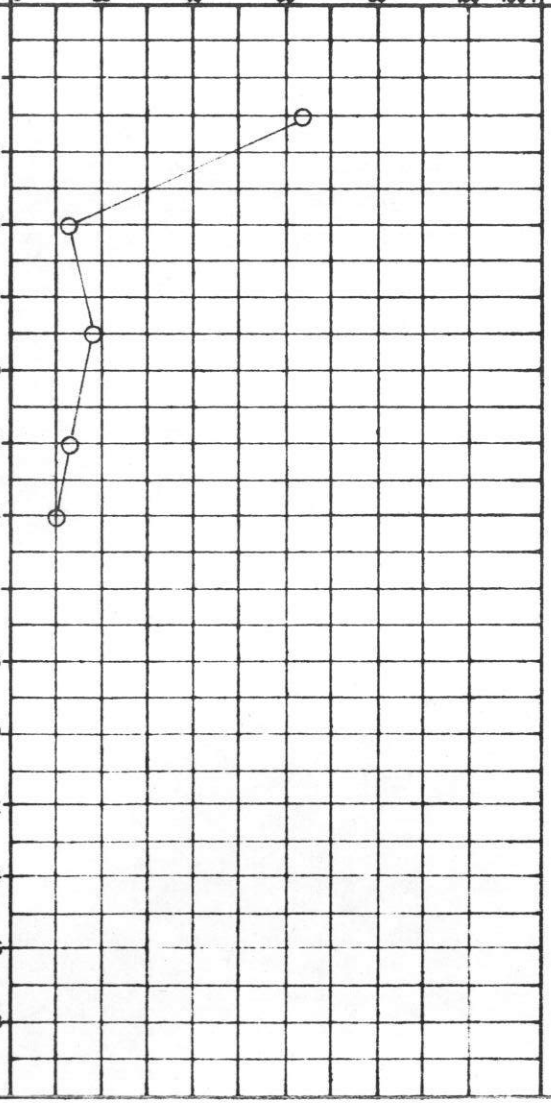
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 17/3/74	AIRPHOTO NO. A 23335-150	CHAINAGE. 1849+00	OFFSET. ℄	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 969 / MILE 759

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'		
6						CLAY -Silty Sandy Pebbles Low-med. plastic		Low
8					CL			Ice
10					CI		F	
12								Vx
14								
16								
18								
						19'		
20						SHALE-SILTSTONE -Hard		
						21'		
22						BOTTOM OF HOLE - 21'		
24								
26								
28								



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

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 17/3/74 | AIRPHOTO NO. A 23335-150 | CHAINAGE. 1837+00 | OFFSET. ℄

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

TEST HOLE 970

MILE 759

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 Vc - Vr
2'					OL	ORGANIC SILT -Clayey		
4'					CL	CLAY -Silty -Sandy -Pebbles Low-med. plastic	F	High Ice Vs
10					CI			Low Ice Vx
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						
6					Free Water	
8						
10					Wet	
12					Damp	
14					Damp	
16						
18						
20						
22						
24						
26						
28						

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. 17/3/74 | AIRPHOTO NO. A 23335-148 | CHAINAGE. 1823+00 | OFFSET. ℄

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

TEST HOLE 971

MILE 758

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						CLAY -Silty Sandy Pebbles Low plastic		Vc - Vr
6								
8								Low Ice
10								
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
0 20 40 60 80 100 120 140 100+

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

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS / BAINE	DATE DRILLED. 17/3/74	AIRPHOTO NO. A23335 - 148	CHAINAGE. 1813 + 00	OFFSET.	TEST HOLE 972
TECH.	RIG. 1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 758

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'		MODERATE ICE						
2						CLAY - SILTY							WET	
4						- SANDY		Vc - Vr						
6						- PEBBLES							WET	
8						LOW PLASTIC								
10					Cl			LOW ICE					DAMP	
12							F						DAMP	
14								Vx					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. 17/3/74 | AIRPHOTO NO. A 23335-148 | CHAINAGE. 1801+50 | OFFSET. ℄

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

TEST HOLE 973

MILE 758

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		Low
2						CLAY		To
						-Silty		
4						Sandy		Moderate
						Pebbles		Ice
6								Vx
8					CL	Low-med. plastic		Vc - Vr
					CI			Low
10								
12							F	Ice
14								
16								Vx
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	
				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. 17/3/74	AIRPHOTO NO. A 23335-148	CHAINAGE. 1791+00	OFFSET. ℄
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 974

MILE 758

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		
2–10					CI	CLAY -Silty Sandy Pebbles Med plastic	F	Low Ice Vx
10–29								

DEPTH (FEET) 2 4 6 8 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 %		
				2' Damp	
				4' Damp	
				6' Damp	
				8' Damp	
				10' Damp	
				12' Damp	
				14' Damp	

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. 17/3/74 | AIRPHOTO NO. A 23335-148 | CHAINAGE. 1777+00 | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE & TAMARACK 6" | ELEV.

TEST HOLE 975

MILE 757

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	F	Moderate Ice	Sat.
1.2'									
2						CLAY -Silty Sandy Pebbles Low-med plastic		Vc - Vr	
4									
6								Low	Damp
8									
10					CL CI			Ice	Damp
12									Damp
14								Vx	
16									Damp
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 %

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. 17/3/74 | AIRPHOTO NO. A 23335-148 | CHAINAGE. 1764+00 | OFFSET. ℄

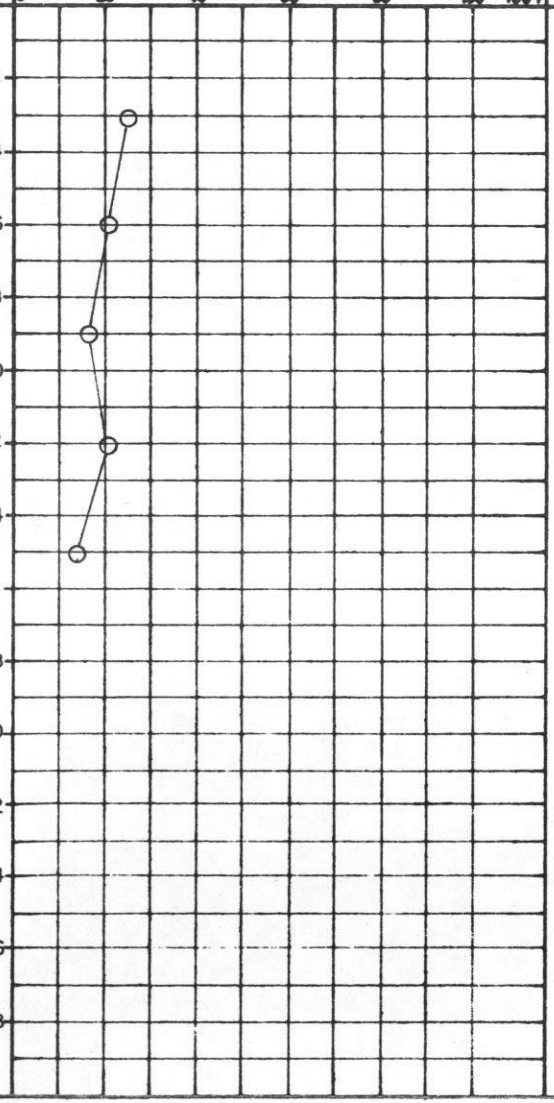
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE - TAMARACK | ELEV.

TEST HOLE 976

MILE 757

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
1.6'								
2					CL	CLAY -Silty Organic to 4' Sandy Pebbles Low plastic	F	Moderate Ice Vc - Vr
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
				Wet
				Moist
				Wet
				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. 17/3/74 | AIRPHOTO NO. A 23335-146 | CHAINAGE. 1753+00 | OFFSET. ℄

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

TEST HOLE 977

MILE 757

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 — 1.1'								
2						CLAY								
4						-Silty		Low					Damp	
6						Sandy							Damp	
8						Pebbles		Ice						
10					CI	Med plastic	F						Damp	
12								Vx					Damp	
14													Damp	
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 60 80 100 120 140 100+
0 20 40 60 80 100

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. 17/3/74	AIRPHOTO NO. A 23335-146	CHAINAGE. 1740+00	OFFSET. ℄	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 6"	ELEV.	

TEST HOLE 978

MILE 757

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–16					Pt	PEAT	F	High Ice Vs
16–30					CL CI	CLAY -Silty Sandy Pebbles Low-med. plastic		

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

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	40 / 0	60 / 20	80 / 40	100 / 60	120 / 80	140 / 100	100+
2							
4							
6						184	
8							
10						349	
12						408	
14						686	
16							
18							
20							
22							
24							
26							
28							

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

16'

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. 17/3/74 | AIRPHOTO NO. A 23335-146 | CHAINAGE. 1730+00 | OFFSET. ℄

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

TEST HOLE 979

MILE 757

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 — 1.4'								
2						CLAY -Silty Sandy Pebbles Med plastic		Low					Damp	
4														
6								Ice					Damp	Hole in Bag
8													Damp	
10					CI		F							
12								Vx					Damp	
14													Damp	
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
0 20 40 60 80 100 120 140 160 100+

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. 17/3/74 | AIRPHOTO NO. A 23335-146 | CHAINAGE. 1722+00 | OFFSET. ℄

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

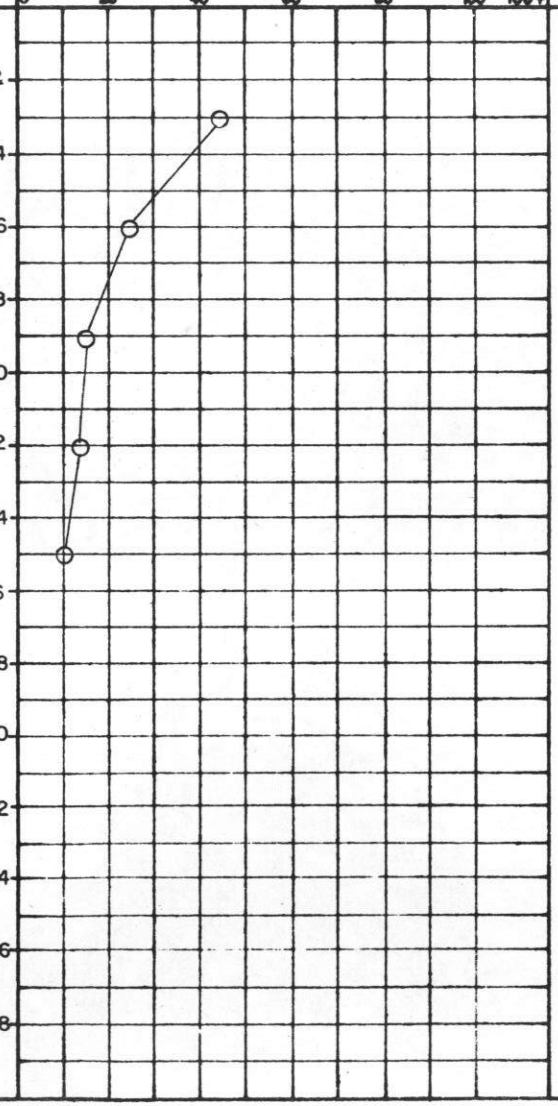
TEST HOLE 980

MILE 756

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'		High Ice Vs
2						CLAY -Silty Sandy		
4								Moderate Ice Vc - Vr
6					CL	Low-med. plastic		
8								Low Ice Vx
10					CI			
12						Pebbles	F	
14								
16								
18								
20								
22								
24								
26								
28						30'		

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)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0						
2					Free Water	
4						
6					Wet	
8						
10					Damp	
12					Damp	
14						
16					Damp	
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. 17/3/74 | AIRPHOTO NO. A 23335-146 | CHAINAGE. 1708+00 | OFFSET. ℄

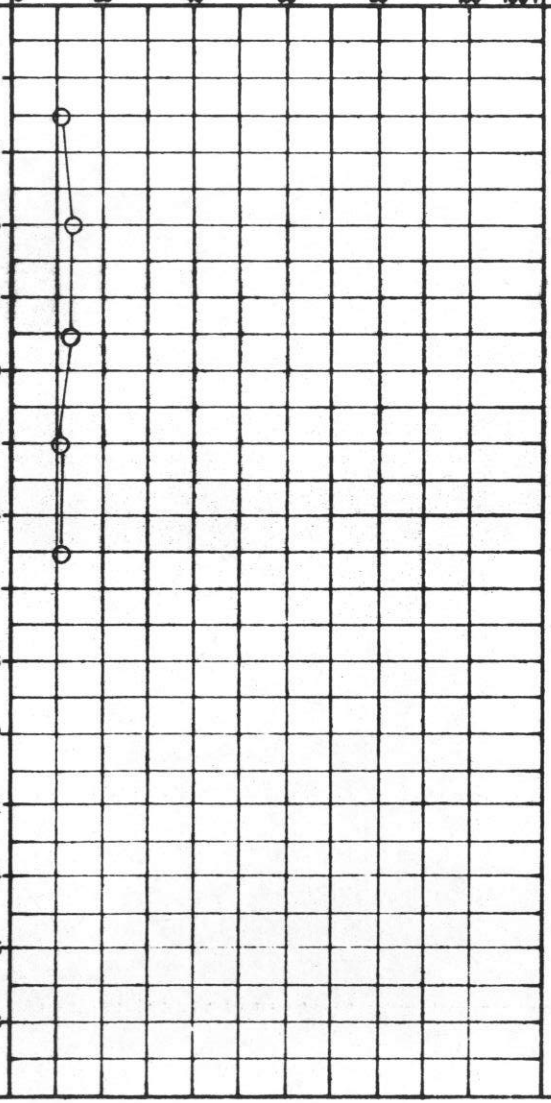
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE - TAMARACK 6" | ELEV.

TEST HOLE 981

MILE 756

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'		
2						CLAY -Silty Sandy Pebbles Med plastic		Low
4								
6								Ice
8								
10					CI		F	Vx
12								
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)	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 - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 18/3/74	AIRPHOTO NO. A 23335-146	CHAINAGE. 1696+00	OFFSET. ℄	TEST HOLE 982
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE - TAMARACK 7"	ELEV.	MILE 756

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
2						CLAY -Silty Sandy Pebbles		
4								
6								Vc - Vr
8					CI	Low-med. plastic		
10					CL		F	Low Ice
12								
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

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						
2					Wet	
4						
6					Wet	
8					Moist	
10						
12					Damp	
14						
16					Damp	
18						
20						
22						
24						
26						
28						

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. 18/3/74	AIRPHOTO NO. A 23335-146	CHAINAGE. 1684+00	OFFSET. ℄	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE 8" - ALDERS	ELEV.	TEST HOLE 983
					MILE 756

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 — 1.4'								
2						CLAY -Silty Sandy Pebbles		Low					Moist	
4														
6						Low-med. plastic		Ice					Damp	
8					CL									
10					CI		F						Damp	
12								Vx					Damp	
14													Damp	
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 60 80 100 120 140 100+
0 20 40 60 80 100

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. 18/3/74 | AIRPHOTO NO. A 23334-216 | CHAINAGE. 1674+00 | OFFSET. ℄

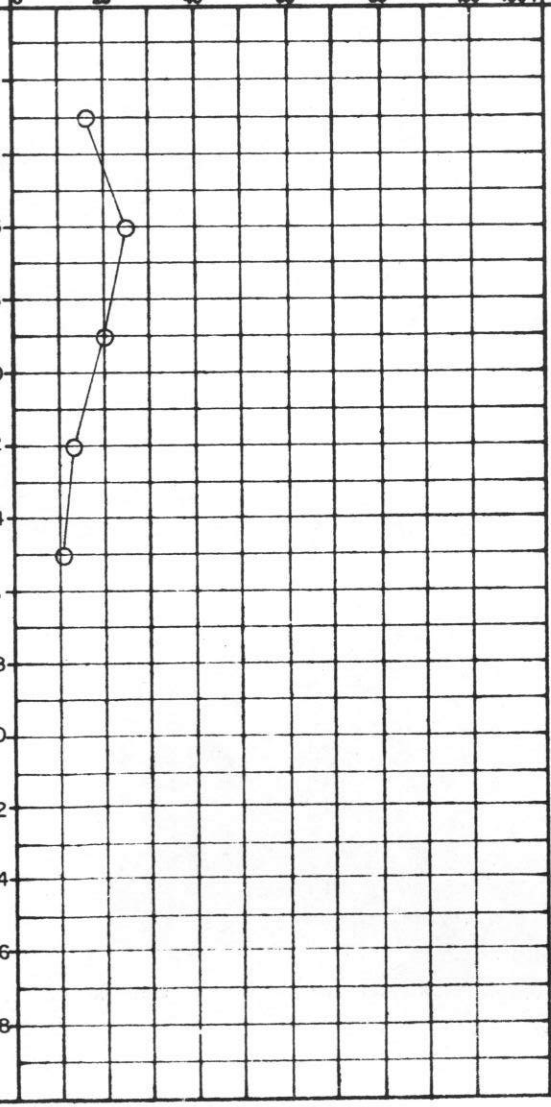
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. 5" | ELEV.

TEST HOLE 984

MILE 756

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Low Ice Vx
1.7'								
2						CLAY -Silty Sandy		
4								Moderate Ice Vc - Vr
6								
8						Pebbles		
10					CL	Low-med. plastic		Low
12					CI		F	
14								Ice
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				RELATIVE THAWED MOISTURE CONTENT
CLAY %	SILT %	SAND %	GRAVEL %	
				Damp
				Wet
				Moist
				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. 18/3/74 | AIRPHOTO NO. A 23334-216 | CHAINAGE. 1663+00 | OFFSET. ℄

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

TEST HOLE 985

MILE 755

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'		Moderate Ice						
2						CLAY -Silty Sandy Pebbles							Moist	
4														
6								Vc - Vr					Moist	
					CL	Low-med. plastic								
8								Low						
10					CI								Moist	
12							F	Ice					Damp	
14													Damp	
16								Vx						
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. 18/3/74	AIRPHOTO NO. A 23334-216	CHAINAGE. 1653+00	OFFSET. ℄	TEST HOLE 986
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 755

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							Moist	
						Sandy								
						Pebbles								
6						Low plastic		Low					Moist	
8					CL			Ice						
10													Moist	
12							F						Damp	
14						Gravelly							Damp	
16														
18														
20						Pebbles								
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 60 80 100 120 140 100+
0 20 40 60 80 100

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. 18/3/74	AIRPHOTO NO. A 23334-216	CHAINAGE. 1645+00	OFFSET. ℄	TEST HOLE 987
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 755

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 .5'								
2						CLAY								
						-Silty		Low					Damp	
4						Sandy								
						Pebbles								
6													Damp	
						Med. plastic		Ice						
8													Damp	
10					CI		F							
12								Vx					Damp	
14													Damp	
16														
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. 18/3/74 | AIRPHOTO NO. A 23334-216 | CHAINAGE. 1631+00 | OFFSET. ℄

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

TEST HOLE 988

MILE 755

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 .5'		Moderate Ice					Moist	
2						CLAY -Silty Sandy Pebbles								
4														
6						Organics 5'-7'		Vc - Vr					Sat.	
8						Low-Med. plastic								
10					CL								Moist	
					CI		F	Low					Damp	
12														
14								Ice					Damp	
16														
18								Vx						
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. 18/3/74 | AIRPHOTO NO. A 23334-215 | CHAINAGE. 1617+00 | OFFSET. ℄

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

TEST HOLE 989

MILE 754

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
0					Pt	PEAT — .5'			0
2						CLAY -Silty Sandy Pebbles Med plastic		Low	2
4									4
6									6
8					CI			Ice	8
10							F		10
12								Vx	12
14									14
16									16
18									18
20									20
22					SC	LAYERS OF SAND & CLAY — 22'			22
24					CL				24
26					SP	SAND -Med. grained — 25'			26
28						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+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Humid	Hole in Bag
				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. 18/3/74	AIRPHOTO NO. A 23334-215	CHAINAGE. 1605+00	OFFSET. ℄	TEST HOLE 990
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 754

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							Damp	
4						-Silty		Low						
6						Sandy							Damp	Hole in Bag
8						Pebbles		Ice						
10					CI	Med. plastic	F						Damp	Hole in Bag
12													Damp	
14								Vx					Damp	
16														
18														
20														
						21'								
22						Layers of								
24						CLAY								
26						SHALE								
28						SAND								
						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. 18/3/74 | AIRPHOTO NO. A 23334-215 | CHAINAGE. 1594+00 | OFFSET. ℄

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

TEST HOLE 991

MILE 754

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'		
4						CLAY -Silty Sandy Pebbles		Low
6								Ice
8								
10					CI	Some organics from 5'-7'	F	
12								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	100+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				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. 18/3/74 | AIRPHOTO NO. A 23334-215 | CHAINAGE. 1584+00 | OFFSET. ℄

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

TEST HOLE 992

MILE 754

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								
						-Silty		Low						
4						Sandy							Moist	
						Pebbles								
6													Moist	
						Low-med. plastic		Ice						
8					CL									
10							F						Damp	
12					CI			Vx					Damp	
14													Damp	
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 | 109+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

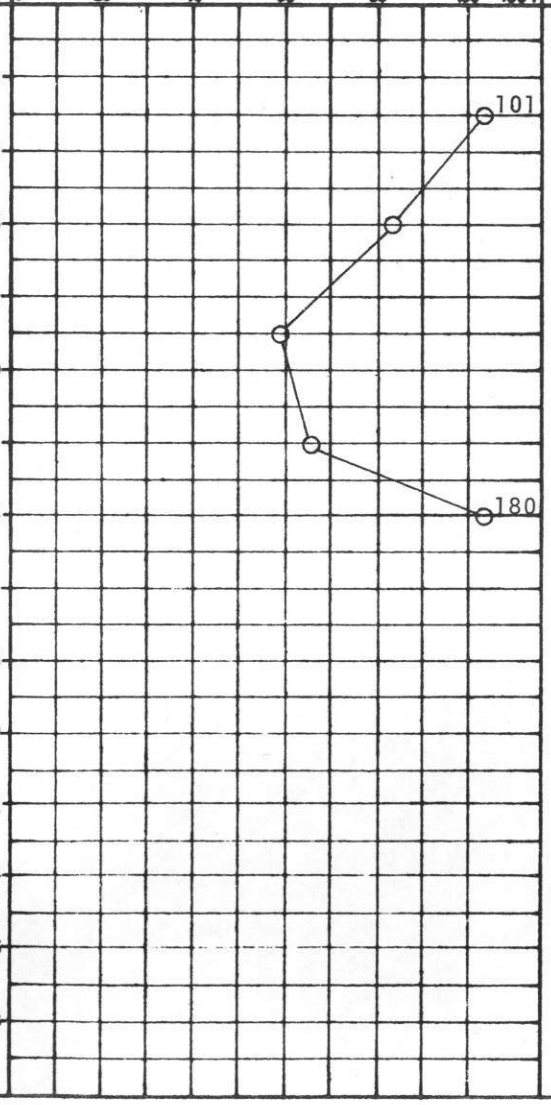
DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS	DATE DRILLED. 18/3/74	AIRPHOTO NO. A 23334-213	CHAINAGE. 1574+00	OFFSET. ℄	TEST HOLE 993
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 754

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					Sat.	
4														
6													Sat.	
7'								Ice						
8						CLAY -Silty Sandy Organic to 15'								Free Water	
10							F							
12								Vs					Free Water	
14													Free Water	
16														
18														
20														
20'						GRAVEL -Sandy Clayey									
22														
24						CLAY -Gravelly Sandy In Layers									
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: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 18/3/74 | AIRPHOTO NO. A23334 - 213 | CHAINAGE. 1566 + 50 | OFFSET.

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

TEST HOLE 994

MILE 753

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'								
						CLAY - SANDY								
						- SILTY			-65	-	33	2	WET	
					Cl	- PEBBLES		LOW						
						LOW PLASTIC		ICE	-67	-	33	0	DAMP	
						SANDY - CLAYEY								
						- SILTY			-37	-	63	0	DAMP	
						- PEBBLES		Vx						
					Sc		F		-42	-	58	0	DAMP	
									-35	-	65	0	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+
0 20 40 60 80 100

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. 18/3/74	AIRPHOTO NO. A 23334-213	CHAINAGE. 1556+00	OFFSET. ℄	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 995
					MILE 753

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
0-2					Pt	PEAT		High Ice					Free Water	
2-13					CL	CLAY -Organic mat. to 4' Sandy Silty Pebbles Low plastic	F	Vs Vx Low					Wet / Wet / Moist	
13-20						SANDSTONE -Hard		Nbn					Damp	
20						Limestone Hard		Frozen					Damp	
						BOTTOM OF HOLE - 20' Drilled to Refusal No Rock Bit used								

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. N. BURGRESS | DATE DRILLED. 18/3/74 | AIRPHOTO NO. A 23334-213 | CHAINAGE. 1551+00 | OFFSET. ℄

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

TEST HOLE 996

MILE 753

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 -Clayey Broken down rock Siltstone?			Moist
4						4'			
6						CLAY -Silty Sandy Layers of siltstone		Low	Moist
8					CL	Low-med. plastic Silty sandy		Ice	Moist
10							F		
12						Pebbles		Vx	Moist
14					CI				Damp
16						Gravelly			
18									
20									
22									
24									
26						26'			Damp
28						SHALE & SANDSTONE			
						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 %

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. 18/3/74	AIRPHOTO NO. A 23334-213	CHAINAGE. 1540+00	OFFSET. ℄	TEST HOLE 997
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 753

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'		Moderate Ice Vc - Vr					Sat.	
2					CL	CLAY -Silty Sandy Sandstone chips Low plastic 5'		Low					Moist	
6					SC	SAND -Silty, clayey Sandstone chips Possible sandstone 8'		Ice					Moist	
10					CL	CLAY-Silty, sandy Sandstone chips 10'	F						Moist	
12					SC	SAND-Clayey, silty Possible Sandstone 13'		Vx					Moist	
14					CL	CLAY -Silty, sandy Sandstone 80% limestone 16'								
16						LIMESTONE -Hard		Frozen Nbn						
18														
20														
22														
24														
26														
28						30'							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. 18/3/74	AIRPHOTO NO. A 23334-213	CHAINAGE. 1529+00	OFFSET. ℄
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 998

MILE 753

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'						SHALE -Soft With layers of siltstone or limestone	F	Low Ice Vx					Moist Damp Moist Moist	
30'						SHALE -Soft Chips of rock down to 30'							Moist	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

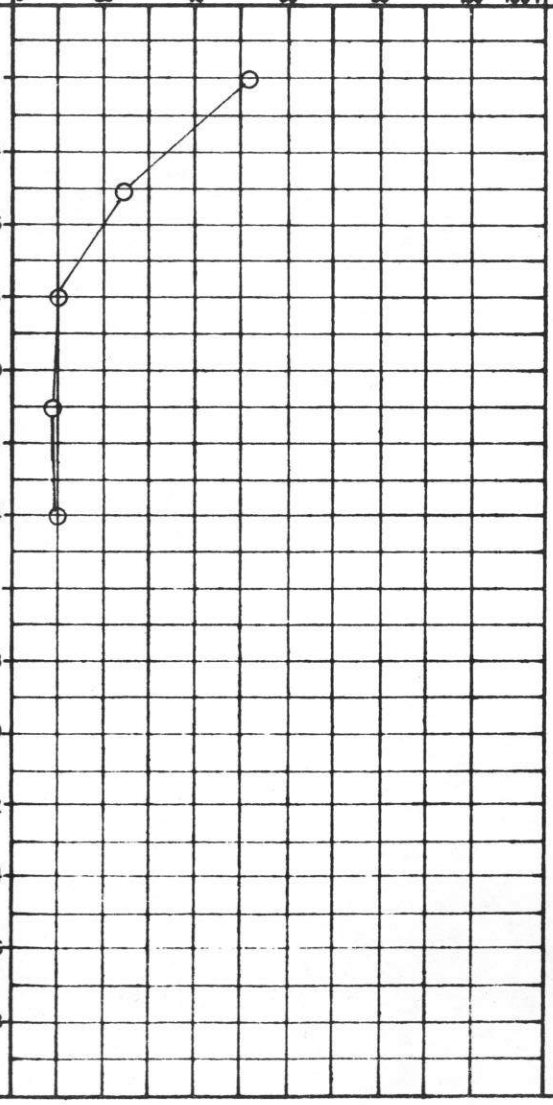
FIELD ENG. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 23334-213	CHAINAGE. 1521+00	OFFSET. ℄	TEST HOLE 999
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - TAMARACK 6"	ELEV.	MILE 753

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 To Moderate Ice
4						4.5'		
6					CL	CLAY -Silty Sandy Sandstone frags.		Vs-Vc-Vr
8						7½'		
10						LIMESTONE Ground down		Low
12								
14								
16								Ice
18								
20								Vx
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 80 140 100 109+



GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Sat.	
				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. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 23334-213 | CHAINAGE. 1510+00 | OFFSET. ℄

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

TEST HOLE 1000

MILE 752

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	CLAY -Sandy Silty Pebbles		Low
6						— 5'		
8						SAND -Silty Clayey Sandstone soft?		Ice
10						SANDSTONE	F	
12								Vx
14						Siltstone Shale		
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+

DEPTH (FEET)
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	
				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. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 23334-213 | CHAINAGE. 1496+00 | OFFSET. ℄

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

TEST HOLE 1001

MILE 752

POPLAR

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'		Moderate						
2						CLAY		&					Moist	
4						-Silty								
6					CL	Sandy Pebbles Low plastic		Low					Wet	
8						— 7.5'		Ice					Moist	
10						SANDSTONE -Ground down	F	Vc - Vr					Moist	
12								Vx						
14						Siltstone frags.							Wet	
16						Limestone								
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. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 22761-123 | CHAINAGE. 1485+00 | OFFSET. ℄

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

TEST HOLE 1002

MILE 752

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			
1.5'									
2						CLAY		Moderate	Moist
4						-Silty			
						Sandy		To	Moist
6						Sandstone frags.			
						Siltstone frags.		Low	
8					CL	Low-med. plastic		Ice	Moist
10					CI		F		
									Moist
12								Vc - Vr	
14									Moist
16								Vx	
18									
20									
22									
24									
26									
26'						SHALE			
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	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. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-123	CHAINAGE. 1476+00	OFFSET. ℄	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-TAMARACK	ELEV.	TEST HOLE 1003 / MILE 752

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						
2						CLAY							Moist	
4					CL	-Silty Sandy Low-med. plastic		To						
6						Sandstone frags. Siltstone frags. Shale frags.		Low					Moist	
8					CI								Moist	
10							F	Ice						
12						— 11'							Damp	
14						SHALE-SILTSTONE Sandstone Soft		Vc - Vr					Damp	
16														
18								Vx						
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. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-123	CHAINAGE. 1468+00	OFFSET. ℄	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-TAMARACK	ELEV.	TEST HOLE 1004 / MILE 752

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		
						-Silty		
						Sandy		
6					CL	Pebbles		Vc - Vr
						Low-med. plastic		
8					CI			
						Sandstone frags.		
10								
						11'		
12						SHALE	F	Low
						-Siltstone		
14						Sandstone		Ice
16								
18								Vx
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				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Moist	
				Damp	
				Moist	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-123	CHAINAGE. 1459+00	OFFSET. ℄
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-TAMARACK	ELEV.

TEST HOLE 1005

MILE 751

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		Low
4						-Silty Sandy Pebbles		
6					CL	Low-med. plastic		
8					CI	Sandstone frags.		Ice
10						10'	F	
12						SANDSTONE -Soft		Vx
14								
16								
18								
20								
22								
24								
26						SHALE -Sandstone		
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 %		
				Moist	
				Moist	
				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. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-123	CHAINAGE. 1450+00	OFFSET. ℄
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-TAMARACK	ELEV.

TEST HOLE 1006

MILE 751

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'		Moderate Ice					Wet	
2					CL	CLAY -Silty Sandy Sandstone-limestone fragments								
4								Vc - Vr					Wet	
6					CI									
8						8'							Moist	
10						SHALE-SANDSTONE -Ground down	F	Low					Moist	
12						SANDSTONE								
14						SILTSTONE-SANDSTONE -Soft		Ice					Damp	
16														
18								Vx						
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. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 22761-123 | CHAINAGE. 1444+00 ℓ | OFFSET. ℄

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 10" | ELEV.

TEST HOLE 1007

MILE 751

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					CL CI	CLAY -Silty Sandy Pebbles Limestone frags. Low-med. plastic		Moderate Ice Vc - Vr					Moist	
4													Wet	
6														
8													Wet	
10						10'	F						Damp	
12						LIMESTONE-SANDSTONE SILTSTONE		Low						
14						LIMESTONE							Damp	
16								Ice						
18														
20								Vx					Humid	
22														
24														
26													Damp	
28						SHALE -Limestone 30'								
													Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 22761-123 | CHAINAGE. 1438+50 | OFFSET. ℄

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

TEST HOLE 1008

MILE 751

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						CLAY -Silty Sandy Pebbles			Wet
4					CL	SHALE-SILT-SANDSTONE FRAGMENTS		Low	
6									Damp
						Low plastic — 8'		Ice	
8									Damp
						SHALE SILTSTONE SANDSTONE	F		
10									
12									Damp
								Vx	
14									Damp
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
0 20 40 60 80 100 120 140 160 180+

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. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-123	CHAINAGE. 1431+00	OFFSET. ℄	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-POPLAR	ELEV.	TEST HOLE 1009
					MILE 751

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'								
2						CLAY -Silty Sandy Pebbles							Moist	
4					CL									
6						Low-med. plastic		Low					Damp	
8					CI			Ice						
10							F						Damp	
11						— 11'								
12						SHALE-SILTSTONE							Damp	
14								Vx					Damp	
16														
18														
20														
22														
24														
26														
28														
30						— 30'								

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 22761-121 | CHAINAGE. 1425+00 | OFFSET. ℄

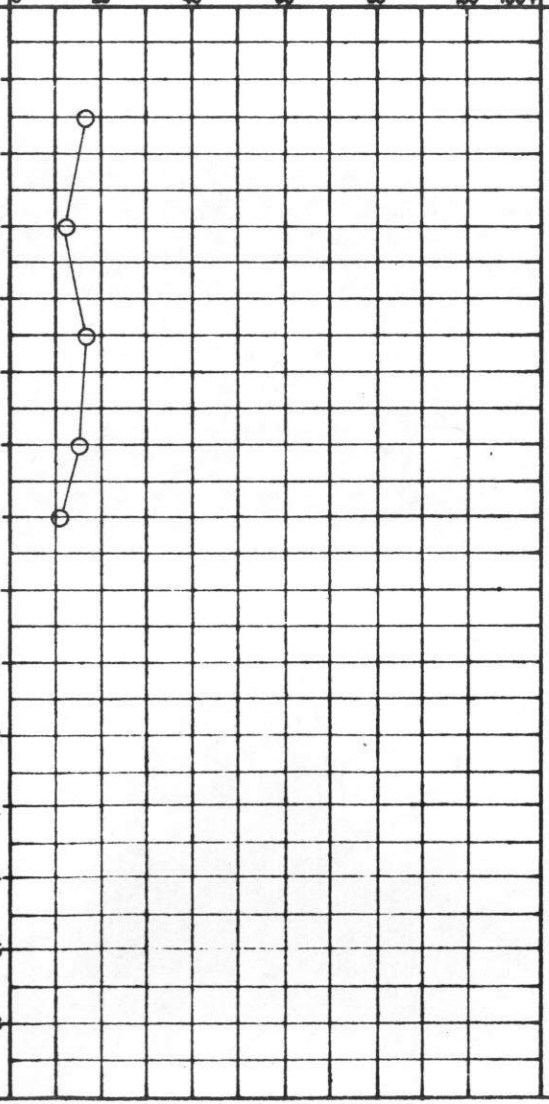
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 5" | ELEV.

TEST HOLE 1010

MILE 751

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
1'								
2					SC	SAND -Silty Clayey		
4								
6						Pebbles		Moderate Ice
8								
8'								
10					CL	CLAY -Silty Sandy Pebbles Low plastic	F	Vc - Vr
12								
14								
14'								Low Ice Vx
16						SHALE-SILTSTONE		
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	
				Wet	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 22761-121 | CHAINAGE. 1417+00 | OFFSET. ℄

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

TEST HOLE 1011

MILE 751

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						CLAY		Ice
4						-Silty		
						Sandy		
6						Pebbles		Vc - Vr
					CL	Low plastic		
8						— 8'		
						SAND		Low
10						-Silty		
						Clayey		
12						Pebbles	F	Ice
					SC			
14								
16						SANDSTONE ?		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
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.	
				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. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-121	CHAINAGE. 1410+00	OFFSET. ℄	TEST HOLE 1012
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-TAMARACK	ELEV.	MILE 751

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								
4						-Silty Sandy Gravelly		Low					Moist	
6					CL	Pebbles Low plastic							Moist	
8						— 8'		Ice						
10						SAND -Silty Clayey Pebbles	F						Damp	
12					SC								Damp	
14						Sandstone fragments		Vx					Damp	
16						Sandstone ?								
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 60 80 100 120 140 100+
0 20 40 60 80 100

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 22761-121 | CHAINAGE. 1404+00 | OFFSET. ℄

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

TEST HOLE 1013

MILE 750

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						CLAY		
						-Silty		
						Sandy		
4					CL	Pebbles		Ice
						Low-med. plastic		
6								Vc - Vr
					CI			
8								
10						— 10.5'		
						SAND		
12						-Silty		
						Clayey	F	Low
14					SC	Sandstone fragments		
								Ice
16						Sandstone ?		
18								
								Vx
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

0 | 40 20 | 60 30 | 80 40 | 100 50 | 120 60 | 140 70 | 100+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				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. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-121	CHAINAGE. 1394+00	OFFSET. ℄	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 6"	ELEV.	TEST HOLE 1014
					MILE 750

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate
						1.5'		
2						CLAY -Silty Organic to 4' Sandy Pebbles		Ice
4								
6					CL CI	Low-med. plastic		Vc - Vr
8						8'		
						SAND -Silty Sandstone frags. Siltstone frags.	F	Vx
10								
12								Low
14						Sandstone ? Siltstone		
16								Ice
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+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Wet	
				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. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 22761-121 | CHAINAGE. 1386+00 | OFFSET. ℄

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

TEST HOLE 1015

MILE 750

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
4					SC	SAND -Clayey, silty — 4'		
6					CL	CLAY -Silty Sandy Pebbles Low plastic	F	Vc - Vr
8								
10								Low Ice
12								
14						— 15'		
16						SHALE SANDSTONE SILTSTONE		Vx
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	
				Wet	
				Wet	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 22761-121 | CHAINAGE. 1382+00 | OFFSET. ℄

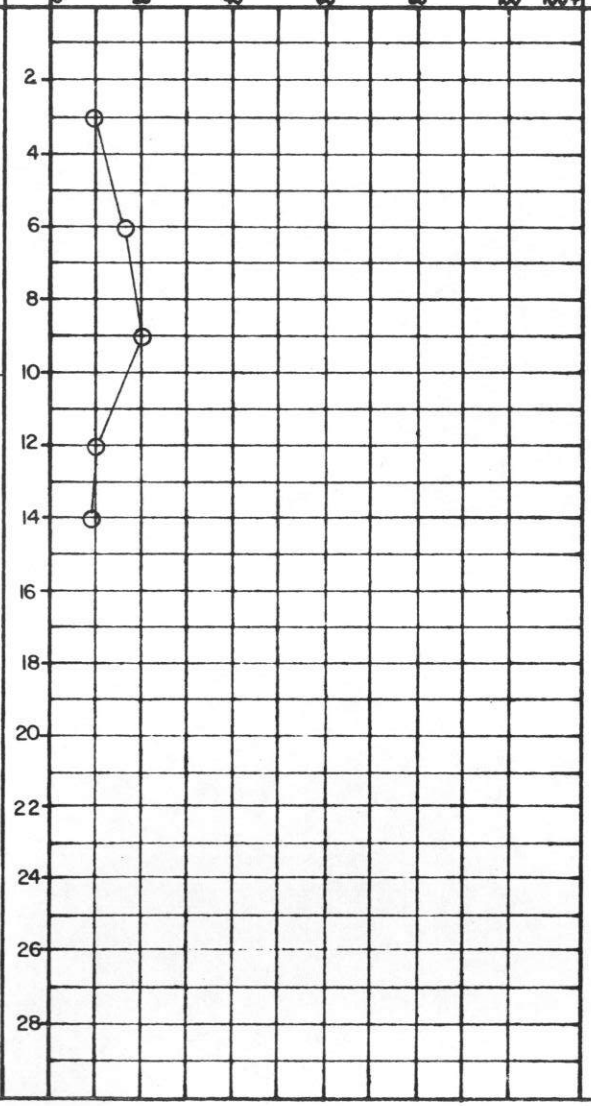
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1016

MILE 750

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 -Silty Clayey Gravelly — 4'		Moderate & Low Ice Vx
4								
6						CLAY -Silty Sandy Pebbles Med plastic		
8								Vc - Vr
10							F	
12					CI			Low
14								Ice
16								
18								Vx
20								
22						— 22'		
24						SHALE-SANDSTONE -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



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

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. A. TENOVE | DATE DRILLED. 29/3/74 | AIRPHOTO NO. A 22761-121 | CHAINAGE. 1373+00 | OFFSET. ℄

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

TEST HOLE 1017

MILE 750

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						CLAY		Ice
4						-Silty		
						Sandy		
						Pebbles		
					CL	Low plastic		
6								Vc - Vr
8						— 8'		
						SAND		Low
					SM	-Silty, gravelly		
10						— 10'		
						CLAY		Ice
12						-Silty		
						Sandy		
						Gravelly		
14							F	
16					CL	Low-med. plastic		Vx
					CI			
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+
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
Wet
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. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-121	CHAINAGE. 1366+00	OFFSET. ℄	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 1018
					MILE 750

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 Sandy Pebbles Low-med. plastic		Low					Moist	
4														
6								Ice					Moist	
8					CL								Damp	
10					CI		F							
12						Gravelly		Vx					Damp	
14													Damp	
16														
17						— 17'								
18						SHALE -Soft to med. hard								
20														
22														
24														
26														
28														
30						— 30'								

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-119	CHAINAGE. 1354+00	OFFSET. ℄	TEST HOLE 1019
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 749

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 -Silty Sandy Pebbles Low-med. plastic		Low					Damp	
4														
6													Damp	
8					CL		F	Ice						
10													Damp	
12								Vx					Damp	
14					CI								Damp	
16														
18														
20														
22														
24														
26														
27						SHALE -Med. hard								
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: SECTION D

FIELD ENG. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-119	CHAINAGE. 1348+00	OFFSET. ℄	
TECH. WEBBER	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 1020
					MILE 749

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					Cl	CLAY -Silty Sandy Pebbles Brown Grey @ 11'		Low Ice Vx					Moist	
4													Moist	
6														
8													Moist	
10													Damp	
12													Damp	
14														
16														
18														
20														
22														
24						Shale @ 25'								
26														
28						30'								

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-119	CHAINAGE. 1339+00	OFFSET. ℄
TECH. WEBBER	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1021

MILE 749

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2					CI	CLAY -Silty Sandy Pebbles Brown		Low
4								
6								Ice
8						Grey @ 8'		Vx
10								
12								
14								
16								
18								
20								
22								
24						Shale @ 25'		
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	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-119	CHAINAGE. 1332+00	OFFSET. ℄	TEST HOLE 1022
TECH. WEBBER	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 749

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					Cl	CLAY -Silty Sandy Pebbles Brown		Low					Moist	
4														
6								Ice					Moist	
8						Grey @ 8'							Damp	
10								Vx						
12													Damp	
14													Damp	
16														
18														
20						Gravelly @ 20'								
22														
24														
26														
28						Shale @ 28'								
						30'								

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-119	CHAINAGE. 1323+00	OFFSET. ℄
TECH. WEBBER	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1023

MILE 749

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Vc - Vr
1'								
2					CL	CLAY -Silty S ndy Pebbles Brown		Moderate Ice
4								
6								Low Ice
8					CI	Grey @ 8'		
10								Vx
12								
13'								
14						SHALE -Soft-hard		
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 60 80 100 120 140 100+
0 20 40 60 80 100

GRAIN-SIZE ANALYSIS	CLAY	SILT	SAND	GRAVEL	RELATIVE THAWED MOISTURE CONTENT	REMARKS
	%	%	%	%		
2					Damp	
4					Damp	
6						
8					Damp	
10					Damp	
12						
13'					Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-119	CHAINAGE. 1312+00	OFFSET. ℄	TEST HOLE	1024
TECH. WEBBER	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE	749

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					CI	CLAY -Silty Sandy Pebbles Brown		Low Ice Vx					Damp	
4													Damp	
6														
8													Damp	
10													Damp	
12						— 11'								
14						SHALE -Soft Grey							Damp	
16														
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: SECTION D

FIELD ENG. A. TENOVE	DATE DRILLED. 29/3/74	AIRPHOTO NO. A 22761-119	CHAINAGE. 1301+00	OFFSET. ℄	TEST HOLE 1025
TECH. WEBBER	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 748

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'		Vc - Vr		
2					CI	CLAY -Silty Sandy Pebbles Brown		Moderate Ice	Damp	
4									Damp	
6								Low Ice		
8									Damp	
10						Grey @ 11'		Vx	Damp	
12										
						13'			Damp	
14						SHALE -Soft				
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	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

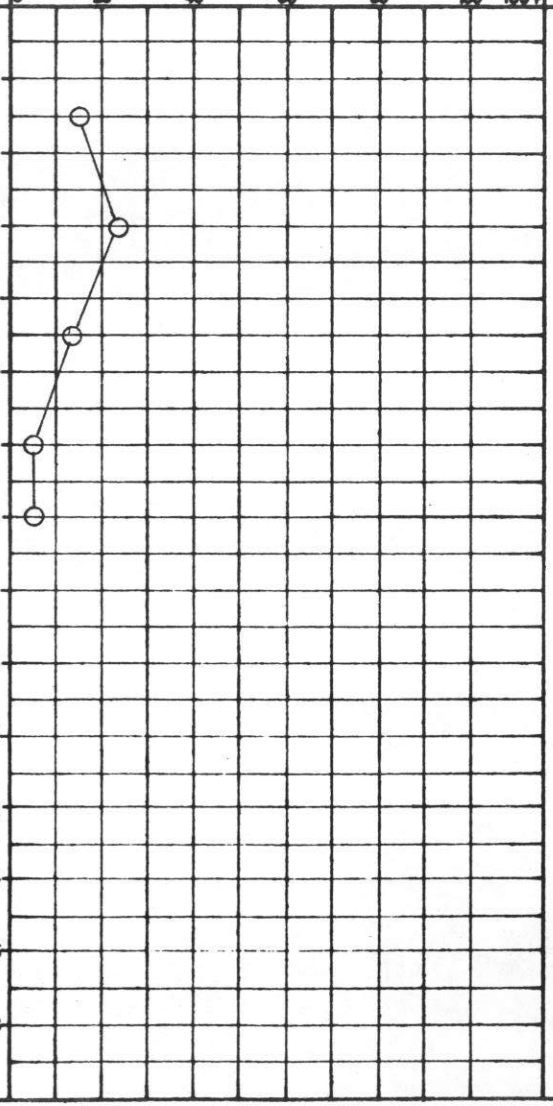
FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761 - 119	CHAINAGE. 1291 + 00	OFFSET. ℄
TECH. McINTOCH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce, Max. 4"	ELEV.

TEST HOLE 1026

MILE 748

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		MODERATE ICE
4						- SANDY		
6						- PEBBLES		Vc - Vr
8						LOW PLASTIC 7.5'		Vx
10						SHALE - SILTY	F	LOW ICE
12						SOFT - MED.		FROZEN
14								Nb 17 '
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

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					SAT.	
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: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761 - 117	CHAINAGE. 1282 + 00	OFFSET. ℄	TEST HOLE 1027
TECH. McINTOCH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 4"	ELEV.	MILE 748

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 ICE Vs						
4						SILT - ORGANIC CLAYEY 4'							WET	
6					Ci	CLAY - SILTY MED. PLASTIC		MODERATE ICE					WET	
8						SHALE FRAGEMENTS		Vc - Vr						
10						10.5'							DAMP	
12						SHALE - SILTY SOFT	F	LOW TO NIL ICE Vx Nb 17					DAMP	
14													DAMP	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761 - 117	CHAINAGE. 1273 + 00	OFFSET. D
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 4"	ELEV.

TEST HOLE 1028

MILE 748

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2						GRAVEL - SANDY		
					Gp	- SILTY 4'		LOW ICE
4								
						CLAY - SILTY		
6						- SANDY		Vx
					Cl	-GRAVELLY		
8						MED. PLASTIC 8'		
						SHALE - SILTY SOFT		
10							F	
12								FROZEN
14								Nb 17
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
					DAMP	
					MOIST	
					DAMP	
					DAMP	
					DAMP	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

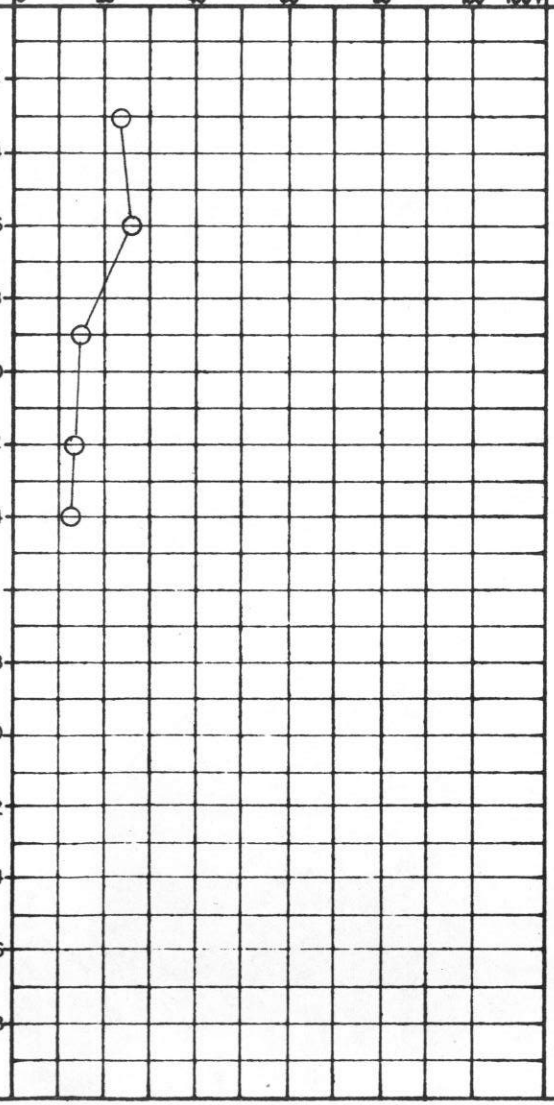
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761-117	CHAINAGE. 1262 + 00	OFFSET. ℄	TEST HOLE 1029
TECH. McINTOCH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max 4"	ELEV.	MILE 748

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'		MODERATE ICE
2						CLAY - SILTY		
4						- SANDY		Vc - Vr
6					Cl	- PEBBLES		
8					Ci	LOW - MED. PLASTIC		LOW ICE
10						11'	F	
12						SHALE - SILTY SOFT		Vx TO NIL ICE
14								Nb 17
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 %		
				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: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761	CHAINAGE. 1256 + 00	OFFSET. D	TEST HOLE 1030
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max 3"	ELEV.	MILE 748

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
4					Ci	CLAY - SILTY - SANDY - PEBBLES MED. PLASTIC 8'		Vc - Vr
6								
8						SHALE - SILTY SOFT	F	LOW ICE Vx TO NIL ICE Nb 17
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

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761 - 117	CHAINAGE. 1247 + 00	OFFSET. ℄		TEST HOLE 1031
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 3"	ELEV.		MILE 747

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 - SILTY		ICE
						- SANDY		Vs
4					Cl	- PEBBLES		
								MODERATE
6					Ci	LOW - MED. PLASTIC		AND
						SHALE FROGS		LOW
8								ICE
10						11'		
								Vc - Vr
12						SHALE - SILTY SOFT 13'		
								Vx
14					Ci	CLAY - SILTY SANDY SHALE FROGS 15"		
16						SHALE - SILTY SOFT		?
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
0 20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				SAT.	
				HOLE IN BAG	
				MOIST	
				DAMP	
				MOIST	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

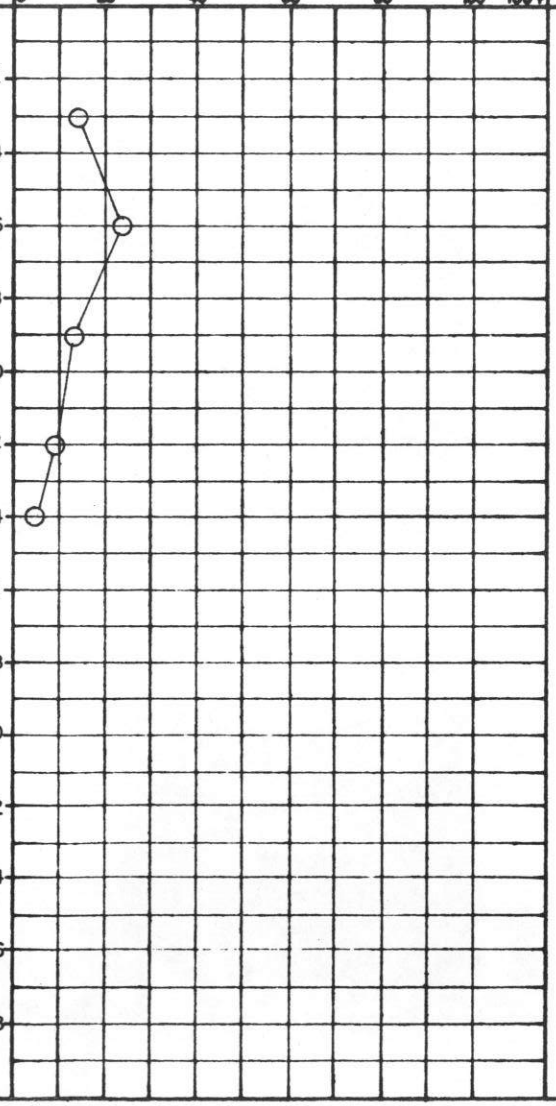
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761 - 117	CHAINAGE. 1238 + 00	OFFSET. D	TEST HOLE 1032
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 4"	ELEV.	MILE 747

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					Cl	CLAY - SILTY - SANDY - PEBBLES		
4					Ci	SHALE FRAGMENTS LOW - MED. PLASTIC 8'		LOW ICE Vx
6						SHALE - SILTY SOFT		FROZEN Nb 17
8								
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



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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761 - 117	CHAINAGE. 1231 + 00	OFFSET. Ⓒ	TEST HOLE 1033
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce & Birch 5"	ELEV.	MILE 747

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 - SILTY		LOW					MOIST	
4						- SANDY		ICE						
6						- PEBBLES		Vx					MOIST	
8					Ci	MED. PLASTIC								
10						SHALE FRAGS. 11'							DAMP	
12						SHALE - SILTY	F						DAMP	
14						SOFT		FROZEN					DAMP	
16								Nb 17						
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+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A.TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761 - 117	CHAINAGE. 1223 + 00	OFFSET. ℄
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1034

MILE 747

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'	F	MODERATE ICE
2					Cl	CLAY - SILTY - SANDY - PEBBLES 4'		Vc - Vr
4						SAND - CLAYEY SILTY		LOW ICE
6						SANDSTONE FRAGS		
8						POSSIBLE SANDSTONE		Vx
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 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	
				DAMP	
				DAMP	
				WET	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

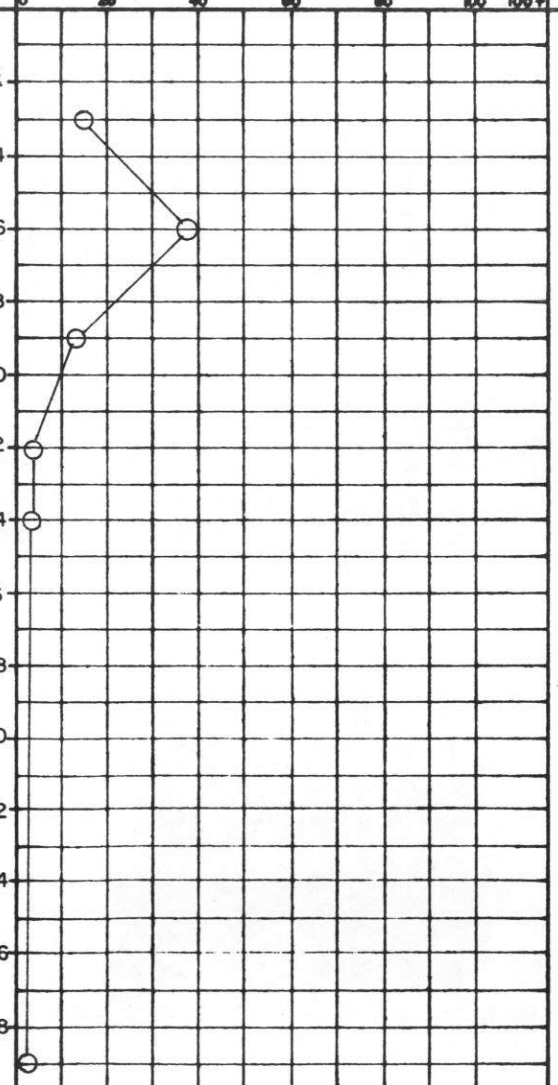
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761 - 115	CHAINAGE. 1214 + 00	OFFSET. D	TEST HOLE 1035
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 747

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		MODERATE ICE
4						- SANDY		
						- PEBBLES		
6					Cl	MED. PLASTIC		Vc - Vr
8								LOW ICE
10								Vx
						11' F		
12						SANDSTONE - SILTSTONE LIMESTONE		
14						HARD		FROZEN
16								Nbn
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					MOIST	
6					WET	
8					DAMP	
12					DAMP	
14					DAMP	
28					DAMP	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761 - 115	CHAINAGE. 1206 + 00	OFFSET. D	TEST HOLE 1036
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 747

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						
2						CLAY - SILTY		Vc - Vr					SAT.	
4						- SANDY								
6						PEBBLES							SAT.	
8					Cl	LOW - MED. PLASTIC								
10					Ci		F	LOW ICE					DAMP	
12													DAMP	
14						SHALE FRAGS.		Vx					DAMP	
16														
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

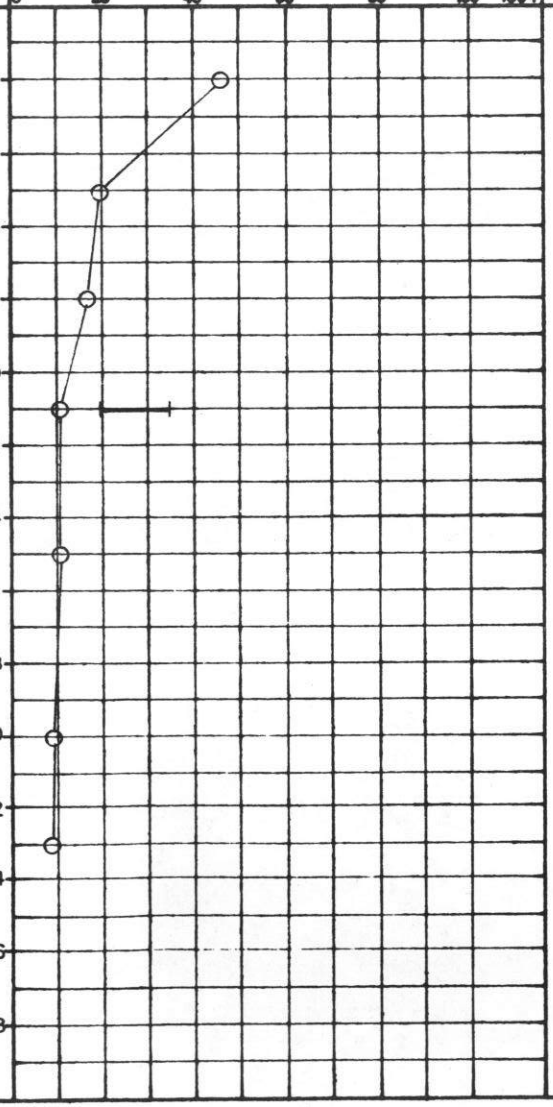
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2576+00	OFFSET.	TEST HOLE 1
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773

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
2						CLAY		
4						-Silty		Vs
6						Sandy		
8					CI	Pebbles	F	Vx
10						Med. plastic		Low Ice
12						— 11'		
14						SHALE		To
16						-Soft - firm		
18								Nil
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



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

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 14/3/74 | AIRPHOTO NO. | CHAINAGE. 2576+00 | OFFSET.

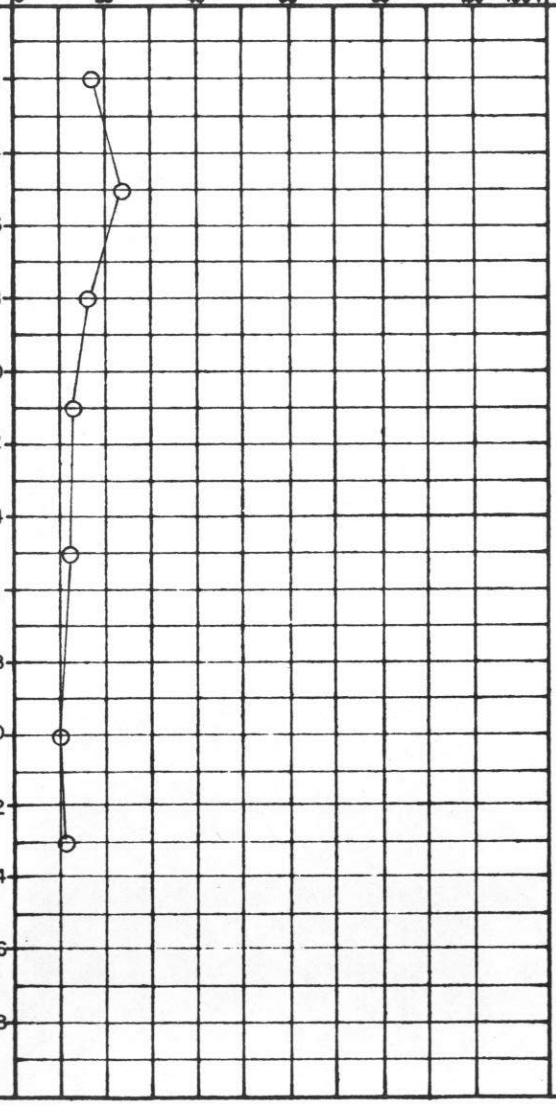
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE 773

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 Low-med. plastic	F	Moderate Ice
4								
6					CI	Pebbles		Vc - Vr
8						— 8.5'		
10						SHALE -Soft-firm		
12								Low
14								
16								Ice
18								
20								
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



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 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 14/3/74 | AIRPHOTO NO. | CHAINAGE. 2576+00 | OFFSET.

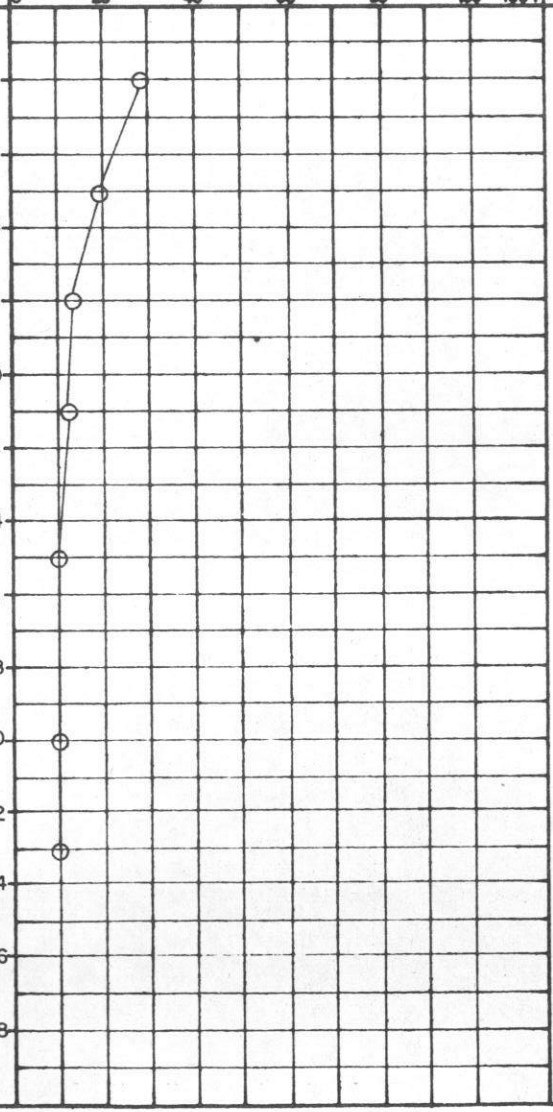
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE 773

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2'								Moderate & High Ice Vc-Vr-Vs
					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		
					CI		F	
14'								Low
						SHALE -Soft-med. hard		Ice
								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



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

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2576+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 773

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Moderate
						3'		
4						CLAY -Silty Sandy Pebbles		Ice
6					CI	Med. plastic		Vc - Vr
8						Shale fragments	F	
10								Low
						11'		
12						SHALE -Soft-med. hard		
14								
16								Ice
18								
20						Soft-hard		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	REMARKS
2					Moist	
4					Moist	
6						
8					Damp	
10						
12					Damp	
14						
16					Damp	
18						
20					Damp	
22						
24					Damp	
26						
28						

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2576+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE 773

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Moderate
						2'		
4						CLAY -Silty Sandy Pebbles		Ice
6					CI	Med. plastic		Vc - Vr
8						8'		
10						SHALE -Soft-med. hard	F	Vx Low
12								Ice
14								
16								To
18								Nil
20								Nbn
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	180+
2	40	60	80	100	120	140	160	180+		

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

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2576+00	OFFSET.	TEST HOLE 6
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773

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		
4						-Silty Sandy Pebbles Med. plastic		Low
6					CI			
8								
10						Shale fragments Soft	F	Ice
12								
14								
16								Vx
18								
20						— 20'		
22						SHALE -Soft-med. hard		
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	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
2					Moist	
4					Moist	
6						
8					Damp	
10					Damp	
12						
14					Damp	
16						
18						
20					Damp	
22					Damp	
24						
26						
28						

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS	DATE DRILLED.	AIRPHOTO NO.	CHAINAGE. 2576 + 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 1.5'							DAMP
2					Ci	CLAY - SILTY SANDY PEBBLES MED. PLASTIC		Vx					DAMP
4								LOW					
6													DAMP
8						8'	F						
10						SHALE - SOFT - MED. HARD		ICE					DAMP
12								TO					
14													DAMP
16								NIL					
18													
20						SOFT - HARD		Nbη					DAMP
22													DAMP
24													
26													
28													

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2576 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.5'		MODERATE ICE
2					Ci	CLAY - SILTY SANDY PEBBLES MED. PLASTIC	F	Vc - Vr
4								
6								
8								Vx
10						11'		LOW
12						SILTY CLAY - SHALE SOFT SHALE - SOFT		TO
14								NIL
16								ICE
18								
20								Nbn
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+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				SAT.	
				MOIST	
				DAMP	
				DAMP	
				DAMP	
				DAMP	
				DAMP	

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS | DATE DRILLED. 14/3/74 | AIRPHOTO NO. | CHAINAGE. 2576 + 00 | OFFSET.

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

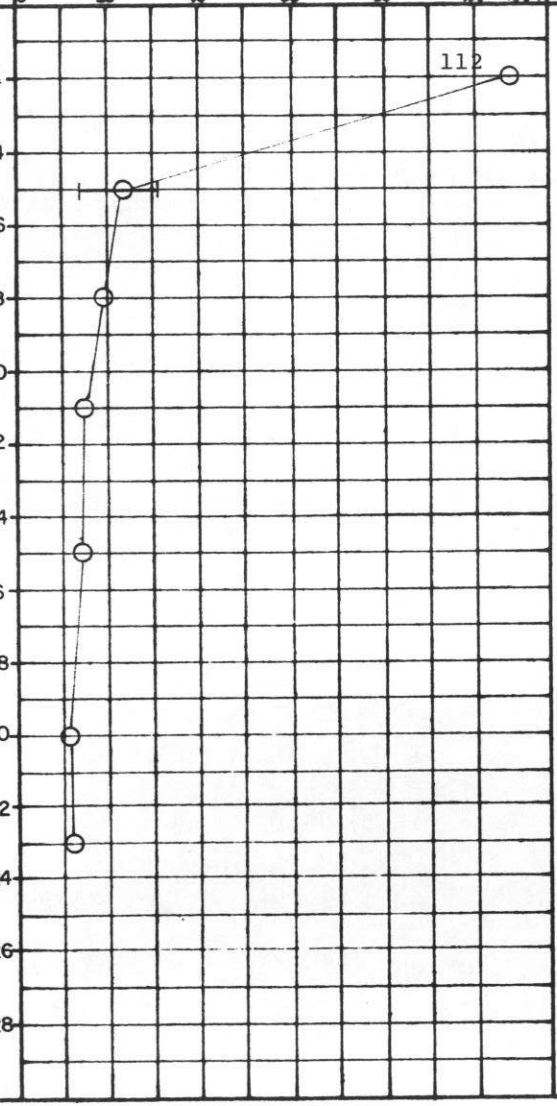
TEST HOLE 9

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
3.5'								
4					Ci	CLAY - SILTY SANDY PEBBLES MED. PLASTIC	F	MODERATE ICE Vc - Vr
10								LOW ICE Vx
24						SHALE FRAGMENTS		

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
				DAMP
				DAMP
				DAMP

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2576 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 10

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		HIGH ICE					FREE WATER	
2						$2\frac{1}{2}$'		Vs						
4						CLAY - SILTY SANDY PEBBLES MED. PLASTIC							MOIST	
6														
8						8'	F						DAMP	
10						SHALE - SILTY SOFT - MED. HARD		LOW ICE					DAMP	
12														
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
40 0 60 20 80 40 100 60 120 80 140 100 100+

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2576 + 00	OFFSET.
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 11

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					WET
2–4								Vc – Vr					
4–6						CLAY – SANDY SILTY PEBBLES MED. PLASTIC							MOIST
6–8					Ci		F	LOW					DAMP
8–10													
10–12								ICE					DAMP
12–14													
14–16								Vx					DAMP
16–18													
18–20													DAMP
20–22													
22–24													DAMP
24–26													
26–28													

DS-14-5-74 b

BORROW PIT 150

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS | DATE DRILLED. 14/3/74 | AIRPHOTO NO. | CHAINAGE. 2576 + 00 | OFFSET.

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

TEST HOLE 12

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 1.5'		HIGH ICE Vs					FREE WATER
2					Cl	CLAY - SILTY SANDY PEBBLES LOW - MED. PLASTIC							
4													MOIST
6													
8								LOW					DAMP
10					Ci		F						DAMP
12								ICE					
14													DAMP
16								Vx					
18													
20													DAMP
22													DAMP
24													
26													
28													

BOTTOM OF HOLE - 25'

DS-14-5-74 b

BORROW PIT 151

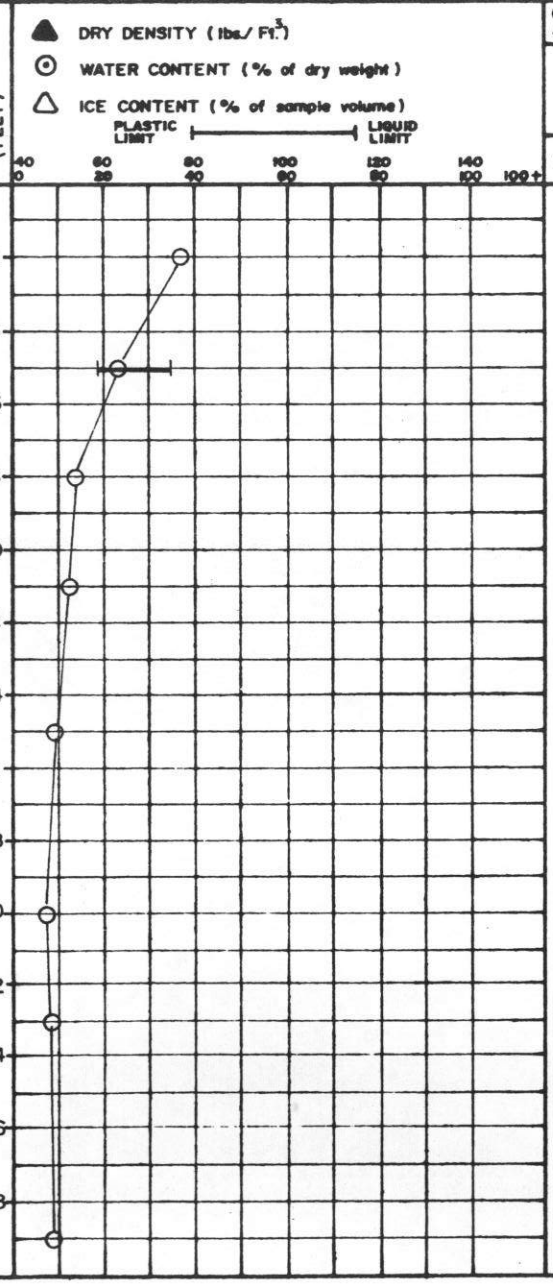
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.	TEST HOLE 1
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-TAMARACK	ELEV.	MILE 771

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 Vs
4						CLAY		To
						-Sandy		Moderate
						Silty		Ice
6						Pebbles		Vc - Vr
					CI	Sandstone fragments		
8						Med. plastic — 8'		Vx
						SHALE-SANDSTONE-		
10						SILTSTONE	F	Low
						-Soft		
12								Ice
14								
						SHALE		
16						-Soft med. hard		
18								Frozen
20								
								Nbn
22								
24						Soft		
26								
28						Soft-med. hard		
						30'		



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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.	TEST HOLE 2
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-TAMARACK	ELEV.	MILE 771

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 — 1.3'							Moist	
4					CL CI	CLAY -Sandy Silty Pebbles								
6						— 5' SHALE -Soft		Low					Moist	
8								Vx					Damp	
10						SHALE & SILTSTONE	F						Damp	
12						SHALE -Soft		Ice						
14													Humid	
16								Frozen						
18														
20								Nbn					Humid	
22						Soft-hard							Humid	
24														
26														
28						Soft with Sandstone								
						30'							Humid	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.	TEST HOLE 3
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - TAMARACK	ELEV.	MILE 771

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'		Moderate Ice					Moist	
2						CLAY -Sandy-pebbles Silty								
4					CL	Siltstone & Sandstone fragments Soft							Wet	
6					CI	Low-med. plastic		Vc - Vr						
8						— 8'							Moist	
10						SHALE-SANDSTONE -Broken down soft	F	Low Ice					Damp	
12														
14													Damp	
16						SHALE -Soft		Vx						
18								Frozen						
20						Soft-med. hard		Nbn					Humid	
22													Humid	
24						Med. hard - hard								
26														
28						Soft-med. hard 30'							Humid	

DS-14-5-74 b

BOTTOM OF HOLE - 30'

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.	TEST HOLE 4
TECH. McINTOSH	RIG. MAYHEW-#1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - TAMARACK	ELEV.	MILE 771

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					CL CI	CLAY -Sandy Silty Sandstone fragments — 5'		Vx					Moist	
4														
6						SHALE -Soft SANDSTONE -Hard		Low					Moist	
8							F						Damp	
10						SHALE-SILTSTONE-SANDSTONE -Soft Layered		Ice					Humid	
12						SHALE -Soft-med hard		Frozen						
14													Humid	
16						Med. hard - hard		Nbn						
18														
20						Med. hard							Humid	
22													Humid	
24														
26														
28													Humid	
						30'								

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.	TEST HOLE 5
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 3"	ELEV.	MILE 771

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 .9'								
2						CLAY -Sandy Silty Pebbles Med. plastic		Vx					Moist	
4														
6					CI			Low					Moist	
8														
10						CLAY -Siltstone hard Shale soft mixture	F	Ice					Damp	
12														
14						14'								
16						SHALE -Soft							Humid	
18								Frozen						
20								Nbn					Humid	
22														
24						Soft-med. hard							Humid	
26														
28														
						30'							Humid	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE 6" - TAMARACK	ELEV.

TEST HOLE 6

MILE 771

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
2					Pt	PEAT — 1.3'		Moderate Ice Vc - Vr	2					Wet	
4						CLAY -Sandy Silty Med. plastic Pebbles			4					Moist	
6					CI				6						
8							F		8					Moist	
10									10						
12						— 11' SHALE -Soft		Vx Low Ice & Nil Nbn	12					Damp	
14									14						
16									16					Humid	
18									18						
20									20					Damp	
22									22						
24									24					Damp	
26									26						
28						30'			28					Humid	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 14/3/74 | AIRPHOTO NO. | CHAINAGE. 2444+00 | OFFSET.

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

TEST HOLE 7

MILE 771

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								
1.1'														
2						CLAY -Sandy Silty Pebbles Med. plastic		High Ice Vs					Sat.	
4														
6					CI	Sandstone fragments Soft to 10'							Free Water	
8							F	Low Ice					Moist	
10								Vx						
11'													Damp	
12						SHALE -Soft		Nil						
14														
16								Ice					Humid	
18								Frozen						
20													Humid	
22								Nbn						
24						Soft-med. hard							Humid	
26														
28													Humid	
30'														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE-TAMARACK 5"	ELEV.

TEST HOLE 8

MILE 771

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate
1.7'								
2						CLAY -Sandy Silty Silt & Sandstone fragments		Ice
4								
6					CI	Med. plastic		Vc - Vr
8								Vx
8'						SHALE -Soft		Low Ice
10								
12							F	Nil
14						Soft-med. hard		Ice
16								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)	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
0					
2					Sat.
4					
6					Moist
8					Damp
10					
12					Damp
14					
16					Humid
18					
20					Humid
22					
24					Humid
26					
28					
30'					Humid

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

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. 2444+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE & TAMARACK 4"	ELEV.

TEST HOLE 9

MILE 771

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 — 1.4'		Moderate Ice					Moist	
4					CL CI	CLAY -Sandy Silty Pebbles Low-med. plastic Sandstone fragments							Wet	
6								Vc - Vr						
8													Wet	
10						— 11'		Vx Low Ice					Damp	
12						SHALE-SILT & SANDSTONE -Soft	F							
14													Damp	
16														
18								Frozen						
20						SHALE -Soft							Damp	
22								Nbn						
24						Soft-med. hard							Humid	
26														
28						Soft-hard 30'							Humid	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 14/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 10

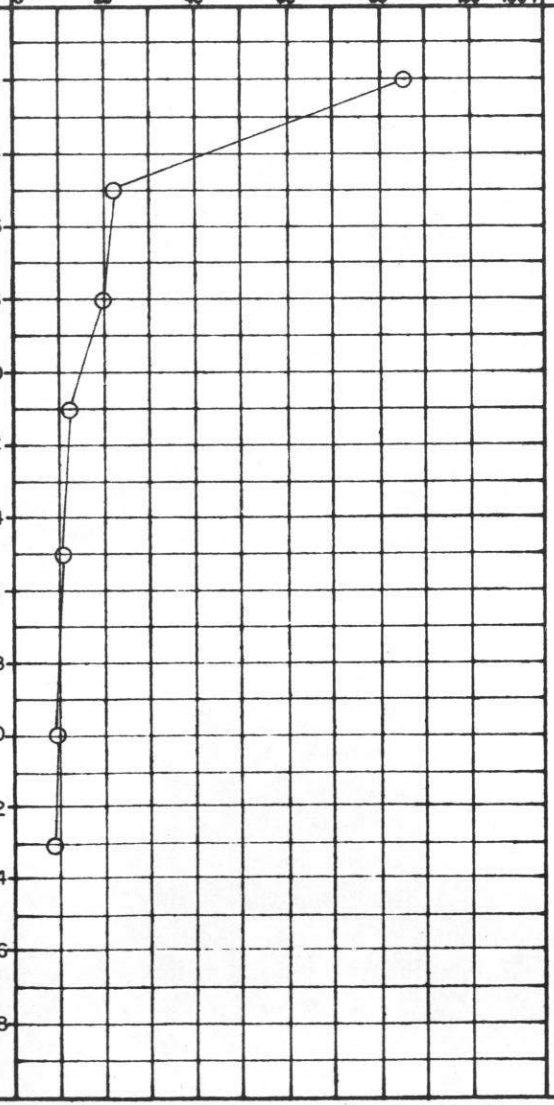
MILE 771

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						CLAY -Silty Sandy Pebbles Med. plastic		Vs
4								Moderate Ice
6					CI			
8						Shale & Sandstone fragments		Vc - Vr
10								
10'								
10						SHALE -Silty Soft-med. hard Siltstone Fragments	F	Low Ice
14								
16						SHALE -Soft-med. hard		Vx
18								
20								
22								
24								
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

CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT	REMARKS
Free Water	
Moist	
Damp	
Damp	
Damp	
Damp	
Damp	

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

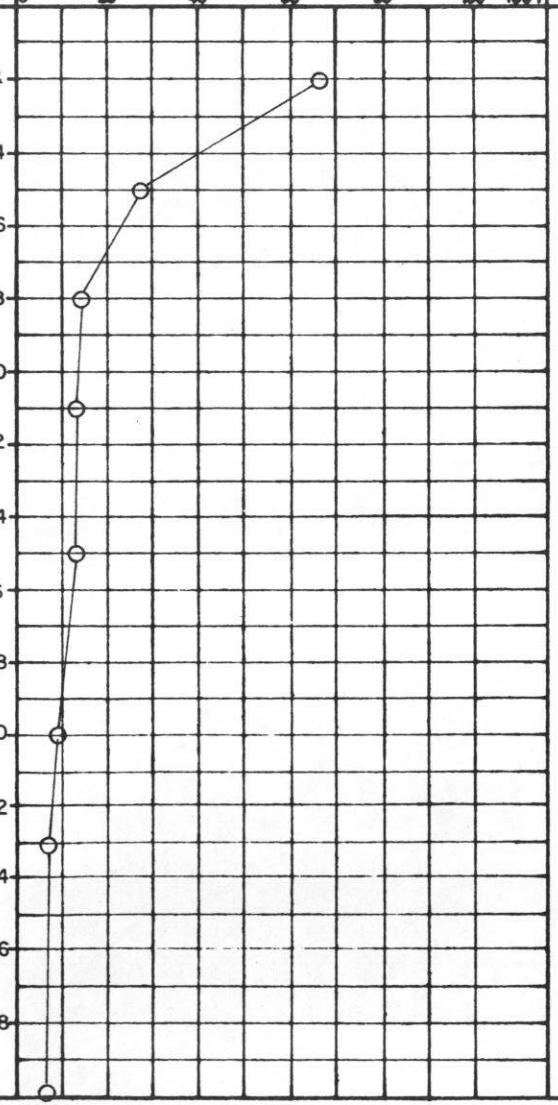
FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.	
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 4"	ELEV.	

TEST HOLE 11

MILE 771

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
0.9'								
2						CLAY -Sandy Silty		Vs
4					CL	Low-med. plastic		
								Moderate Ice
6					CI			Vc - Vr
8'								
8						SHALE-SILT & SANDSTONE -Soft	F	
10						SHALE -Soft		
12								Low Ice
14						Soft-med. hard Sandstone - hard		
16								Vx
18								
20								Frozen
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



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

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

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. 2444+00	OFFSET.	TEST HOLE 12
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 4"	ELEV.	MILE 771

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 1.3'		High
4					CL	CLAY -Silty Sandy Gravelly Low-med. plastic Sandstone fragments		To Moderate Ice
6					CI			Vs-Vc-Vr
8						Silty 70% Siltstone & Sandstone		Vx
10						— 11'	F	
12						SHALE -Soft		Low
14								Ice
16						Sandstone Soft-med. hard		
18								Frozen
20						SHALE -Med. hard		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

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					Sat.	
4					Wet	
6						
8					Moist	
10						
12					Damp	
14						
16					Damp	
18						
20					Humid	
22						
24					Humid	
26						
28					Humid	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

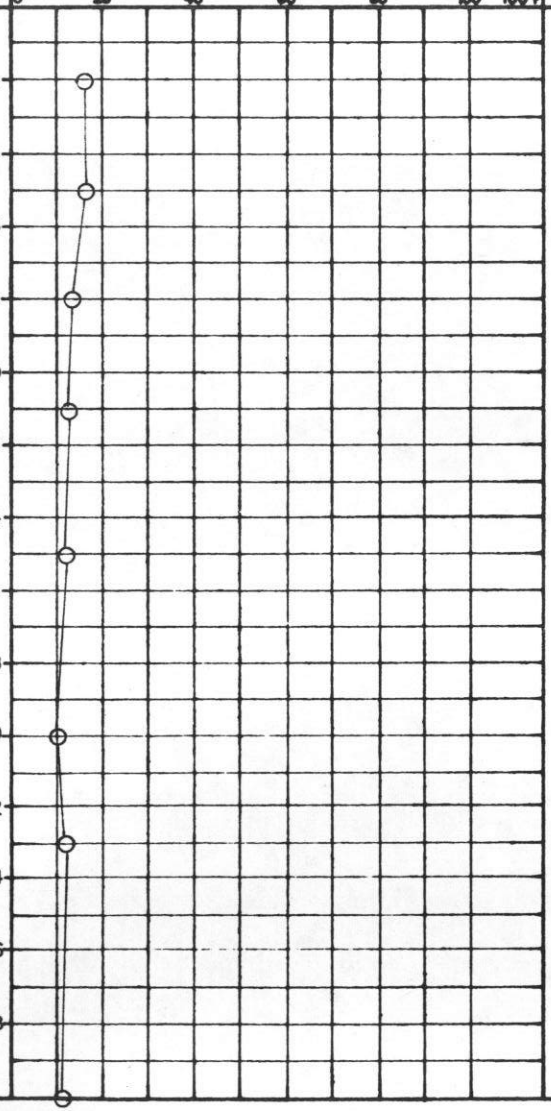
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.	TEST HOLE 13
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 5"	ELEV.	MILE 771

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						CLAY -Sandy Silty Pebbles Med. plastic Sandstone fragments		
4								
6								Low
8					CI			
10							F	Ice
12								
14						CLAY-Silty & SANDSTONE MIXTURE		
16								Vx
18								
20								
22								
24						70% Sandstone-hard & Shale soft		
						25'		
26						SHALE -Soft Sandstone chips		
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					Damp	
10					Damp	
12						
14						
16					Damp	
18						
20					Damp	
22						
24					Damp	
26						
28						
					Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 14/3/74 | AIRPHOTO NO. | CHAINAGE. 2444+00 | OFFSET.

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

TEST HOLE 14

MILE 771

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 -Silty Sandy Pebbles Med. plastic		Low
4								
6					CI		F	
8								
10						Sandstone fragments 50-60%		Ice
12								
14						— 13.5'		
16						SHALE & SANDSTONE -Soft		Vx
18								
20								
22								
24						SHALE -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

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	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

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. 2444+00	OFFSET.	TEST HOLE 15
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE - TAMARACK 4"	ELEV.	MILE 771

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		Low Vx To Moderate Ice Vc - Vr
2						CLAY -Sandy Silty Pebbles Low-med. plastic		
4								
6					CL	Sandstone chips 50%		
8					CI		F	
10								
12						Pebbles & Sandstone chips		Low
14						— 15'		Ice
16						SHALE -Soft-hard Sandstone chips		
18								Vx
20								
22						SHALE -Soft SANDSTONE -Hard		
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	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Sat.	
				Moist	
				Moist	
				Damp	
				Moist	
				Moist	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

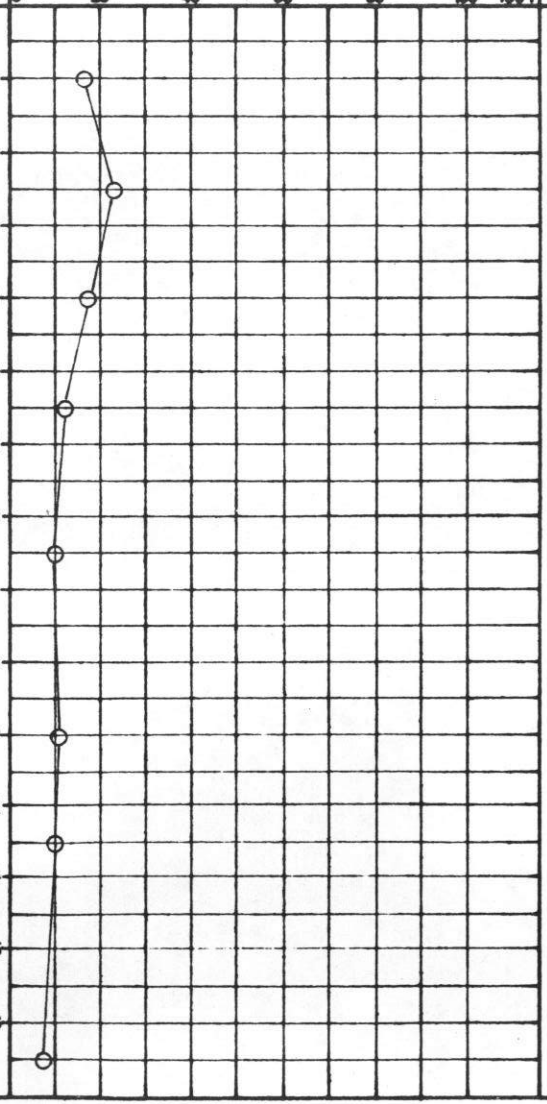
FIELD ENG. N. BURGESS	DATE DRILLED. 15/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 6"	ELEV.

TEST HOLE 16

MILE 771

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .8'	F	Moderate
2						CLAY -Silty Sandy Pebbles Med. plastic Sandstone chips		Ice
4								
6					CI			Vc - Vr
8								
10						— 11'		Low
12						SHALE -Soft Sandstone		Ice
14								
16						SHALE -Soft		Vx
18								
20								
22								
24						Med. hard - hard		
26								
28						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
2					Moist
6					Wet
8					Moist
12					Damp
16					Damp
20					Damp
24					Damp
28					Humid

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.

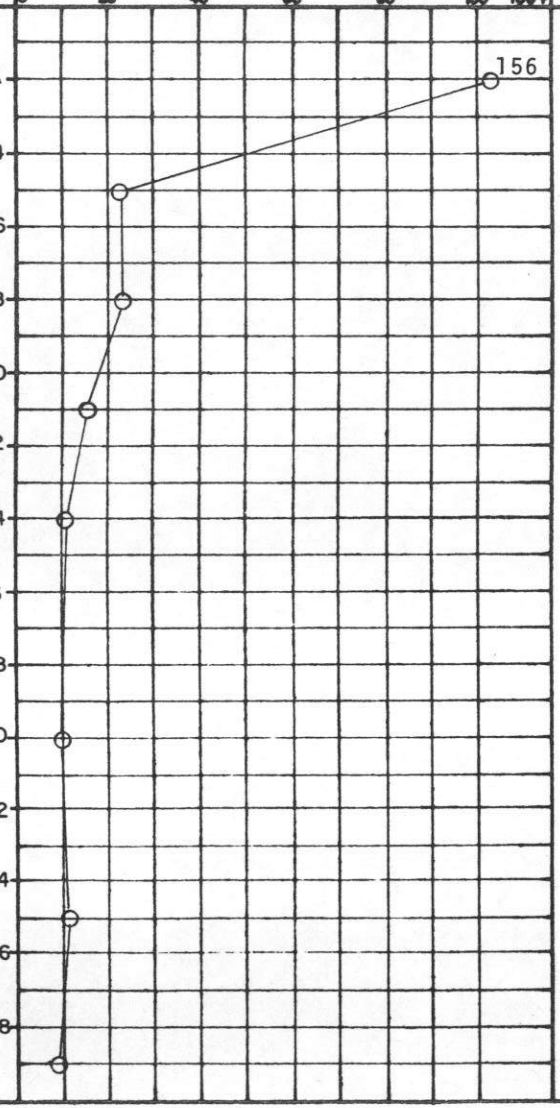
TEST HOLE 17

MILE 771

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Vs
								High
								Ice
						3'		
						CLAY		
						-Sandy		
						Silty		
						Pebbles		
					CI	Med. plastic	F	Moderate
								Ice
								Vc - Vr
						Shale fragments		
						12'		
						SHALE		
						-Soft		Low
								Ice
								Vx
						Soft-med. hard		
						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					Free Water
6					Wet
8					Moist
12					Damp
14					Humid
20					Damp
26					Damp
28					Damp

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 151

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

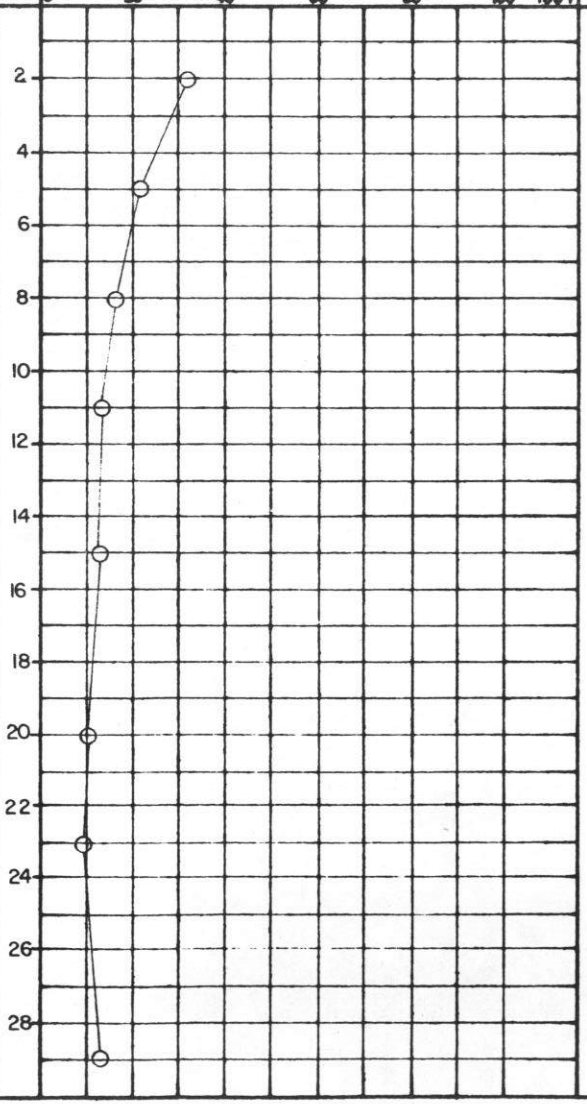
FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2444+00	OFFSET.	
TECH. PRONYCH	RIG. MAYHEW - #1	SURFACE DRAINAGE. LEVEL	VEGETATION. SPRUCE	ELEV.	

TEST HOLE 18

MILE 771

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		To
4						-Sandy		Moderate
6						Silty		Ice
8						Pebbles		Vc - Vr
10					CI	Med. plastic	F	
12								Low
14								Ice
16						— 15'		
18						SHALE		
20						-Soft		Vx
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
2					Sat.
4					Wet
8					Moist
10					Damp
14					Damp
20					Damp
22					Damp
28					Damp

REMARKS

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

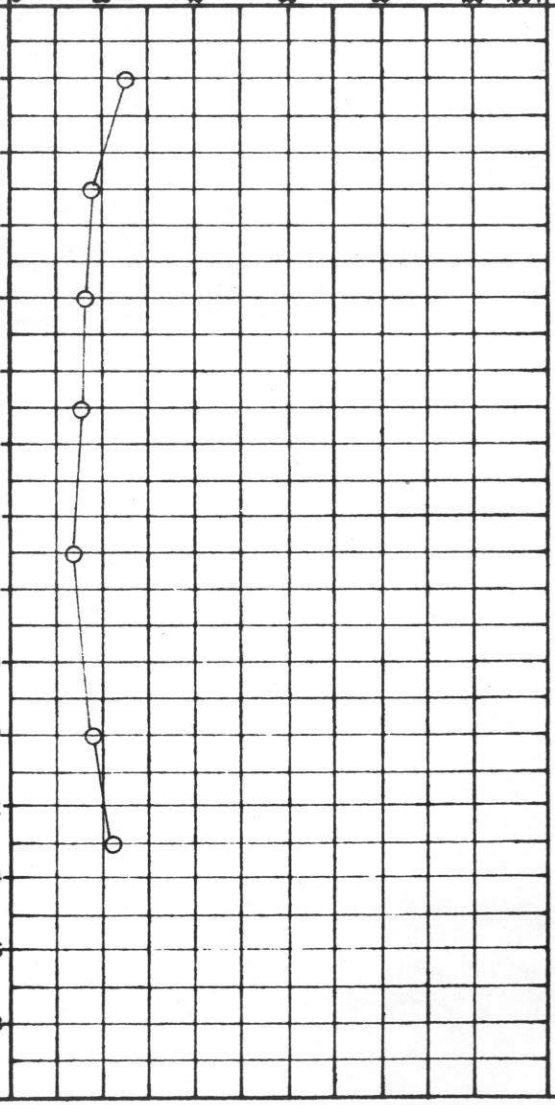
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 1
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 4"		
2						CLAY		Moderate
4						-Sandy		
						Silty		
						Pebbles		
					CL	Low-med. plastic		&
6								
					CI			Low
8								Ice
10							F	
						Shale fragments		
12								
14								
16								Vc - Vr
18								
20						— 20'		Vx
						SAND		
22						-Silty		
						Sandstone ?		
						Clayey		
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 %		
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2604+00 | OFFSET.

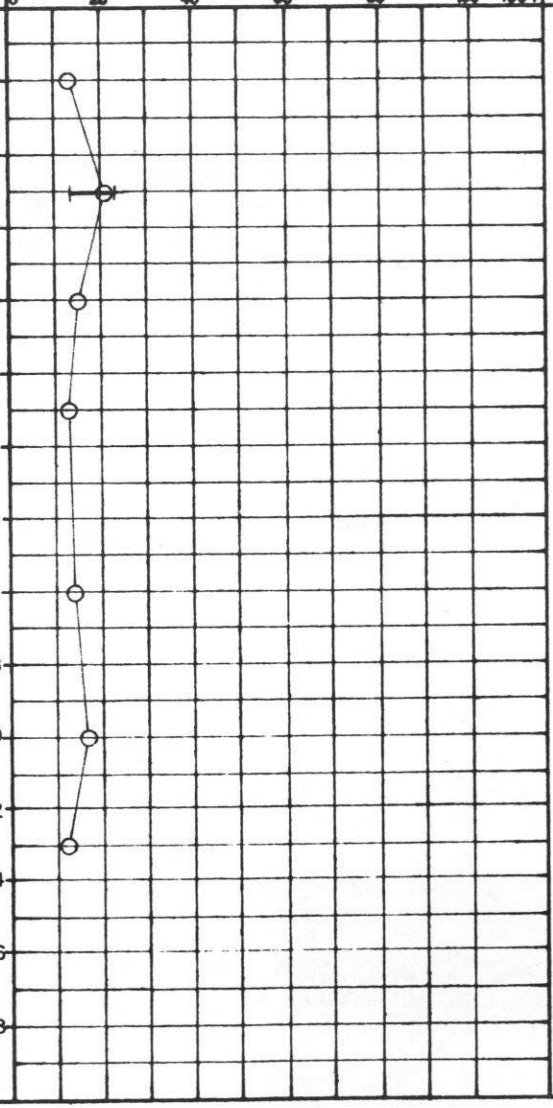
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE 773.5

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					CL	Low-med. plastic		Low
6								
8							F	Ice
10					CI			
						Boulder chips		
12								
14								
								Vx
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



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

REMARKS

DS-14-5-74 b

BORROW PIT 152

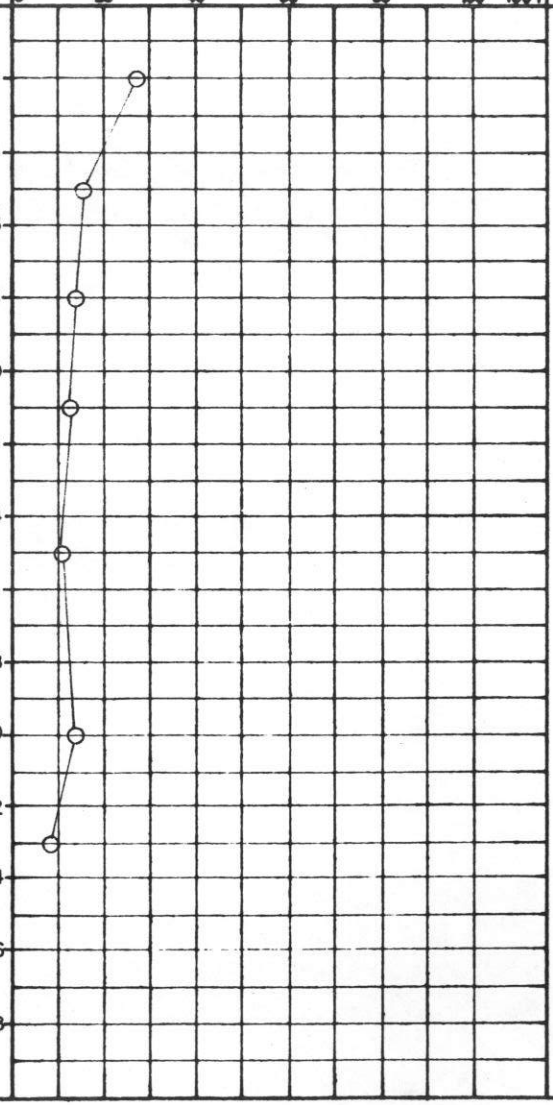
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 3
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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'		
4						CLAY -Silty Sandy Pebbles		Vs
6					CL	Low-med. plastic		
8					CI		F	Low
10								
12								Ice
14						14'		
16						SHALE -Soft SANDSTONE -Hard		Vx
18								
20						SHALE -Soft		
22								
24								
						25'		
26						BOTTOM OF HOLE - 25'		
28								



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

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 4
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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						CLAY		Ice
4						-Silty Pebbles Med. plastic Silty sandy		Vc - Vr
6					CI			
8						Boulder chips	F	
10								Low
12								
14								
16								Ice
18								
20						— 20'		Vx
22						SHALE -Soft		
24								
26						— 25' 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
0 20 40 60 80 100 100+

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

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE 773.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		High Ice
2						CLAY -Sandy Silty Pebbles Low-med. plastic		Vs
4								
6					CL			
8					CI		F	
10								Low Ice
12								
14						— 14½'		
16						SHALE -Soft SANDSTONE -Med. hard		
18								
20								Vx
22						SHALE -Soft		
24								
26						SHALE-SANDSTONE — 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
40 60 80 100 120 140 100+
0 20 40 60 80 100

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

REMARKS

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 6

MILE 773.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Moderate
						2.5'		
4						CLAY -Silty sandy Pebbles Sandstone chips		Ice
6					CL	Low plastic		Vc - Vr
8						8'		
10						SHALE -Soft Broken down	F	
12								Low
14						Soft		
16								Ice
18								
20						Soft-med. hard		Vx
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	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
					Wet	
					Wet	
					Moist	
					Moist	
					Moist	
					Damp	
					Damp	

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 7
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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+

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
2					Pt	PEAT		Moderate Ice	2					Wet	
						2'		Vc - Vr							
4					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		Vx	4					Moist	
6					CI				6						
8								Low	8					Moist	
						8.5'									
10						SHALE -Soft			10					Damp	
12							F	Ice	12						
14									14						
														Damp	
16								Frozen	16						
18									18						
20								Nbn	20					Damp	
22						Soft-med. hard			22					Damp	
24									24						
						25'									
26						BOTTOM OF HOLE - 25'			26						
28									28						

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 8
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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'	F	Moderate Ice Vc - Vr					Wet	
2					CL	CLAY -Silty Sandy Low-med. plastic							Wet	
4					CI	Pebbles								
6													Moist	
8						— 8.5'								
10						SHALE -Broken down Soft		Low					Damp	
12														
14						Soft-med. hard Sandstone		Ice					Damp	
16														
18														
20													Damp	
22						SHALE -Soft		Vx					Damp	
24						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

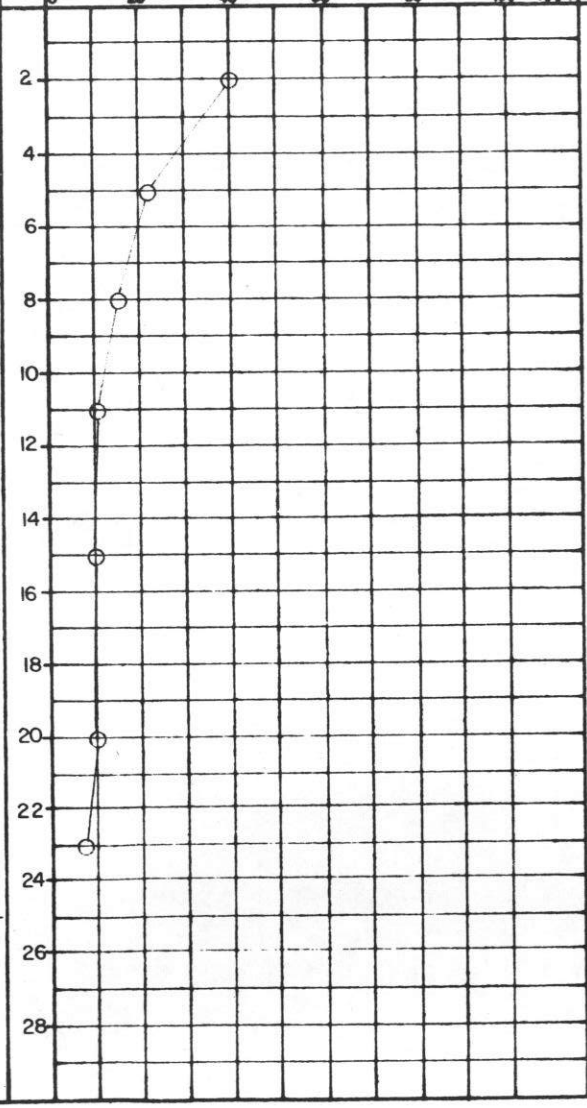
TEST HOLE 9

MILE 773.5

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
0					Pt	PEAT —.5'		High Ice	Sat.
2					CL	CLAY -Sandy Silty Organic to 4' Pebbles Low-med. plastic		Vs	Moist
6					CI				Moist
8						—8.5'	F		
10						SHALE -Soft		Low	Moist
12								Ice	
14									Damp
16									
18									
20								Vx	Damp
22									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



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

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 10
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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 -Sandy Silty Pebbles Low-med. plastic							Moist	
4														
6					CL								Moist	
8								Low						
10					CI		F						Moist	
12								Ice						
14													Moist	
16						Sandstone chips		Vx						
18													Damp	
20														
20'													Damp	
22						SHALE-SANDSTONE -Soft								
24													Moist	
25'														
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 11

MILE 773.5

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'		High Ice					Free Water
2					CL	CLAY -Sandy Silty Pebbles Sand- & Siltstone chips		Vs					Moist
4													
6					CI	— 7'							
8						SHALE -Soft		Low					Damp
10						SANDSTONE -Soft	F						Damp
12								Vx					
14						Soft-med. hard							Damp
16								Ice					
18								Frozen					
20								Nbn					Humid
22													Humid
24						— 25'							
26						BOTTOM OF HOLE - 25'							
28													

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2604+00 | OFFSET.

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

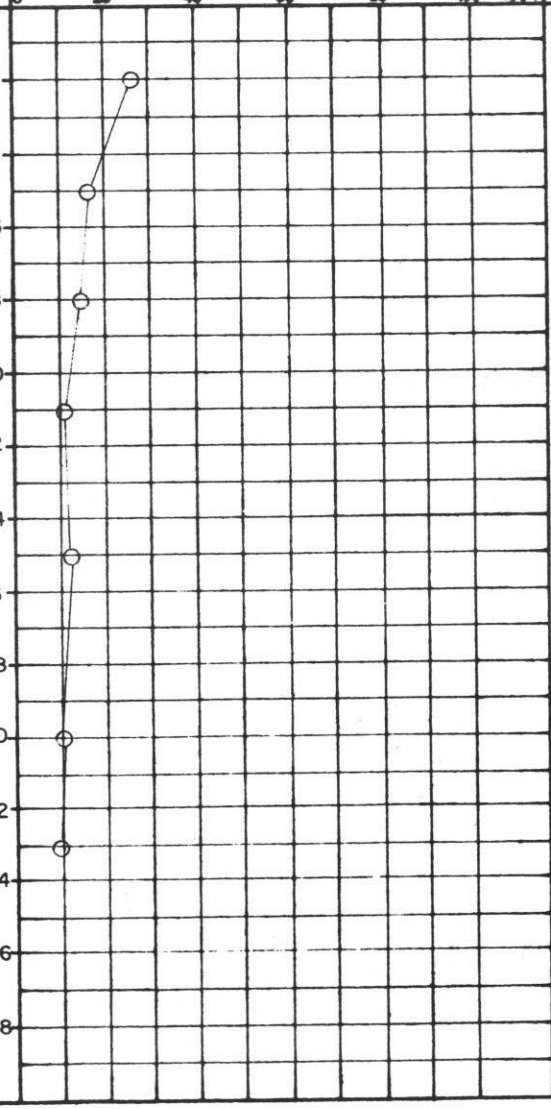
TEST HOLE 12

MILE 773.5

REMARKS

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					CL	CLAY -Silty Sandy Pebbles		Vc - Vr
4					CI	Low-med. plastic		Low
6						— 6'		
8						SHALE-SANDSTONE -Soft	F	Ice
10						Soft-med. hard		
12								
14								Vx
16								
18								
20						SHALE -Soft-med. hard		
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	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

DEPTH (FEET)	RELATIVE THAWED MOISTURE CONTENT
2	Wet
4	Moist
8	Moist
10	Damp
14	Damp
20	Damp
22	Damp

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

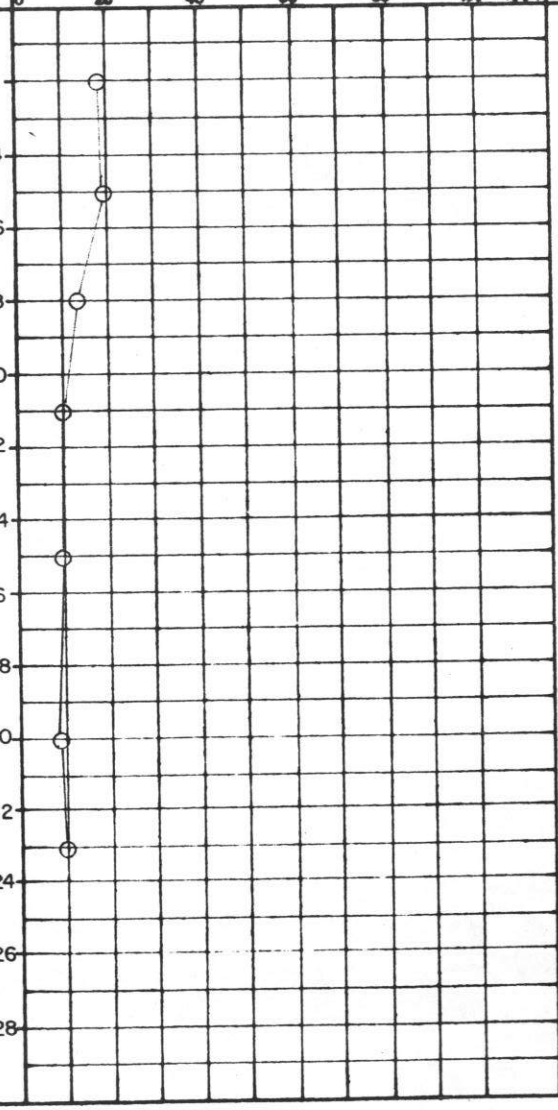
FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 13

MILE 773.5

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
2						CLAY		Ice
4					CL	-Sandy Silty Pebbles		
6					CI	Low-med. plastic		Vc - Vr
8						— 8'	F	
10						SHALE-SANDSTONE -Soft-med. hard		Low
12								
14								Ice
16								
18								
20								Vx
22						SHALE -Soft-hard		
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					Moist	
2					Moist	
4						
6					Damp	
8						
10					Damp	
12						
14					Damp	
16						
18						
20					Damp	
22					Damp	
24						
26						
28						

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2604+00 | OFFSET.

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

TEST HOLE 14

MILE 773.5

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'		Moderate					
2					CL	CLAY -Sandy Silty		Ice					Moist
4					CI	Low - med. plastic		Vc - Vr					Moist
6						— 6'							
8						SHALE-SILTSTONE-SANDSTONE -Soft	F						Moist
10													Damp
12								Low					
14													Damp
16								Ice					
18													
20								Vx					Damp
22						SHALE -Soft-med. hard							Damp
24													
25						— 25'							
26						BOTTOM OF HOLE - 25'							
28													

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 15

MILE 773.5

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 — 1.5'		Moderate					Moist
2					CL	CLAY -Silty Sandy		Ice					
4						— 5'							Wet / Sat.
6					GC	GRAVEL -Clayey Sandy		Vc - Vr					
8						— 8'	F						Moist
10					CL	CLAY-Sandy silty Pebbles Shale fragments — 10½'		Ice					Damp
12						SHALE-SILTSTONE-SANDSTONE		Low					
14													Damp
16						SHALE -Soft		Vx					
18								To					
20						Soft-med. hard		Nil					Damp
22													Damp
24								Nbn					
25						— 25'							
26						BOTTOM OF HOLE - 25'							
28													

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

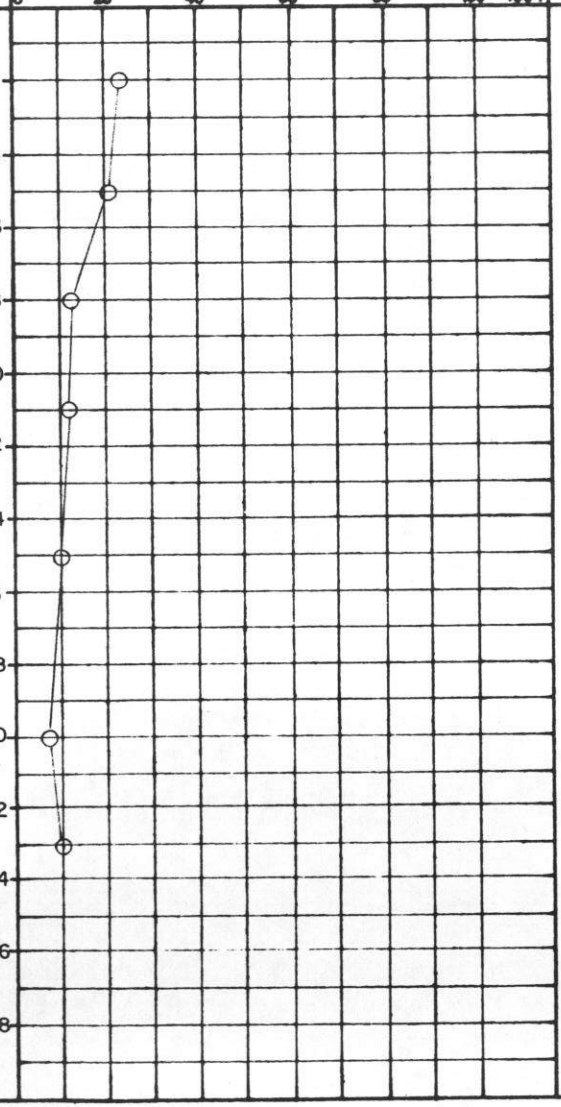
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 16
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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
2					CL	CLAY -Silty Sandy Low plastic Shale fragments Soft		Ice Vc - Vr
8						— 8'	F	
10						SHALE -Soft SILTSTONE-SANDSTONE -Hard		Low
16						SHALE -Soft-med. hard		Ice Vx
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



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

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

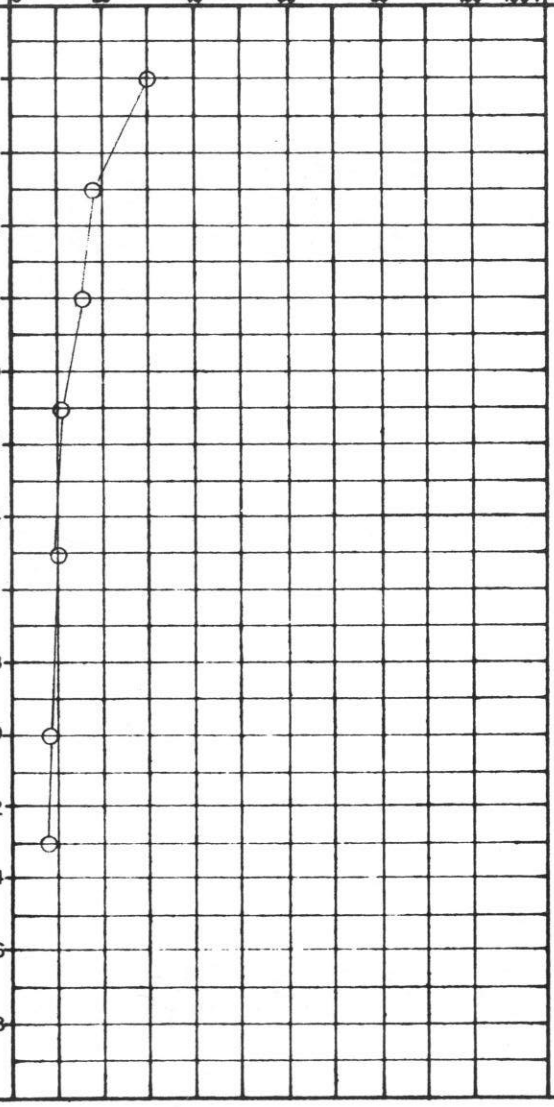
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 17
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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								
4					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Ice
6					CI			Vc - Vr
8							F	
10						— 10.5'		
12						SHALE-SILTSTONE-SANDSTONE -Soft		Low
14								Vx
16						Soft-med. hard		Ice
18								To
20						SHALE -Soft		Nil
22								Ice
24						Soft-med. hard — 25'		Nbn
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 %		
				Sat.	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 18
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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 -Sandy Silty Pebbles Low-med. plastic		Vc - Vr
4								
6					CL			Vx
8					CI		F	Low
10								Ice
12								To
14						Shale fragments Soft — 16'		
16								Nil
18						SHALE & SANDSTONE -Soft		
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+

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

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

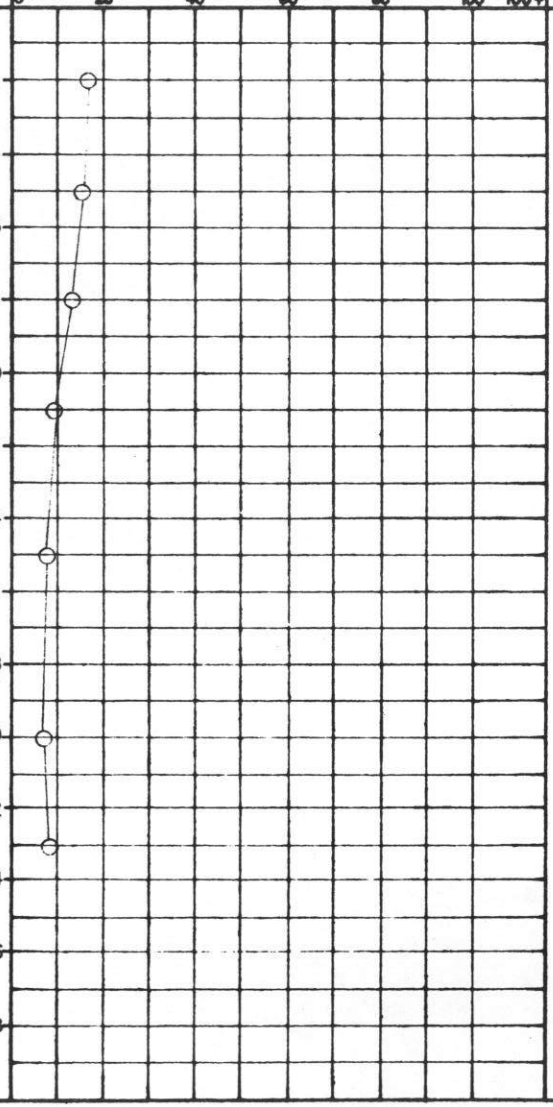
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 19
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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		Vx
4					CL			
6					CI	Siltstone-Sandstone fragments Low-med. plastic		Low
8						— 8½'		
10						SHALE -Soft	F	Ice
12						SANDSTONE -Hard		
14								Frozen
16						SHALE -Soft		Nbn
18								
20								
22								
24						Soft-med. hard		
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 %		
				Moist	
				Moist	
				Damp	
				Damp	
				Humid	
				Humid	
				Humid	

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2604+00 | OFFSET.

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

TEST HOLE 20

MILE 773.5

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		Moderate
						-Silty		Ice
						Sandy		
4						Pebbles		
						Low-med. plastic		Vc - Vr
6								
					CL			
8						Boulder chips @ 8'	F	
10								
						Sandstone chips		
12								
					CI			
14								Low
16								Ice
18								
20								
								Vx
22						Pebbles		
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 80 100 120 140 100+
0 20 40 60 80 100

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

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

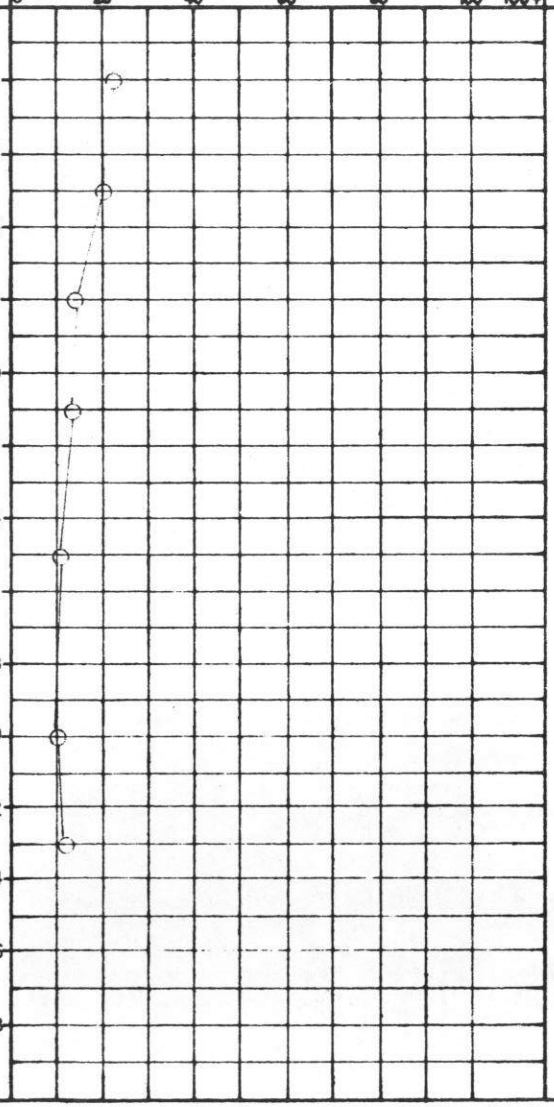
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE 2604+00	OFFSET	TEST HOLE 21
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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
2						2'		
						CLAY		Ice
4						-Silty		
						Sandy		
6						Pebbles		Vc - Vr
						Low-med. plastic		
8					CL			
10					CI			Low
12								
14								
16								Ice
18								
20						Gravelly		Vx
22						Pebbles		
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 %		
				Wet	
				Wet	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 152

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

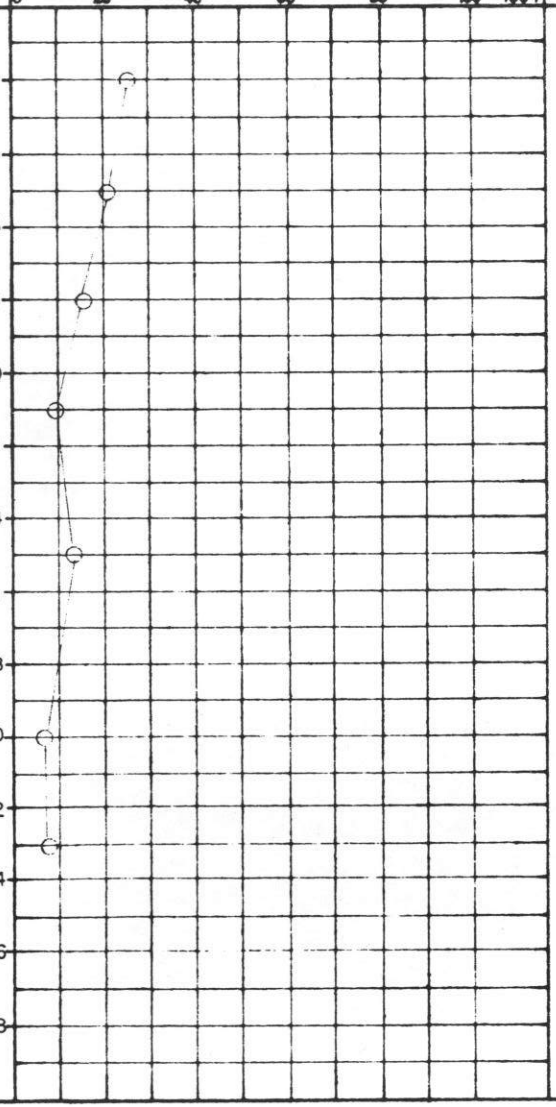
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2604+00	OFFSET.	TEST HOLE 22
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 773.5

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
2						2'		
4					CL	CLAY -Gravelly Silty Sandy - CL Sandstone chips		Vs Vc - Vr
6								
8						8'		
10						SHALE -Soft	F	
12						SANDSTONE-SHALE -Soft to med. hard		Low Ice
14								
16								
18								Vx
20								To
22								Nil
24								Nbn
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 60 80 100 120 140
0 20 40 60 80 100 100+



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

DEPTH (FEET)	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0		
2	Free Water	
4		
6	Wet	
8	Moist	
10		
12	Damp	
14		
16	Damp	
18		
20	Damp	
22		
24	Damp	
26		
28		

DS-14-5-74 b

BORROW PIT 154

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. 2343+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 5"	ELEV.

TEST HOLE 1

MILE 769

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					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		Ice
4								
6								Vc - Vr
8					CI	Gravelly	F	
10								
12						Pebbles		Low
14						14'		Ice
16						SHALE-SILTSTONE-SANDSTONE LAYERED		Vx
18								
20								Frozen
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
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					Sat.	
4					Sat.	
6						
8					Moist	
10					Moist	
12						
14					Damp	
16						
18						
20					Damp	
22					Damp	
24						
26						
28					Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 154

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. 2343+00	OFFSET.	TEST HOLE 2
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE 6"	ELEV.	MILE 769

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-med. plastic		Low
4								
6								Ice
8								
10					CI		F	
12								Vx
14								
16								
18								
20						Sandstone fragments		
22						— 22' SHALE & SANDSTONE -Soft-Layered		
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	40	60	80	100	120	140			

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 154

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. 2343+00 | OFFSET

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

TEST HOLE 3

MILE 769

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High
						1.1'		
2						CLAY		Ice
						-Sandy		
4						Silty		
						Pebbles		Vs
6					CL	Low-med. plastic		
								Moderate
8								
					CI		F	Ice
10								
								Vc - Vr
12								
14						14.5'		
						SHALE-SANDSTONE		
16						-Soft		
						Broken down		
18						Layered		Low
20								Ice
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
0 20 40 60 80 100 120 140 160 180+

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					Damp	
20					Damp	
22					Damp	
30					Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 154

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 2343+00	OFFSET.	TEST HOLE 4
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 7"	ELEV.	MILE 769

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'		Moderate							
2						CLAY -Sandy Silty Low-med. plastic		Ice	2					Wet	
4					CL				4					Wet	
6						Pebbles		Vc - Vr	6						
8									8					Wet	
10					CI		F		10					Moist	
12								Low	12						
14									14					Moist	
16								Ice	16						
18									18						
20								Vx	20					Damp	
22									22					Damp	
24									24						
26									26						
28									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

BORROW PIT 154

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. 2343+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 4"	ELEV.

TEST HOLE 5

MILE 769

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		
4						-Sandy		
						Silty		
						Gravelly		
						Low-med. plastic		
6					CL	Pebbles		Low
8								
								Ice
10					CI		F	
12								
14								
								Vx
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	40	60	80	100	120	140	160+
		0	20	40	60	80	100	120+

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

RELATIVE THAWED MOISTURE CONTENT	REMARKS
Moist	
Moist	
Moist	
Moist	
Moist	
Moist	
Moist	
Moist	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 154

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. 2343+00 | OFFSET.

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

TEST HOLE 6

MILE 769

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							Wet	
						-Silty								
						Sandy		Low						
4						Pebbles								
					CL	Low-med. plastic							Wet	
6														
8													Moist	
							F							
10					CI			Ice					Moist	
12														
14													Moist	
								Vx						
16						Gravelly								
18														
20						Pebbles							Damp	
22													Damp	
24														
26														
28						28'								
						SHALE - Soft SANDSTONE-SILTSTONE -Med. hard 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+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 154

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. 2343+00 | OFFSET.

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

TEST HOLE 7

MILE 769

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
2					Pt	PEAT — 1.4'		High Ice Vs	2					Free Water	
4					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Moderate Ice	4					Wet	
6									6						
8									8					Wet	
10							F	Vc - Vr	10					Wet	
12					CI				12						
14								Low Ice	14					Moist	
16									16						
18									18						
20								Vx	20					Moist	
22						Boulder chips			22					Moist	
24									24						
26									26						
28									28					Moist	
						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

BORROW PIT 154

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. 2343+00 | OFFSET.

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

TEST HOLE 8

MILE 769

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					CL	CLAY -Silty Sandy Pebbles to 4' Low-med. plastic	F	Moderate Ice Vc - Vr
4								
6								
8								Low Ice Vx
10					CI			
12								
14								
16								
18								
20					CI	Pebbles		
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	
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 154

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. 2343+00 | OFFSET.

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

TEST HOLE 9

MILE 769

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE 2260+40	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE 767

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
2						CLAY -Silty Sandy Pebbles		
4								
6					CL	Low-med. plastic		Vc - Vr
8							F	
10								Low
12								
14					CI			Ice
16								
18								
20						— 20'		Vx
22						SHALE -Soft		
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

0 | 40 20 | 60 30 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

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

DS-14-5-74 b

BORROW PIT 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2260+40 | OFFSET.

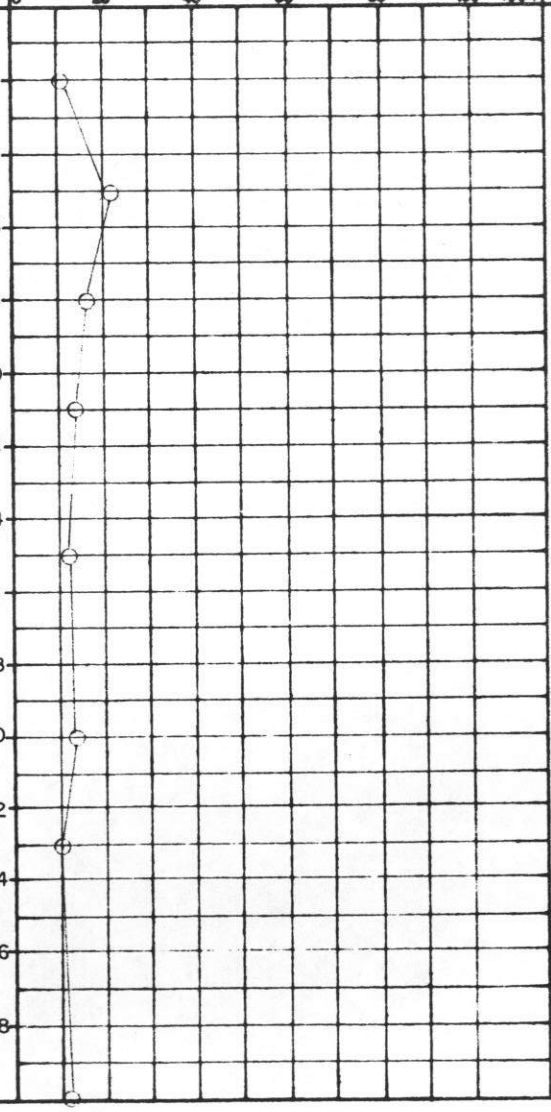
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE - BIRCH 5" | ELEV.

TEST HOLE 2

MILE 767

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		
4								
6					CL			Low
8								
10							F	
12								Ice
14					CI			
16								
18								Vx
20								
22						— 23'		
24						SHALE-SILTSTONE- SANDSTONE -Soft		
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
2					Moist
4					
6					Wet
8					Moist
10					Damp
12					
14					Damp
16					
18					
20					Damp
22					Damp
24					
26					
28					Damp

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2260+40 | OFFSET.

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

TEST HOLE 3

MILE 767

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
					Pt	PEAT			
						1.2'			
2						CLAY			2
4						-Sandy			4
						Silty			
					CL	Low-med. plastic			
6						Pebbles			6
								Low	
8									8
10					CI		F	Ice	10
12									12
14									14
16								Vx	16
18									18
20					CI				20
22									22
						23'			
24						SHALE			24
26						-Siltstone			26
						Sandstone			
28						Soft			28
						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
0 20 40 60 80 100 100+

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2260+40 | OFFSET.

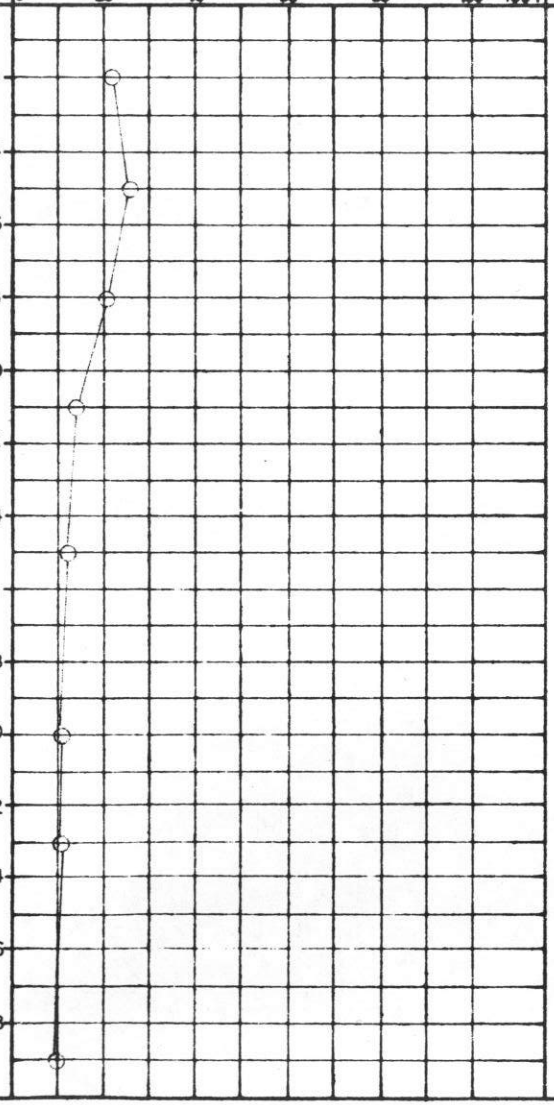
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE MAX. 4" | ELEV.

TEST HOLE 4

MILE 767

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'								
2						CLAY -Silty Sandy Pebbles Med. plastic		Moderate Ice
8					CI			Vc - Vr
10							F	
14'								Low Ice
16						SHALE-SILTSTONE- SANDSTONE -Soft		
20								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
					Wet	
					Sat.	
					Wet	
					Damp	
					Damp	
					Damp	
					Damp	
					Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2260+40 | OFFSET.

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

TEST HOLE 5

MILE 767

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			
						1.1'			
2						CLAY			Moist
						-Organic mat. to 4'			
						Sandy			
4					CL	Silty			Moist
						Pebbles			
6						Low-med. plastic		Low	
8									Moist
10					CI		F		
									Damp
12								Ice	
14						14'			
						SANDSTONE			Damp
16						-Soft			
						Ground down		Vx	
18									
20									Damp
22									
									Damp
24						SHALE & SANDSTONE			
						-Soft			
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+
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 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED.	AIRPHOTO NO.	CHAINAGE 2260+40	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 5"	ELEV.

TEST HOLE 6

MILE 767

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	REMARKS
					Pt	PEAT 1'								
2					CL	CLAY -Silty Sandy Low-med. plastic		Moderate Ice Vc - Vr					Wet	
4													Wet	
6					CI									
8						Pebbles							Moist	
10							F	Low					Moist	
12														
14								Ice					Moist	
16														
18								Vx						
20													Moist	
22														
24													Moist	
26														
28						Sandstone fragments 30'							Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2260+40 | OFFSET.

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

TEST HOLE 7

MILE 767

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		Moderate
						-Silty		
						Sandy		
4						Pebbles		Ice
					CL	Low-med. plastic		
6								Vc - Vr
8						Gravelly		
					CI			
10								
						Pebbles	F	
12								Ice
14								Low
						Sandstone chips		
16								
18								
						18'		
						SHALE-SANDSTONE		
20						-Soft		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
0 20 40 60 80 100 120 140 100+

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

REMARKS

DS-14-5-74 b

BORROW PIT 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2260+40	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE 767

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		To High
4						-Silty		Ice
6					CL	Sandy		
8						Low-med. plastic		Vc-Vr-Vs
10						Pebbles		
12					CI		F	Low
14								Ice
16								
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

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					Free Water	
4						
6					Wet	
8					Moist	
10						
12					Moist	
14						
16					Moist	
18						
20					Moist	
22						
24					Moist	
26						
28						

DS-14-5-74 b

BORROW PIT 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2260+40 | OFFSET.

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

TEST HOLE 9

MILE 767

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		
4					CL	Low-med. plastic		Low
6								
8							F	
10					CI			
12								Ice
14								
16								
18								Vx
20						— 20'		
22						SHALE-SANDSTONE -Soft		
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
0 20 40 60 80 100 100+

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

DS-14-5-74 b

BORROW PIT 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2260+40	OFFSET.	TEST HOLE 10
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 767

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		Vs					Free Water	
0.5'														
2					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		High To Moderate						
4													Wet	
6								Vc - Vr						
8						Sandstone fragments							Moist	
10					CI		F	Low					Moist	
12														
14								Ice						
15'													Damp	
16						SANDSTONE -Soft								
18								Vx						
20													Damp	
22						SHALE & SANDSTONE								
24													Moist	
25'														
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 155

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2260+40	OFFSET.	TEST HOLE 11
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 767

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'	F	Vs					Free Water	
2						CLAY -Sandy Silty Pebbles Low-med. plastic		High To Moderate Ice Vc - Vr						
4														
6					CL								Wet	
8													Moist	
10					CI			Vc - Vr Moderate And Low Ice					Moist	
12													Moist	
14														
16														
18														
20													Moist	
22								Vx						
24						24' SHALE-SANDSTONE-Soft 25'								Damp	
26						BOTTOM OF HOLE - 25'									
28														

DS-14-5-74 b

BORROW PIT 156

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO.	CHAINAGE. 2251 + 00	OFFSET.
TECH. PRONYCH	RIG. Mayhew #1	SURFACE DRAINAGE. Slope	VEGETATION. Spruce	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 .5'							
2					Cl	CLAY - SILTY SANDY LOW - MED. PLASTIC							MOIST
4						PEBBLES							MOIST
6					Ci			LOW					MOIST
8							F						
10						SOFT SHALE 50% OF SAMPLE		ICE					DAMP
12						12'		Vx					
14						SHALE - SOFT SANDSTONE - HARD		FROZEN					DAMP
16								Nbn					
18													
20													DAMP
22													
24						SHALE - SOFT - MED. HARD							DAMP
26													
28													DAMP

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 156

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/4/74	AIRPHOTO NO.	CHAINAGE. 2251 + 00	OFFSET.	TEST HOLE 2
TECH. PRONYCH	RIG. Mayhew #1	SURFACE DRAINAGE. Slope to S	VEGETATION. Spruce	ELEV.	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 1.5'		Vx					MOIST	
4					Cl	CLAY - SILTY SANDY PEBBLES							WET	
6					Ci									
8						7.5'		LOW					MOIST	
10						SHALE - SOFT BROKEN DOWN	F							
12								ICE					DAMP	
14						SOFT - MED. HARD							HUMID	
16								FROZEN						
18								Nbn						
20						SOFT - MED. HARD							HUMID	
22														
24													HUMID	
26														
28													HUMID	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 156

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO.	CHAINAGE. 2251 + 00	OFFSET.	TEST HOLE 3
TECH. PRONYCH	RIG. Mayhew #1	SURFACE DRAINAGE. Slope to South	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
0					Pt	PEAT 1'								
2					Cl Ci	CLAY - SILTY SANDY PEBBLES SANDSTONE FRAGS.							MOIST	
4													MOIST	
6														
8						8'							MOIST	
10						SHALE - SOFT BROKEN DOWN	F	LOW					DAMP		
12						SOFT - MED. HARD		ICE						
14						SOFT - MED. HARD							DAMP	
16								Vx						
18														
20													DAMP	
22														
24														
26													DAMP	
28														
													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 - 29'

DS-14-5-74 b

BORROW PIT 156

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

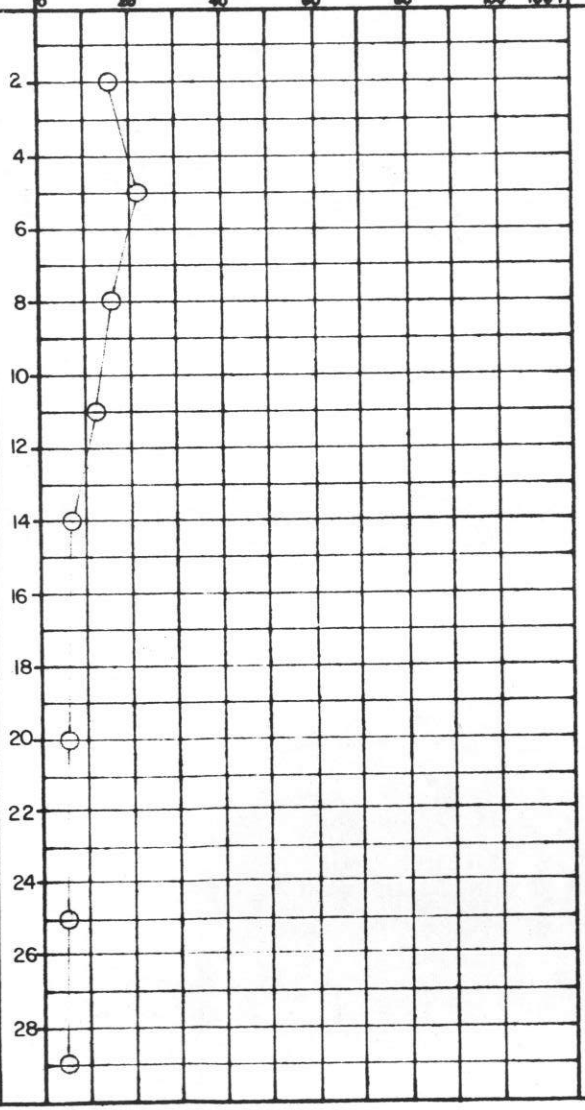
FIELD ENG. N. BURGESS | DATE DRILLED. 17/4/74 | AIRPHOTO NO. | CHAINAGE. 2251 + 00 | OFFSET.

TECH. PRONYCH | RIG. Mayhew #1 | SURFACE DRAINAGE. Slope to South | VEGETATION. Spruce | 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	REMARKS
0					Pt	PEAT 1.5'		LOW	MOIST	
2					Cl	CLAY - SANDY SILTY CLAY		ICE	WET	
4						PEBBLES				
6						LOW - MED. PLASTIC				
8					Ci		F	Vx	MOIST	
10									MOIST	
12						21'				
14						SHALE - SOFT - MED. HARD			DAMP	
16						SANDSTONE - HARD		FROZEN		
18								Nbn		
20						& SANDSTONE			DAMP	
22										
24									DAMP	
26										
28						SHALE - SOFT - MED. HARD			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 %

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 156

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS | DATE DRILLED. 17/3/74 | AIRPHOTO NO. | CHAINAGE. 2251 + 00 | OFFSET.

TECH. PRONYCH | RIG. Mayhew #1 | SURFACE DRAINAGE. Slope to South | 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
					Pt	PEAT 1'		LOW ICE Vx
2						CLAY - SILTY SANDY PEBBLES		
4					Cl	LOW - MED. PLASTIC		MODERATE ICE Vc - Vr
6								
8								
10					Ci		F	LOW
12								
14								ICE
16								
18								Vx
20								
22								
24						SHALE FRAGMENTS		
26						26'		
28						SHALE & SILTSTONE SOFT - MED. HARD		

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
	%	%	%	%

DEPTH (FEET)	RELATIVE THAWED MOISTURE CONTENT
2	MOIST
4	WET
8	MOIST
10	MOIST
14	MOIST
20	DAMP
24	DAMP
28	DAMP

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 156

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 17/3/74 | AIRPHOTO NO. | CHAINAGE. 2251 + 00 | OFFSET.

TECH. PRONYCH | RIG. Mayhew #1 | SURFACE DRAINAGE. Slope to South | VEGETATION. Spruce | ELEV.

TEST HOLE 6

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'		LOW ICE						
2					Cl	CLAY - SILTY SANDY SANDSTONE FRAGS.		Vx					MOIST	
4													WET	
6					Gc	GRAVEL-CLAY-SAND MIX 6'								
8						SHALE - SILTSTONE - SANDSTONE SOFT - HARD							DAMP	
10							F						HUMID	
12								FROZEN						
14								Nbn					HUMID	
16														
18														
20													HUMID	
22														
24													HUMID	
26														
28													HUMID	

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

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 156

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO.	CHAINAGE. 2251 + 00	OFFSET.
TECH. PRONYCH	RIG. Mayhew #1	SURFACE DRAINAGE. Slope to South	VEGETATION. Spruce	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
0					Pt	PEAT 1'		
2						CLAY - SANDY SILTY		
4								
6						PEBBLES		LOW
8							F	
10								
12								ICE
14								
16								Vx
						17'		
18						SHALE - SILTSTONE SOFT		
20								FROZEN
22								Nbη
24								
26								
28						SHALE - SOFT - MED. HARD		

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					DAMP	
22						
24					HUMID	
26						
28					HUMID	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 156

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS | DATE DRILLED. 17/3/74 | AIRPHOTO NO. | CHAINAGE. 2251 + 00 | OFFSET.

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

TEST HOLE 8

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 SANDY							MOIST	
4					Cl	LOW - MED. PLASTIC							MOIST	
6						PEBBLES								
8					Ci		F	Vx					MOIST	
10													MOIST	
12						SOFT SHALE 12'		LOW						
14						SHALE - SOFT		ICE					MOIST	
16														
18								FROZEN						
20						SHALE - SILTSTONE		Nbn					DAMP	
22														
24													HUMID	
26														
28													HUMID	

BOTTOM OF HOLE - 29'

DS-14-5-74 b

BORROW PIT 156

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS | DATE DRILLED. 17/3/74 | AIRPHOTO NO. | CHAINAGE. 2251 + 00 | OFFSET.

TECH. PRONYCH | RIG. Mayhew #1 | SURFACE DRAINAGE. Slope to south | VEGETATION. Spruce | ELEV.

TEST HOLE 9

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'		LOW ICE Vx					MOIST	
2						CLAY - SILTY SANDY PEBBLES - BOULDER CHIPS GRAVELLY	F							
4													WET	
6								MODERATE ICE Vc - Vr						
8						PEBBLES							WET	
10						10' SHALE - SILTSTONE - SANDSTONE - SOFT		Vx ICE LOW					MOIST	
12														
14						SOFT - MED. HARD		FROZEN					HUMID	
16														
18														
20								Nbr					HUMID	
22														
24													HUMID	
26						SHALE - MED. HARD								
28													HUMID	
						MED. HARD - HARD								

BOTTOM OF HOLE - 29'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

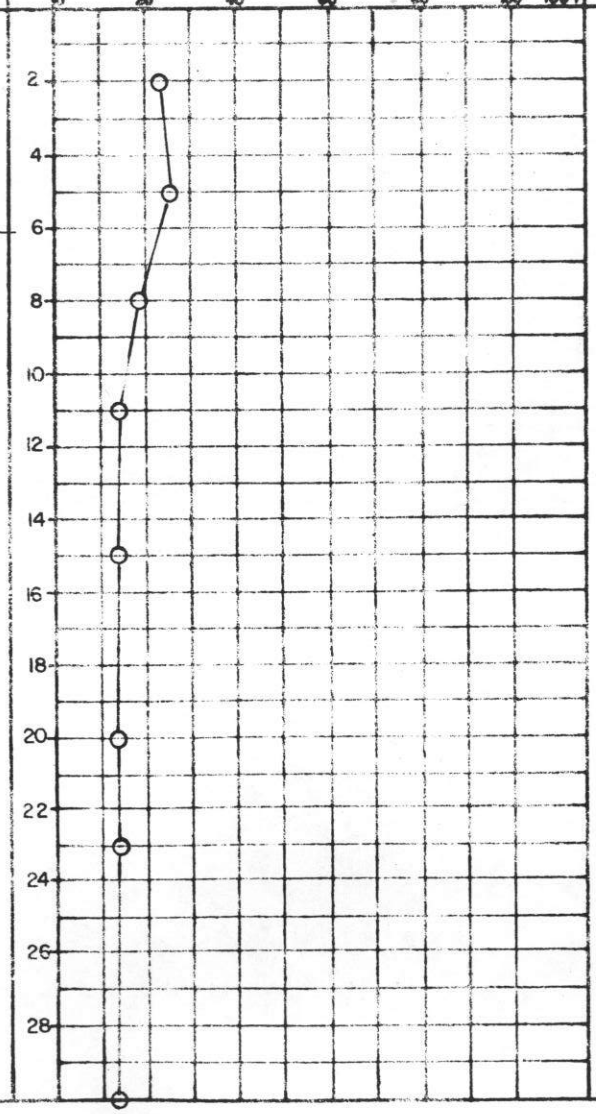
FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2188+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max: 8"	ELEV.

TEST HOLE 1

MILE 766

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					OH	ORGANIC 1.4 Clay - Silty - Sandy - Pebbles Med. Plastic		Moderate					Sat.	
4								Ice					Wet	
6								Vc -Vr						
8							F	Low					Moist	
10					Cl								Damp	
12								Ice						
14													Damp	
16														
18														
20								VX					Damp	
22													Damp	
24														
26														
28						BOTTOM OF HOLE 30'							Moist	

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



8074

DS-14-5-74 b

BORROW PIT 157

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

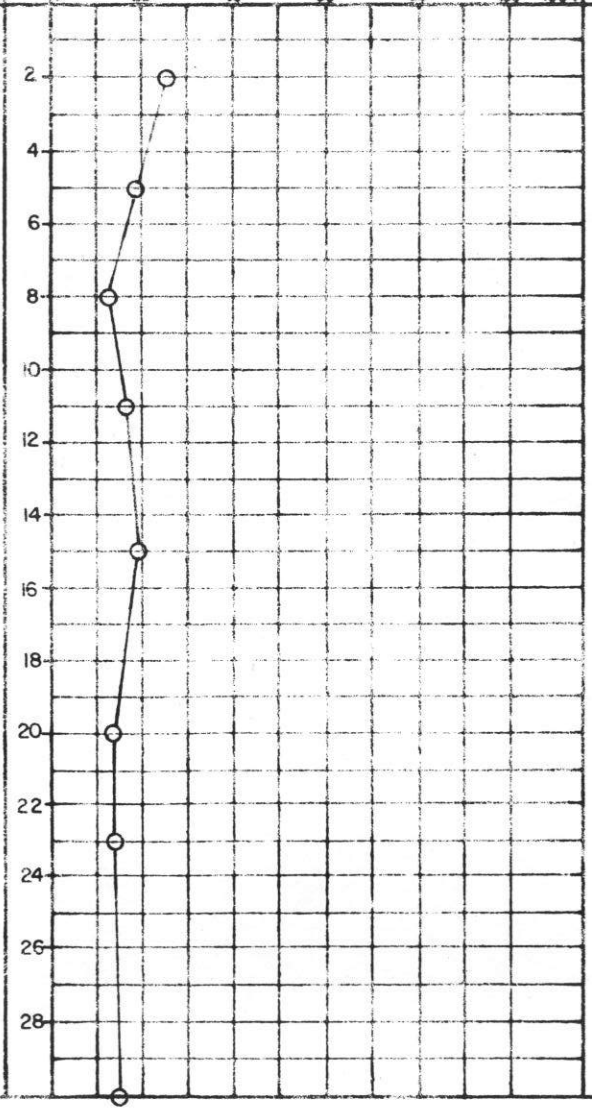
FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE 2188+00	OFFSET
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max: 7"	ELEV.

TEST HOLE 2

MILE 766

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 1.3' Org. Mat. to 4'		VC - Vr Moderate					Moist	
4						Clay - Silty - Sandy - Pebbles							Wet	
6						Med. Plastic		To					Moist	
8						- Gravelly								
10					Cl		F						Moist	
12						- Pebbles		Low						
14													Moist	
16								Ice						
18														
20													Damp	
22								VX					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



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DS-14-5-74 b

BORROW PIT 157

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2188+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max: 8"	ELEV.

TEST HOLE 3

MILE 766

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 1.1'		Moderate Ice					Sat.	
2						Clay - Sandy - Silty - Pebbles Med. Plastic								
4													Wet	
6					Cl									
8							F	Vc -Vr					Moist	
10													Damp	
12								Low						
14													Damp	
16														
18								Ice						
20													Damp	
22								VX						
24													Damp	
26														
28						BOTTOM OF HOLE 30'							Moist	

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

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET) 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28

40 60 80 100 120 140 100+

B024

DS-14-5-74 b

BORROW PIT 157

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

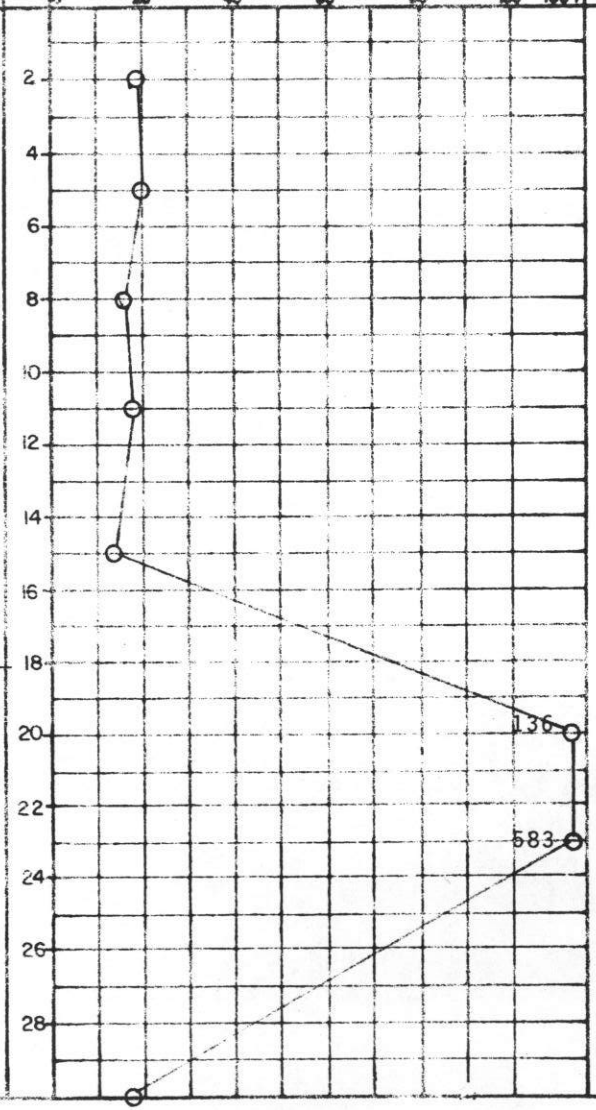
FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2188+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max:9"	ELEV.

TEST HOLE 4

MILE 766

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 Med. Plastic		Moderate
6								
8					Cl		F	Ice
10								
12								Vc - Vr
14								
16								
18						18'		
20						Ice		Ice
22								
24								
26						25'		
28								Low Ice
						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	REMARKS
				Wet	
				Moist	
				Moist	
				Moist	
				Damp	
				Water	
				Water	
				Wet	

8074

DS-14-5-74 b

BORROW PIT 157

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED 16/3/74 | AIRPHOTO NO. | CHAINAGE 2188+00 | OFFSET

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

TEST HOLE 5

MILE 766

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1.3'		Vc - Vr
4						Clay - Sandy - Silty - Pebbles Med. Plastic		Moderate
6								
8					Cl			To
10								
12								Low
14								
16								Ice
18								
20								VX
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./Ft³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	2	4	6	8	10	12	14	16	18	20	22	24	26	28
5	40	60	80	100	120	140	100+							
20		20	40	60	80	100								

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

REMARKS

8074

DS-14-5-74 b

BORROW PIT 157

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED 16/3/74 | AIRPHOTO NO. | CHAINAGE 2188+00 | OFFSET

TECH. McINTOSH | RIG MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION Spruce - Alders 8" | ELEV.

TEST HOLE 6

MILE 766

DRY DENSITY (lbs./ Ft³)
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 1.6'		Vc - Vr					Moist	
4						Clay - Sandy - Silty - Pebbles Med. Plastic		Moderate					Wet	
6														
8					Cl								Moist	
10							F						Moist	
12								Low						
14								Ice					Damp	
16														
18								Content						
20													Moist	
22								VX					Moist	
24														
26														
28						BOTTOM OF HOLE 30'							Moist	

80-74

DS-14-5-74 b

BORROW PIT 157

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 16/3/74 | AIRPHOTO NO. | CHAINAGE. 2188+00 | OFFSET.

TECH. McINTOSH | RIG MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce | ELEV.

TEST HOLE 7

MILE 766

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–1.3'					Pt	PEAT 1.3'		
1.3'–30'					Cl	Clay - Sandy - Silty - Pebbles Med. Plastic	F	Low To VX Moderate Ice Vc - Vr
30'						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs./Ft³) ○
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 %		
				Moist	
				Sat.	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Wet	

8074

DS-14-5-74 b

BORROW PIT 157

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: Section - D -

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2188+00	OFFSET
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce	ELEV.

TEST HOLE 8

MILE 766

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 1.3'		VX					Damp	
4					SM	Sand - Silty N.P. 4'		Low					Sat.	
6					CL	Clay - Silty - Sandy Low - Med. Plastic - Pebbles							Moist	
8					Cl		F	Moderate						
10													Moist	
12														
14													Damp	
16								Ice						
18														
20								Vc - Vr					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
40 60 80 100 120 140 100+

DS-14-5-74 b

BORROW PIT #157

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 17/3/74	AIRPHOTO NO.	CHAINAGE 2188+00	OFFSET.
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE Good	VEGETATION. Spruce Max: 5"	ELEV.

TEST HOLE 9

MILE 766

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 1.2'		Vc - Vr					Wet	
4						Clay - Sandy		Moderate					Wet	
6						- Silty								
8					Cl	- Pebbles	F						Damp	
10						Med. Plastic		Low					Damp	
12								VX						
14													Wet	
16														
18								Moderate						
20													Wet	
22								Ice					Wet	
24														
26														
28						BOTTOM OF HOLE 30'							Moist	

DRY DENSITY (lbs./ft³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

BORROW PIT 157

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 17/3/74 | AIRPHOTO NO. | CHAINAGE. 2188+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE Good | VEGETATION Spruce Max:6" | ELEV.

TEST HOLE 10

MILE 766

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 to
4						Clay - Silty		Moderate
6						- Sandy		Vs
8						- Pebbles		Ice
10					Cl	Med. Plastic	F	Vc - Vr
12								Low
14								
16								Ice
18								
20								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 CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Free Water	
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

80/74

DS-14-5-74 b

BORROW PIT #158

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 18/3/74 | AIRPHOTO NO. | CHAINAGE 2124+00 | OFFSET.

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

TEST HOLE 1

MILE 764.5

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 .5'		Moderate						
2						Clay - Sandy Silty Low-Medium Plastic		Ice					Wet	
4					CL	Pebbles		Vc - Vr					Wet	
6														
8													Moist	
10					Cl		F						Moist	
12								Low Ice						
14													Moist	
16														
18								VX						
20													Moist	
22					CL	Gravelly							Damp	
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 80 100 120 140 100+

R074

DS-14-5-74 b

BORROW PIT 158

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 18/2/74 | AIRPHOTO NO. | CHAINAGE. 2124+00 | OFFSET.

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

TEST HOLE 2

MILE 764.5

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'	F	Moderate To High Ice Vc - Vr Vs
2						Clay - Silty Sandy Pebbles Low-Med. Plastic		
4								
6					CL			
8								Low
10								
12					Cl			
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

DEPTH (FEET)	0	20	40	60	80	100	120	140	160	180+

GRAIN-SIZE ANALYSIS

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

REMARKS

8074

DS-14-5-74 b

BORROW PIT 158

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 18/3/74 | AIRPHOTO NO. | CHAINAGE. 2124+00 | OFFSET.

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

TEST HOLE 3

MILE 764.5

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 To Moderate Ice Vs
4					CL	Clay - Sandy - Silty - Pebbles Low -Med. Plastic		
6								Vc - Vr
8								
10					Cl		F	Low
12								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

40 5 | 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	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

8074

DS-14-5-74 b

BORROW PIT 158

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

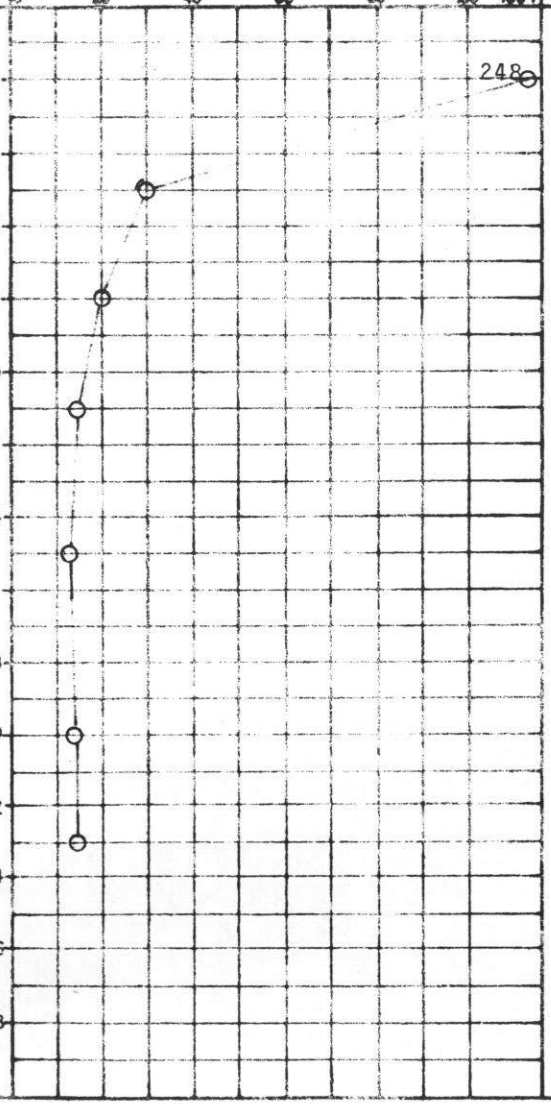
FIELD ENG. N. BURGESS	DATE DRILLED. 18/3/74	AIRPHOTO NO.	CHAINAGE. 2124+00	OFFSET.
TECH. BAINE	RIG. MAYHEW 1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 764.5

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		High To Moderate Vs					Free Water	
4						4.5'								
6					CL	Clad - Silty Sandy Pebbles Low-Med. Plastic		Vc -Vr					Sat.	
8													Moist	
10								Low						
12					Cl		F						Moist	
14								Ice					Damp	
16														
18								VX						
20													Damp	
22													Damp	
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



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DS-14-5-74 b

BORROW PIT 158

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 18/3/74 | AIRPHOTO NO. | CHAINAGE. 2124+00 | OFFSET. | TEST HOLE 5

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE | VEGETATION. | ELEV. | MILE 764.5

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 .5'		Moderate						
2						Clay - Silty Sandy		Ice					Sat.	
4						- Boulder Chips								
6						- Pebbles		Vc - Vr					Wet	
8					CL	Low-Med. Plastic							Moist	
10							F	Low					Moist	
12					Cl			Ice						
14						Sandy Silty		VX					Moist	
16														
18													Moist	
20														
22													Damp	
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
5 10 20 40 60 80 100 120 140 160 180+

8074

DS-14-5-74 b

BORROW PIT 159

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 18/3/74 | AIRPHOTO NO. | CHAINAGE 2025+75 | OFFSET | TEST HOLE 1

TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE | VEGETATION | ELEV. | MILE 763

DRY DENSITY (lbs./ft³) ⊕ 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'							Humid	
4						Clay - Silty		Low						
6						- Sandy							Wet	
8					Cl	Med. Plastic							Damp	
10						- Pebbles		Ice					Damp	
12							F							
14													Damp	
16								VX						
18														
20													Damp	
22													Moist	
24														
25														
26														
28						BOTTOM OF HOLE 29'							Moist	

8074

DS-14-5-74 b

BORROW PIT 159

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 18/3/74 | AIRPHOTO NO. | CHAINAGE. 2025+75 | OFFSET.

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

TEST HOLE 2

MILE 763

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 - Sandy - Silty - Pebbles		
4						Med. Plastic		Ice
6					Cl			Vc - Vr
8								
10						Shale Fragments	F	
12								
14								Low
16								Ice
18								
20						Pebbles		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)	0	20	40	60	80	100	120	140	100+
	0	60	40	80	60	100	80	120	

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

8074

DS-14-5-74 b

BORROW PIT 159

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 18/3/74 | AIRPHOTO NO. | CHAINAGE. 2025+75 | OFFSET.

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

TEST HOLE 3

MILE 763

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 - Sandy - Silty - Pebbles		To
4						Med. Plastic		
6								Low
8							F	
10					Cl			
12								Ice
14								
16								Vc - Vr
18								
20								VX
22								
24								
26								
28						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)	0	20	40	60	80	100	120	140	100+

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

REMARKS

8074

DS-14-5-74 b

BORROW PIT 159

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED 18/3/74	AIRPHOTO NO.	CHAINAGE 2025+00	OFFSET
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE	VEGETATION	ELEV.

TEST HOLE 4

MILE 763

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 Org. Mat. to 7'		Ice
4								
6						Med. Plastic		VS
8						- Pebbles		
10					Cl		F	Low
12								
14								
16								Ice
18								
20								
22								VX
24								
26								
28						BOTTOM OF HOLE 29'		

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	180+
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	REMARKS
0					Moist	
2						
4					Free Water	
6						
8					Wet	
10					Wet	
12						
14					Moist	
16						
18						
20					Moist	
22						
24					Damp	
26						
28					Damp	

8074

DS-14-5-74 b

BORROW PIT 159

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. | VEGETATION. | ELEV.

TEST HOLE 5

MILE 763

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'							Damp	
4						Clay - Silty - Sandy - Pebbles Med. Plastic		Low					Wet	
6														
8					Cl								Moist	
10							F						Damp	
12								Ice						
14													Damp	
16														
18								VX						
20													Damp	
22														
24													Moist	
26														
28														
						BOTTOM OF HOLE 29'							Moist	

DRY DENSITY (lbs./ft³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

BORROW PIT 159

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

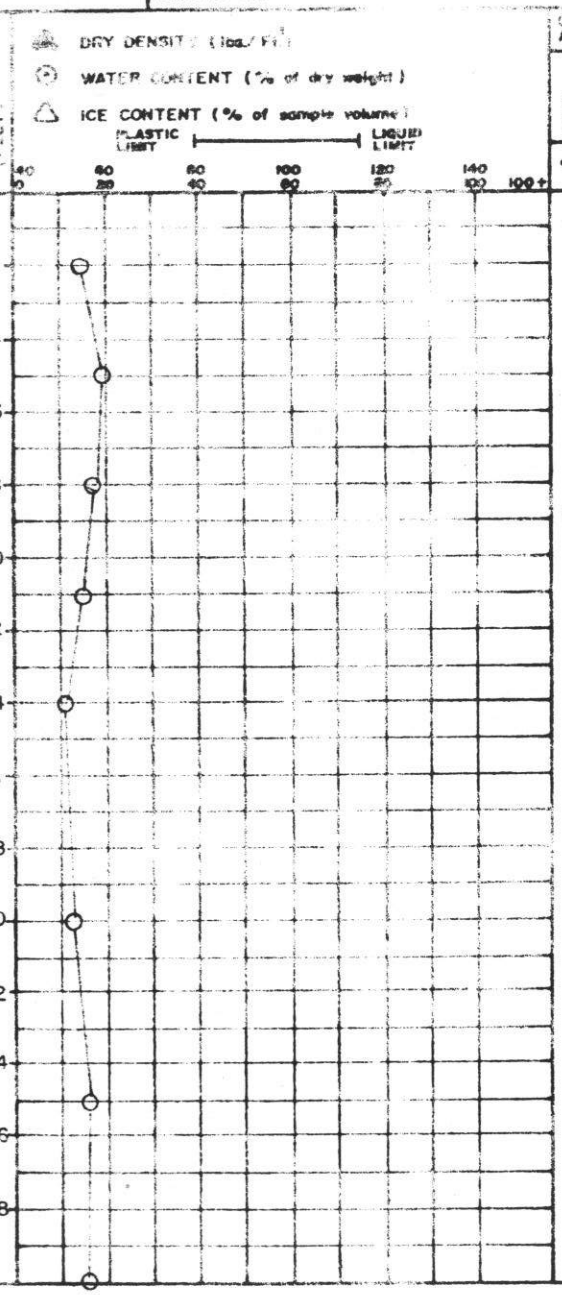
FIELD ENG. N. BURGESS | DATE DRILLED 18/3/74 | AIRPHOTO NO. | CHAINAGE 2025+75 | OFFSET

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

TEST HOLE 6

MILE 763

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 - Silty							Damp	
4						- Sandy							Wet	
6						- Pebbles		Low						
8						Med. Plastic							Moist	
10					Cl								Moist	
12							F	Ice						
14													Damp	
16														
18								VX						
20													Damp	
22														
24													Moist	
26														
28													Moist	
						BOTTOM OF HOLE 29'								



8074

DS-14-5-74 b

BORROW PIT 159

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 16/3/74	AIRPHOTO NO.	CHAINAGE. 2025+75	OFFSET.
TECH. PRONYCH	RIG. MAYHEW#1	SURFACE DRAINAGE.	VEGETATION	ELEV.

TEST HOLE 7

MILE 763

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

DRY DENSITY (lbs./ft³)
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	
				Moist	
				Moist	
				Moist	

B074

DS-14-5-74 b

BORROW PIT 159

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. N. BURGESS	DATE DRILLED. 18/3/74	AIRPHOTO NO.	CHAINAGE. 2025+75	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE 763

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

DEPTH (FEET)

DRY DENSITY (lbs./ Ft³)

WATER CONTENT (% of dry weight)

ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

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

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

8074

DS-14-5-74 b

BORROW PIT 159

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 18/3/74	AIRPHOTO NO.	CHAINAGE. 2025+75	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE	VEGETATION	ELEV.

TEST HOLE 9

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'		Moderate					Damp	
4						Clay - Sandy								
6						- Silty		Ice					Sat.	
8						- Pebbles								
10					Cl	Low-Med. Plastic	F	Vc - Vr					Wet	
12													Moist	
14								Low					Moist	
16														
18								Ice						
20													Moist	
22								VX					Damp	
24														
26														
28						BOTTOM OF HOLE 29'							Moist	

3074

DS-14-5-74 b

BORROW PIT 159

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. N. BURGESS	DATE DRILLED 18/3/74	AIRPHOTO NO.	CHAINAGE 2025+75	OFFSET	TEST HOLE 10
TECH. PRONYCH	RIG MAYHEW #1	SURFACE DRAINAGE	VEGETATION	ELEV.	MILE 763

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'		High VS To Moderate Ice					Free Water	
4						Clay - Sandy - Silty - Pebbles Med. Plastic								
6													Free Water	
8													Wet	
10					Cl		F	Vc - Vr Low Ice					Moist	
12														
14													Damp	
16														
18														
20								VX					Damp	
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

B074

DS-14-5-74 b

BORROW PIT 160

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1889+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE 760

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 — 3"								
2					CI	CLAY -Sandy Silty Pebbles Med. plastic		Low	Wet					
4									Moist					
6														
8						— 8'	F		Moist					
10						SHALE -Soft Med. hard Siltstone chips		Ice	Damp					
12						SHALE -Med. hard								
14								Vx	Moist					
16														
18														
20									Damp					
22									Damp					
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

BORROW PIT 160

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 1889+00 | OFFSET.

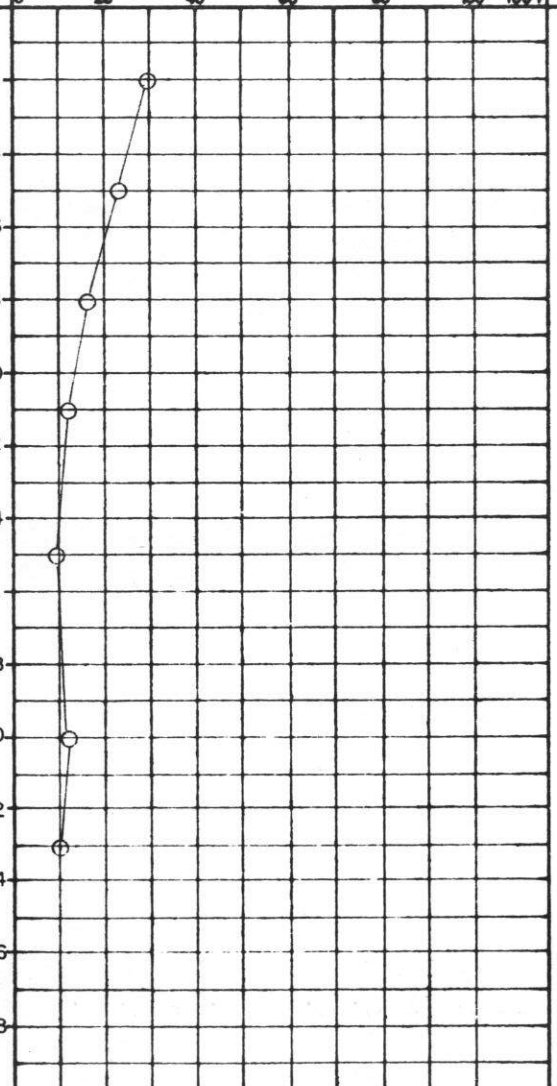
TECH. JOHNSON | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE 760

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'	F	Moderate
2								
4						CLAY -Sandy Silty Pebbles Med. plastic		Ice
6					CI			Vc - Vr
8								
10						— 10.5'		
12						SHALE -Soft		Low
14						Soft-med. hard		
16								Ice
18								
20								Vx
22								
24						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



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

DS-14-5-74 b

BORROW PIT 160

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1889+00	OFFSET.	TEST HOLE 3
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 760

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		High Ice					Free Water	
2						2'		Vs						
4					CI	CLAY -Sandy Silty Pebbles Gravelly @ 5' Med. plastic	F						Sat.	
6														
8						Pebbles							Moist	
10								Low						
12						11' SHALE -Soft							Moist	
14								Ice						
16						Siltstone fragments							Moist	
18								Vx						
20								To Nil					Damp	
22								Ice						
24						Soft-med. hard		Nbn					Damp	
26						25' BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 160

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

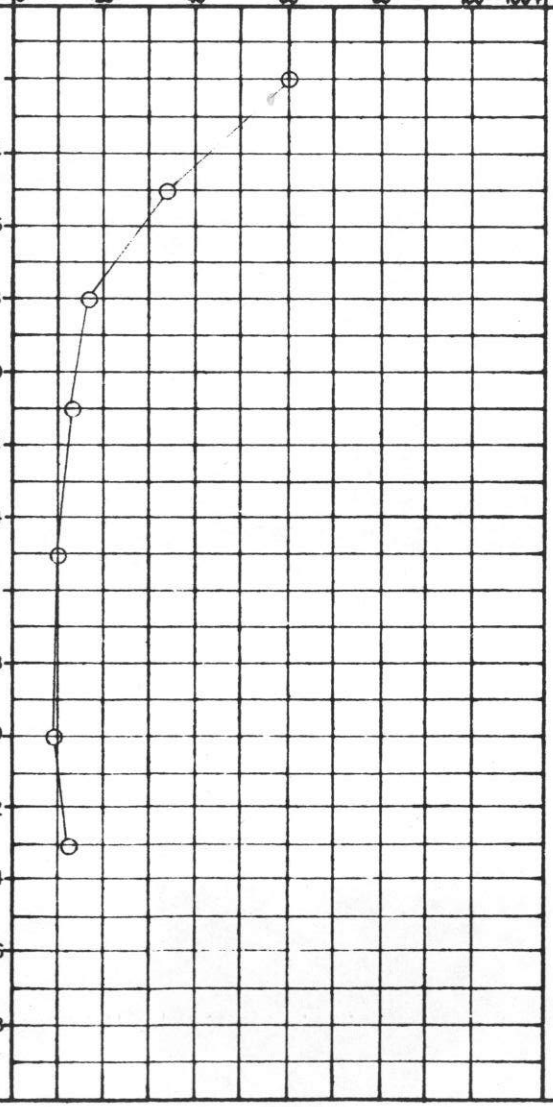
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1889+00	OFFSET.	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 4
					MILE 760

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
						2'		
4					CI	CLAY -Org. mat. to 4' Sandy Silty Med. plastic Gravelly		Ice
6								Vs
8						Pebbles		
10								Low
						11'		
12						SHALE -Soft		
14								
16						SHALE-SILTSTONE -Soft		Ice
18								
20								Vx
22								
24						SHALE -Med. 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



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

DS-14-5-74 b

BORROW PIT 160

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1889+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE 760

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 -Sandy Silty Med. plastic		Low					Moist	
4													Moist	
6					CI	Pebbles								
8							F	Ice					Moist	
10						— 11'							Damp	
12						SHALE -Med. hard Siltstone fragments								
14													Moist	
16						SHALE -Soft-med. hard		Vx						
18														
20													Moist	
22													Damp	
24						Med. hard								
25						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 160

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

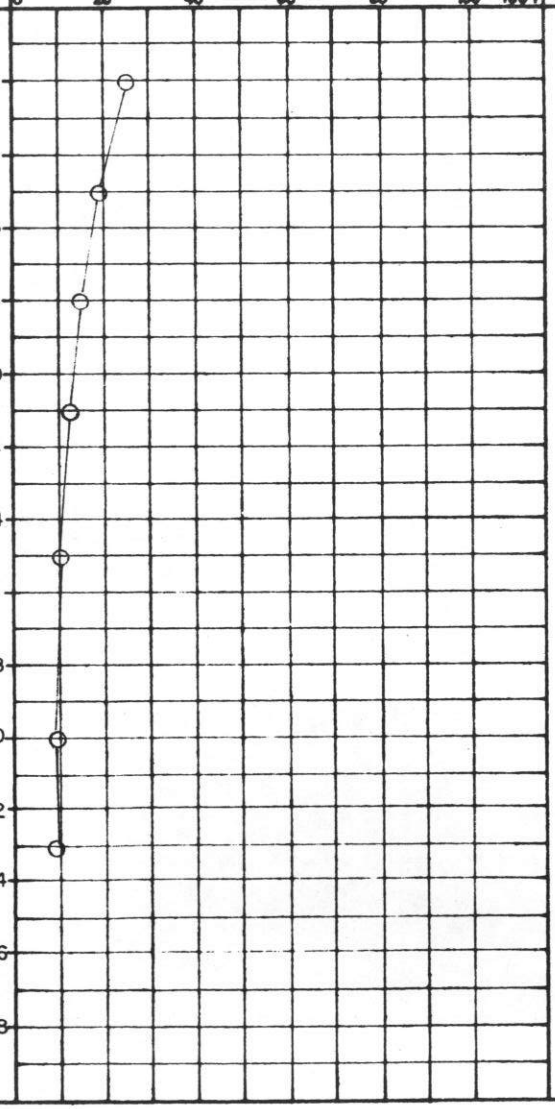
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1889+00	OFFSET.	TEST HOLE 6
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 760

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		Moderate Ice Vc - Vr
2					CI	CLAY -Sandy Silty Pebbles Med. plastic	F	Low
4								
6								
8								
10						11'		
12						SHALE -Soft		Ice
14						Med. hard		
16								
18								
20								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)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Wet	
4					Wet	
8					Moist	
10					Moist	
14					Moist	
20					Damp	
22					Damp	

DS-14-5-74 b

BORROW PIT 160

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 1889 + 00 | OFFSET.

TECH. McINTOSH | RIG. Mayhew #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce Max. 3" | 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
0					Pt	PEAT 1.4'		
2						CLAY - SILTY SANDY PEBBLES		LOW
4					Cl	LOW - MED. PLASTIC		ICE
6					Ci			Vx
8								
10						11'	F	
12						SHALE - SILTY SOFT		
14								FROZEN
16								
18								Nbη
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	
6					MOIST	
10					DAMP	
12					HUMID	
16					HUMID	
20					HUMID	
24					HUMID	
28					HUMID	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 160

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N.BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1889 + 00	OFFSET.	TEST HOLE 8
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 3"	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.1'		
2						CLAY - SILTY SANDY PEBBLES		LOW
4					Cl			ICE
6						LOW - MED. PLASTIC		Vx
8					Ci			
10						10'		
12						SHALE - SILTY SOFT	F	FROZEN
14								
16								Nbη
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+

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 160

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 1889+00 | OFFSET.

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

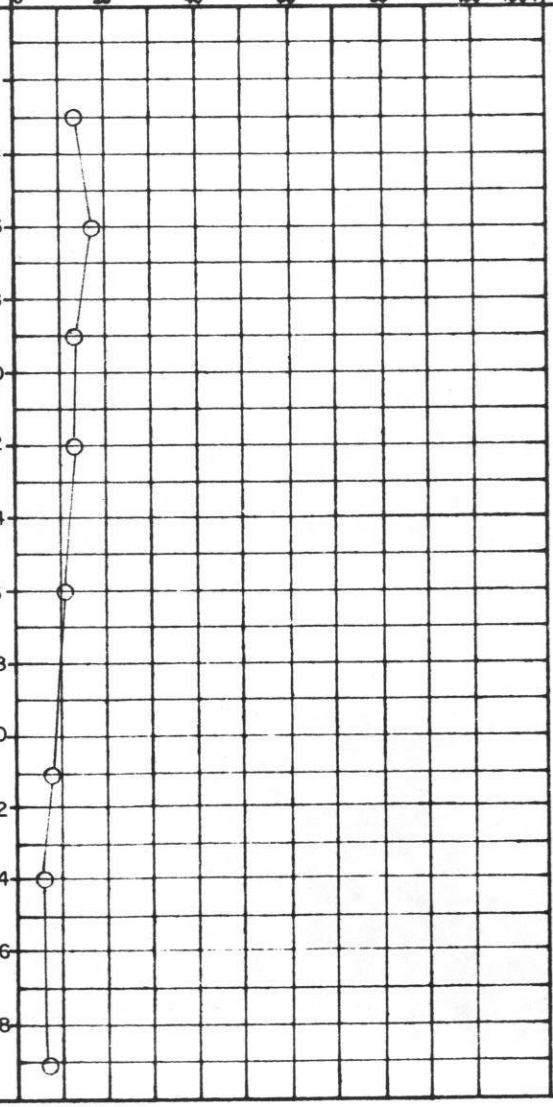
TEST HOLE 9

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						CLAY		
4						-Silty		Low
						Sandy		
						Pebbles		
					CL	Low-med. plastic		
6								Ice
8					CI			
10							F	Vx
12								
14						14'		
						SHALE		
						-Silty		Frozen
16						Soft		
						Sandstone &		
18						Siltstone fragments		Nbn
20								
22								
24								
26								
28						Soft-med. 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
CLAY %	SILT %	SAND %	GRAVEL %	
				Damp
				Moist
				Damp
				Damp
				Humid
				Humid
				Humid
				Humid

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 160

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

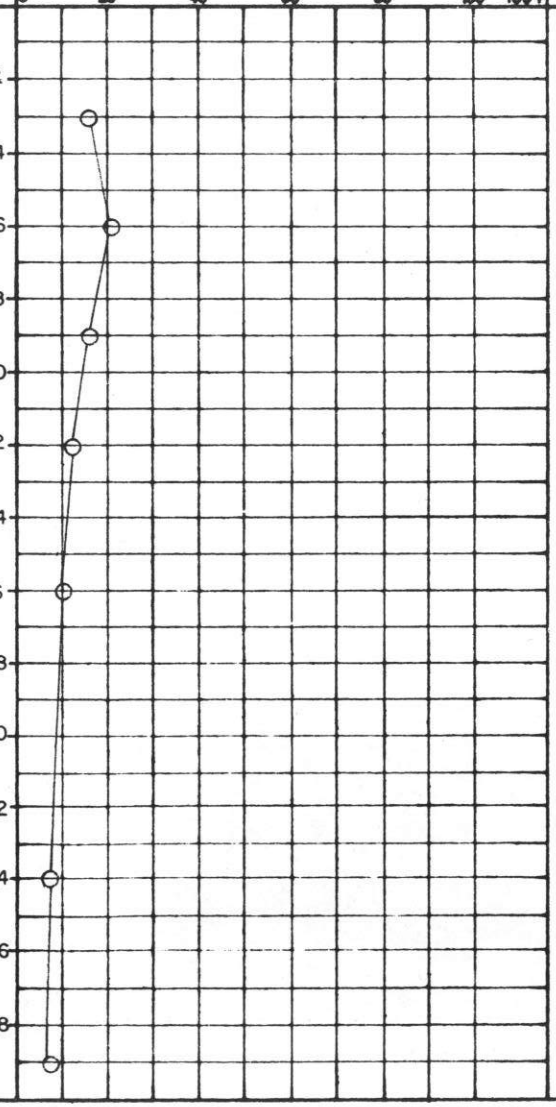
FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1889+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 4"	ELEV.

TEST HOLE 10

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1.2'		
2						CLAY		Low
4						-Silty		
6						Sandy		Ice
8					CL	Pebbles		
10						Low-med. plastic	F	
12					CI	— 10'		Vx
14						SHALE		Frozen
16						-Silty		
18						Soft		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	CLAY	SILT	SAND	GRAVEL
	%	%	%	%

DEPTH (FEET)	RELATIVE THAWED MOISTURE CONTENT
2	Moist
6	Wet
10	Moist
12	Damp
16	Humid
20	Humid
24	Humid
28	Humid

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 160?

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. | AIRPHOTO NO. | CHAINAGE. 1889+00 | OFFSET.

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

TEST HOLE 11

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 — 1.4'								
2					CL	CLAY -Silty Sandy Pebbles Low-med. plastic							Moist	
4														
6								Low Ice					Wet	
8							F							
10					CI								Moist	
12													Damp	
14								Vx						
16													Moist	
18														
20														
22						22'							Damp	
24						SHALE -Silty Soft		Frozen Nbn					Damp	
26														
28														
						30'							Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 1875+00 | OFFSET.

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

TEST HOLE 1

MILE 760

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 Med. plastic		
4								
6								Low
8					CI			
10							F	Ice
12						Shale fragments		
14						— 14'		
16						SHALE -Silty Soft		Vx
18								
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

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
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1875+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 760

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								
6					CL	Pebbles							Moist	
						Low-med. plastic								
8					CI			Low					Damp	
							F							
10								Ice					Damp	
						— 11'								
12						SHALE							Damp	
						-Silty								
14						Soft								
16								Vx					Damp	
18														
20													Damp	
22													Damp	
24						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1875+00	OFFSET.	TEST HOLE 3
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 760

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		High Ice					Wet	
2'								Vs						
					CL	CLAY -Silty Organic to 4' Low-med. plastic Silty sandy Pebbles							Damp	
					CI								Damp	
							F	Low					Damp	
11'						SHALE -Silty Soft								
								Ice					Damp	
								Vx					Damp	
25'						BOTTOM OF HOLE - 25'								

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

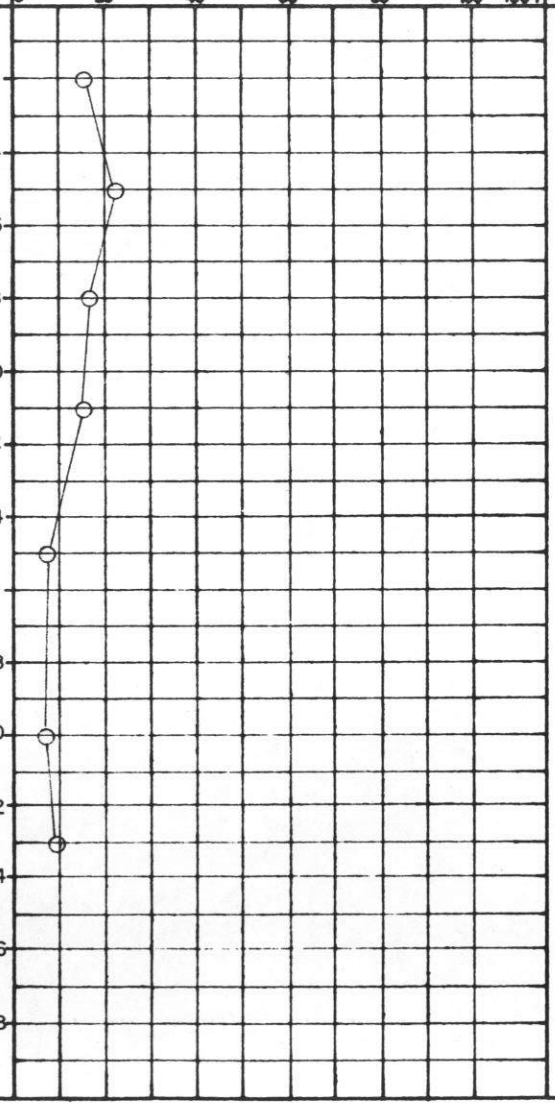
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1875+00	OFFSET.	TEST HOLE 4
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 760

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'	F	Moderate Ice Vc - Vr
2					CI	CLAY -Silty Sandy Pebbles Med. plastic		
4								
6								
8								Low Ice
10								
12						SHALE -Silty Soft 11'		
14								
16								
18								
20								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



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

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 1875+00 | OFFSET.

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

TEST HOLE 5

MILE 760

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 3"	F	Moderate Ice
2					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Vc - Vr
4								
6					CI			
8								
10						11'		
12						SHALE -Silty Soft		Low Ice
14								
16						Soft-med. hard		
18								
20								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

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

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

REMARKS

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 1875+00 | OFFSET.

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

TEST HOLE 6

MILE 760

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High Vs
						.5'		
2						CLAY		To
						-Silty		
4						Sandy		Moderate
						Pebbles		
6					CI	Med. plastic		Ice
								Vc - Vr
8							F	Vx
10								Low
						11'		
12						SHALE		Ice
						-Silty		
14						Soft		To
16						Soft-hard		Nil
18								Ice
20								Nbn
22								
24								
						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 %		
				Free Water	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1875+00	OFFSET.	TEST HOLE 7
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 760

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			
6					CI	Sandy Pebbles Med. plastic		Low	Moist
8									Damp
10							F		
12								Ice	Damp
14						— 14'			
16						SHALE -Silty Soft		Vx	Damp
18									
20						Sandstone fragments			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

DEPTH (FEET)	0	20	40	60	80	100	120	140	100+
0	40	60	80	100	120	140			

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

REMARKS

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1875+00	OFFSET.	TEST HOLE	8
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE	760

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Low
						.5'		
2						CLAY		Ice
						-Silty		
						Sandy		
4						Pebbles		Vx
					CI	Med. plastic		High Ice
6								Vs
8								
10							F	
						11'		
12						SHALE		Low
						-Silty		
14						Soft		
16								Ice
18								
20								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	40	60	80	100	120	140			

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

DS-14-5-74 b

BORROW PIT 161

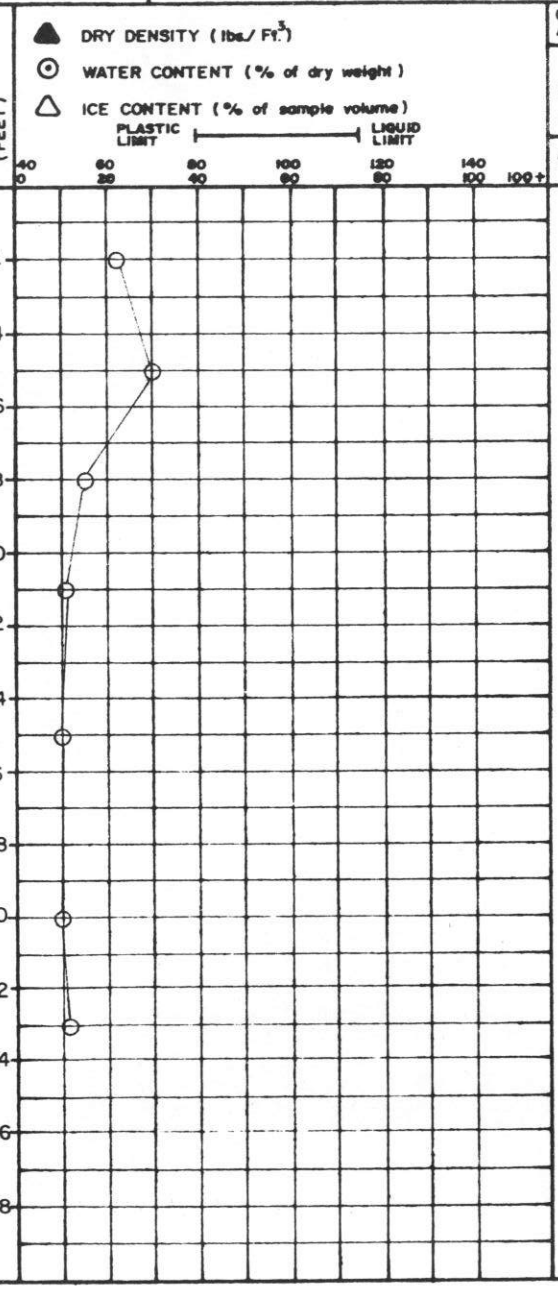
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1875+00	OFFSET.	TEST HOLE	9
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE	760

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate
						.5'		Vc - Vr
2						CLAY		Ice
4						-Silty		
						Sandy		High Ice
6						Pebbles		Vs
					CI	Med. plastic		
8							F	
10						10.5'		Low
12						SHALE		
						-Silty		
14						Soft		Ice
16								
18								Vx
20								
22								
24						25'		
26						BOTTOM OF HOLE - 25'		
28								



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

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 1875+00 | OFFSET.

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

TEST HOLE 10

MILE 760

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'	F	Moderate Ice
2					CI	CLAY -Silty Sandy Pebbles Med. plastic		Vc - Vr
4								
6								
8								Low
10						— 11'		
12						SHALE -Silty Soft		
14								
16								Ice
18								
20								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

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
0					Wet	
2						
4					Moist	
6						
8					Moist	
10					Damp	
12						
14					Damp	
16						
18						
20					Damp	
22						
24					Damp	
26						
28						

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

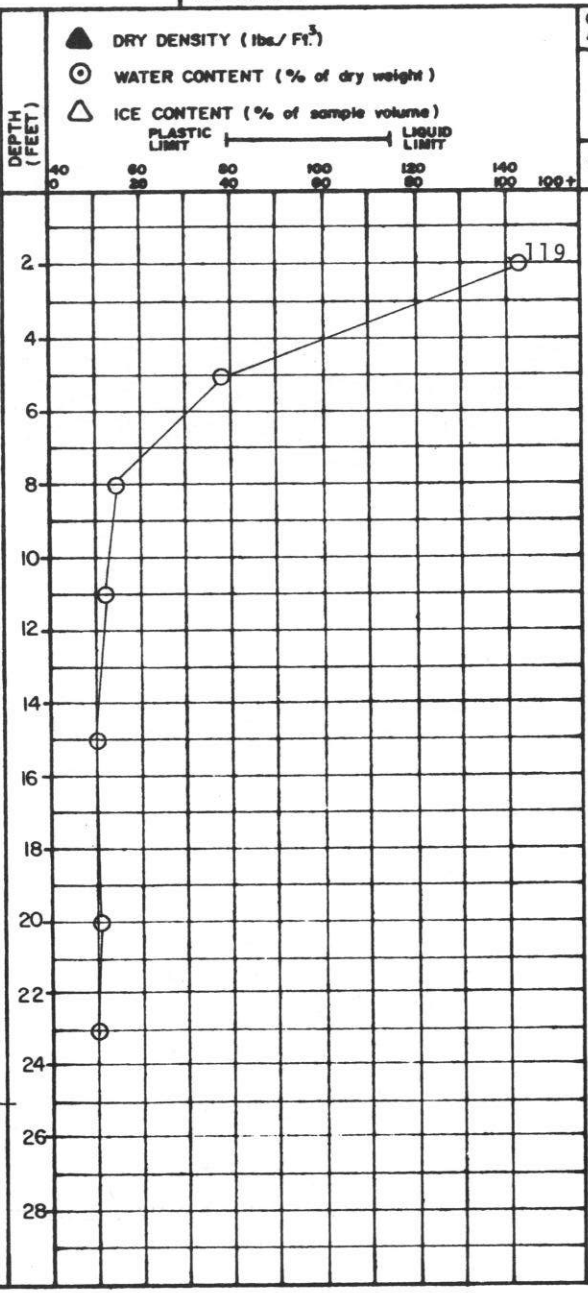
FIELD ENG. N. BURGESS	DATE DRILLED.	AIRPHOTO NO.	CHAINAGE. 1875+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 11

MILE 760

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		High					Free Water
2						2'							
4						CLAY -Silty Organic mat. to 4'		Ice					Free Water
6					CL	Silty sandy Pebbles		Vs					
8					CI	Low-med. plastic							Damp
10							F						Damp
12						11' SHALE -Silty Soft		Low					
14								Ice					Damp
16													
18								Vx					
20													Damp
22													Damp
24													
26						25' BOTTOM OF HOLE - 25'								
28													



DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

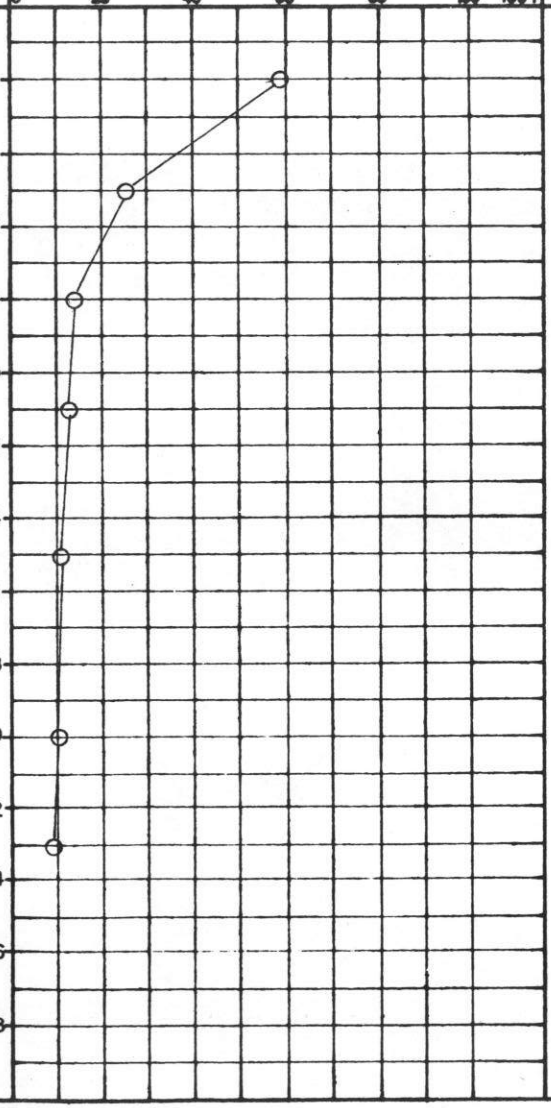
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1875+00	OFFSET.	TEST HOLE 12
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 760

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		Vs
2						CLAY		High To
4						-Silty		Moderate
						Sandy		
6						Pebbles		Ice
8					CI	Med. plastic	F	Vc - Vr
10								
						— 11'		
12						SHALE		
						-Silty		Low
14						Soft		
16								Ice
18								
20								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



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

DS-14-5-74 b

BORROW PIT 161

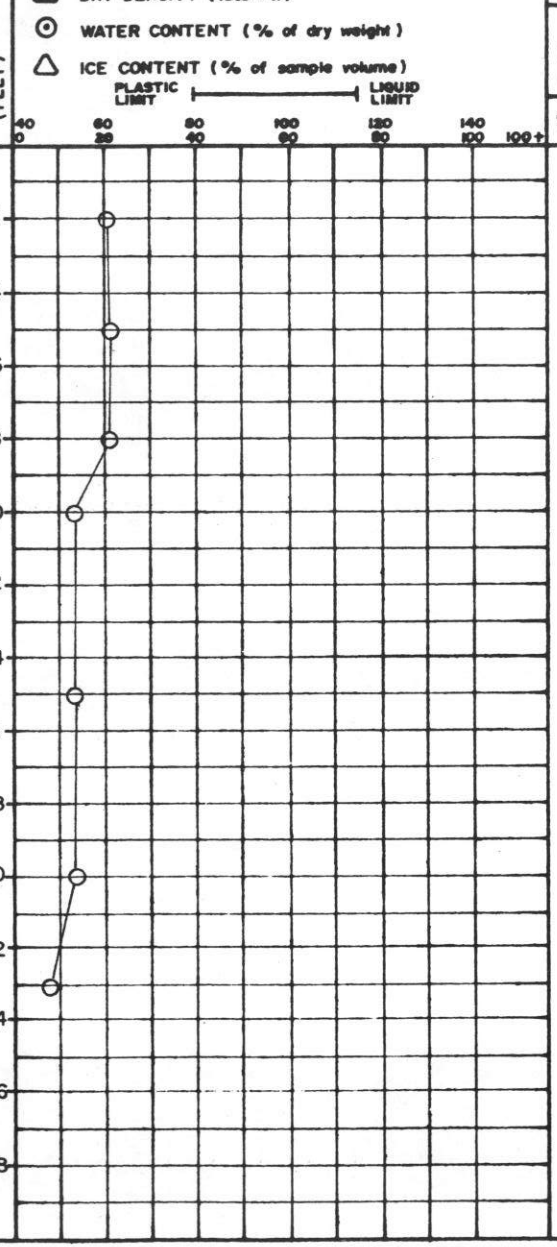
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1875+00	OFFSET.	TEST HOLE 13
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 760

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		Moderate	Wet
						.5'			
2						CLAY		Ice	
4						-Sandy Silty Pebbles Med. plastic			Wet
6					CI			Vc - Vr	
8									Wet
10							F		Moist
						11'			
12						SHALE -Silty Soft			
14								Low	
16								Ice	Moist
18									
20								Vx	Moist
22									Damp
24									
						25'			
26						BOTTOM OF HOLE - 25'			
28									



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

REMARKS

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1875+00	OFFSET.	TEST HOLE 14
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 760

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		High					Wet	
4					CI	-Sandy Silty Pebbles Med. plastic		Ice						FREE WATER
6								Vs						
8						Gravelly							Wet	
10							F							
						— 11'							Damp	
12						SHALE -Silty Soft		Low						
14														
16						Med. hard		Ice					Damp	
18														
20								Vx					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 60 80 100 120 140 199+
0 20 40 60 80 100

DS-14-5-74 b

BORROW PIT 161

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 1875+00 | OFFSET.

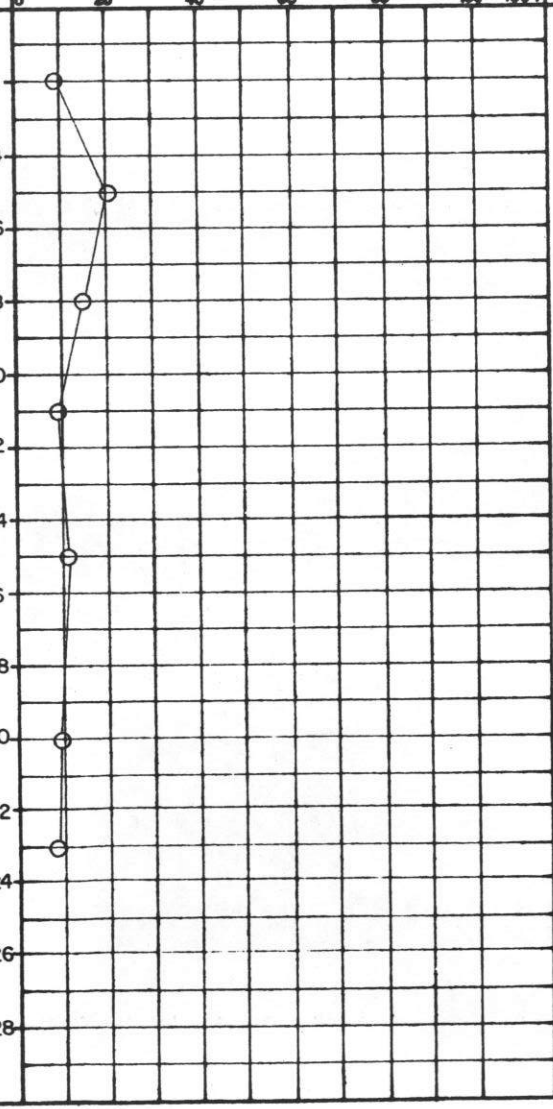
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 15

MILE 760

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		Ice
4						-Sandy		
6					CI	Silty		Vc - Vr
8						Gravelly		
10						Med. plastic	F	Low
12						Pebbles		Ice
14						11'		
16						SHALE		Vx
18						-Silty		
20						Soft		
22						Med. hard		
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	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 1

MILE 763

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						Clay - Sandy		Ice
4						- Silty		Vc - Vr
6						- Pebbles		
8					Cl	Med. Plastic		
10								
12								
14								
16						17'		
18						Shale - Soft		Low
20								Ice
22								VX
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET) 2 4 6 8 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 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.	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

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 19/374 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 2

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE 763

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 Ice						
2						Clay - Sandy - Silty Pebbles		VS					Free Water	
4								Moderate Ice						
6						Med. Plastic		Vc - Vr					Wet	
8					Cl								Damp	
10								Low Ice						
12							F						Damp	
14								VX						
16													Damp	
18														
20						Gravelly							Damp	
22														
24													Damp	
26						BOTTOM OF HOLE 25'								
28														

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 3

MILE 763

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)	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	.5'		Moderate						
2						Clay - Sandy		Ice					Wet	
						Silty								
4								Vc - Vr						
						Pebbles								
6						Med. Plastic							Moist	
8								Low					Damp	
								Ice						
10					Cl									
12													Damp	
							F							
14								VX					Damp	
16														
18														
20													Damp	
22														
24													Damp	
						BOTTOM OF HOLE 25'								
26														
28														

8074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

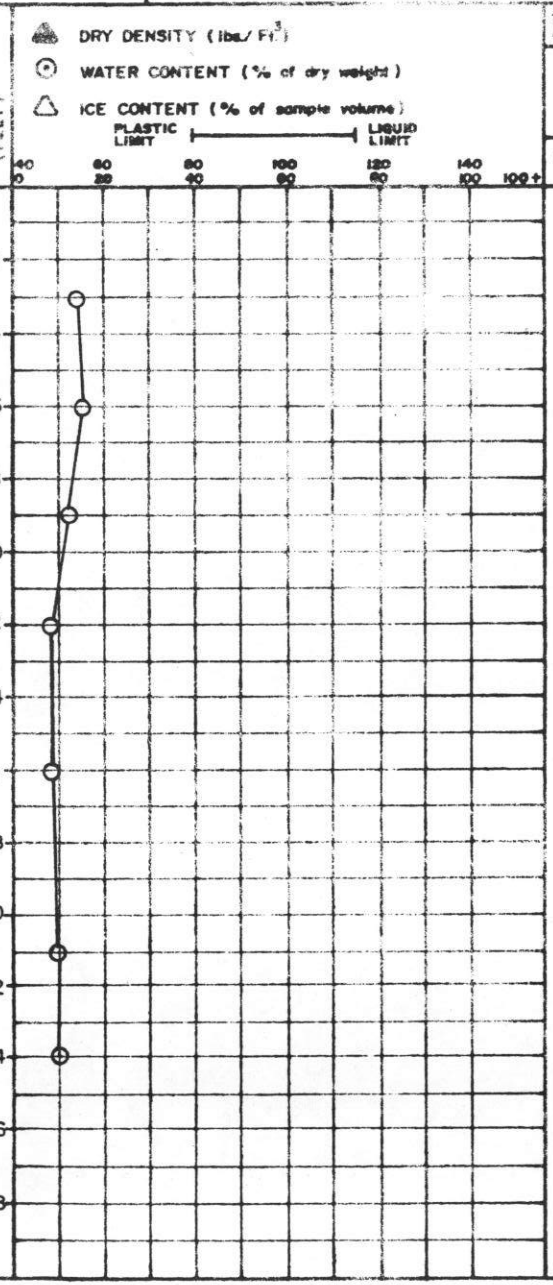
FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 4

MILE 763

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 - Silty							Moist	
4						Sandy		Low						
						Pebbles		Ice						
6						Low - Med. Plastic							Moist	
8					CL								Damp	
10					Cl									
12							F	VX					Damp	
14														
16													Damp	
18														
20													Damp	
22														
24						BOTTOM OF HOLE 25'							Damp	
26														
28														



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DS-14-5-74 b

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 5

MILE 763

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		High Ice						
2						Clay - Sandy							Free Water	
4						- Silty		Vs						
6						- Pebbles .							Moist	
8					Cl	Low-Med. Plastic		Low Ice					Damp	
10					Cl									
12							F	VX					Moist	
14														
16													Moist	
18														
20													Moist	
22														
24						BOTTOM OF HOLE 25'							Moist	
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

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 6

MILE 763

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 - Sandy							Moist	
4						- Silty		Low						
6						- Pebbles							Moist	
8						Med. Plastic	F	Ice						
10					Cl								Damp	
12								VX					Damp	
14														
16													Damp	
18														
20													Damp	
22														
24						BOTTOM OF HOLE 25'							Damp	
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 0 20 40 60 80 100 199+

8074

DS-14-5-74 b

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

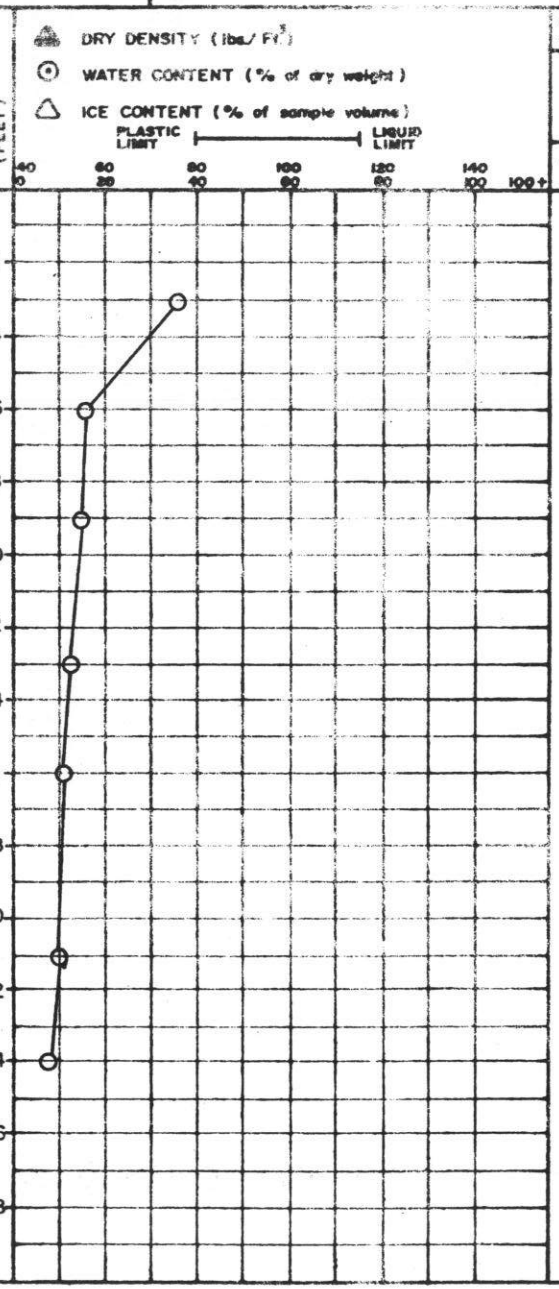
DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.

OFFSET. ELEV. TEST HOLE 7 MILE 763

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						Clay - Sandy		
6						- Silty		Vs
8						- Pebbles		Low
10						Med. Plastic		
12					Cl		F	Ice
14								
16								VX
18								
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								



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 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

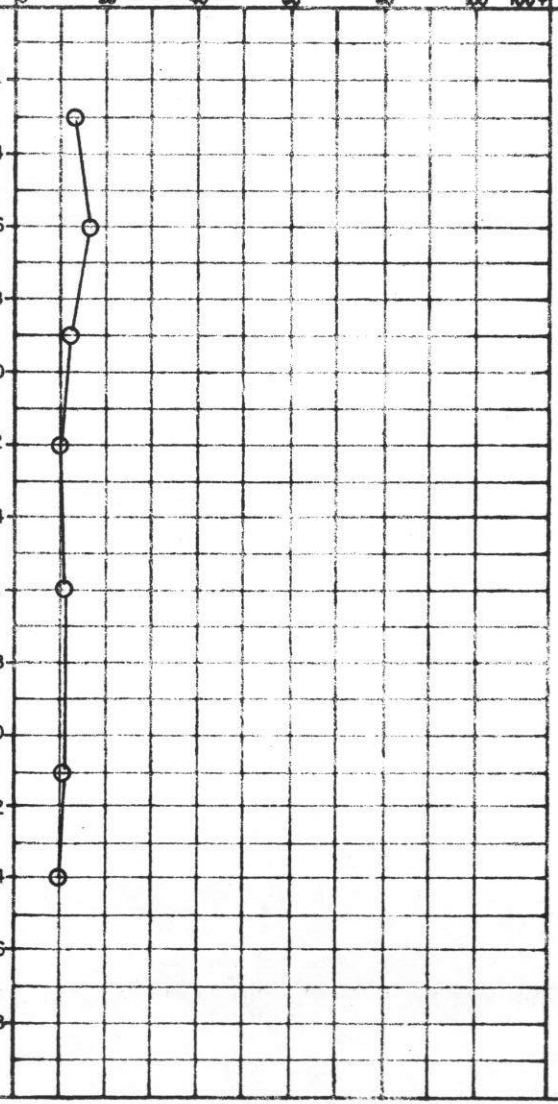
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 8

MILE 763

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							Moist	
4						- Silty		Low						
6						- Pebbles							Wet	
8					Cl	Med. Plastic		Ice						
10							F	VX					Damp	
12													Damp	
14														
16													Damp	
18														
20													Damp	
22														
24						BOTTOM OF HOLE 25'							Damp	
26														
28														

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

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

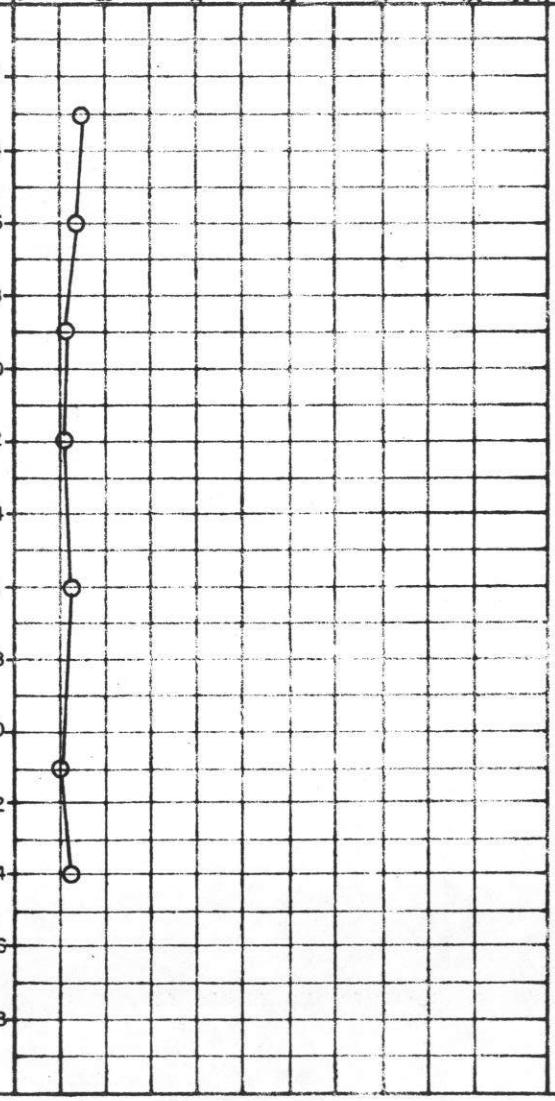
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 9

MILE 763

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 1'								
2						Clay - Sandy			MOIST					
4						- Silty								
6						- Pebbles		Low	Moist					
8						Med. Plastic								
10					Cl		F	Ice	Damp					
12									Damp					
14								VX						
16									Damp					
18														
20														
22									Damp					
24						BOTTOM OF HOLE 25'			Damp					
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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DS-14-5-74 b

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 10

MILE 763

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						
2						Clay - Organic to 4'							Moist	
4						- Sandy		Vc - Vr						
6						- Silty							Moist	
8						- Pebbles								
10						Med. Plastic		Low Ice					Damp	
12					Cl		F						Damp	
14								VX						
16													Damp	
18														
20													Damp	
22														
24													Damp	
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+

B074

DS-14-5-74 b

BORROW PIT 162

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 11

MILE 763

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				S		Clay - Sandy		Ice
						- Silty		
4						- Pebbles		Vc - Vr
6						Med. Plastic		
8							F	Low
10					Cl			
12								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

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
				Wet
				Damp
				Damp
				Damp
				Damp
				Damp

REMARKS

8074

DS-14-5-74 b

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

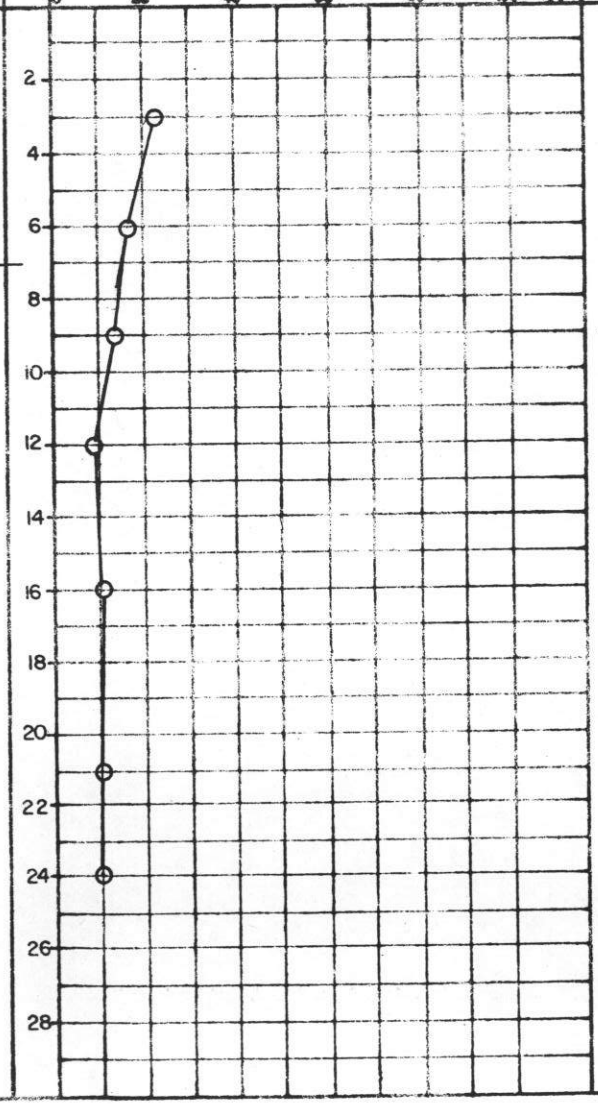
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 12

MILE 763

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 Ice
2						Clay - Silty		
4						- Sandy		Vc - Vr
6						- Pebbles		
8						Low-Med. Plastic		
10					CL			Low
12					Cl			Ice
14								
16								VX
18								
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



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

B074

DS-14-5-74 b

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 13

MILE 763

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						Clay - Sandy		
6						- Silty		Vc - Vr
8					CL	- Pebbles Low-Med. Plastic		
10								Low Ice
12					Cl			
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
0 20 40 60 80 100 100+

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

8074

DS-14-5-74 b

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 14

MILE 763

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		
4						- Silty		Low
6						- Pebbles		Ice
8					CL	Low-Med. Plastic		
10							F	VX
12					Cl			
14								
16								
18								
20								
22								
24						BOTTOM OF HOLE 25'		Vc - Vr
26								
28								

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	180+
2	40	60	80	100	120	140	160			

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

REMARKS

B074

DS-14-5-74 b

BORROW PIT 162

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG.N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 15

MILE 763

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							Wet	
4						- Silty		Low						
6						- Pebbles							Moist	
8						Med. Plastic		Ice						
10					Cl								Humid	Hole in Bag
12							F	VX					Damp	
14														
16													Damp	
18														
20													Damp	
22														
24						BOTTOM OF HOLE 25'							Damp	
26														
28														

DRY DENSITY (lbs./Ft³)
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+

B074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 2081+70 | OFFSET.

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

TEST HOLE 1

MILE 763.5

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 1'		Moderate Ice					Moist	
4						Clay - Sandy - Silty - Pebbles Low - Med. Plastic							Sat.	
6								Vc - Vr						
8					CL								Wet	
10					Cl		F	Low Ice					Moist	
12														
14													Moist	
16								VX						
18														
20													Moist	
22														
24						Gravelly							Moist	
26														
28						PEBBLES BOTTOM OF HOLE 29'							Moist	

DRY DENSITY (lbs./Ft³)
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+

8074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 2081+70	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

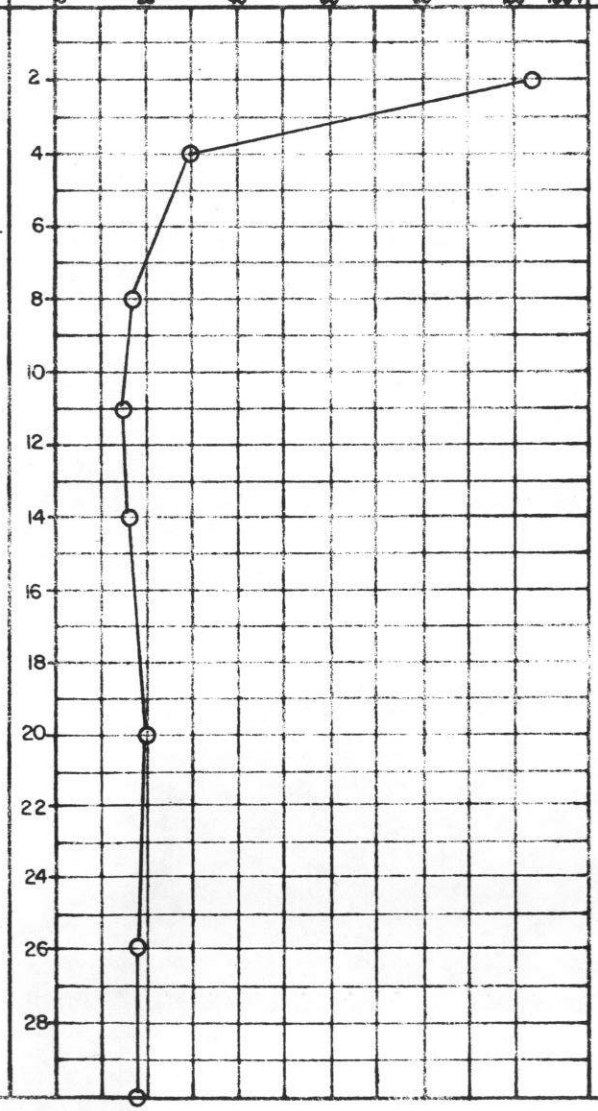
TEST HOLE 2

MILE 763.5

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 - Sandy		Ice
6						- Silty		Vs
8					CL	- Pebbles Low-Med. Plastic		Low
10								To
12					Cl			Moderate
14								
16								Ice
18								Vc
20								
22								Vc - Vr
24								
26								
28						Gravelly 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 %	
				Free Water
				Sat.
				Wet
				Moist
				Moist
				Moist
				Wet

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. 19/3/74 | AIRPHOTO NO. | CHAINAGE 2081+70 | OFFSET.

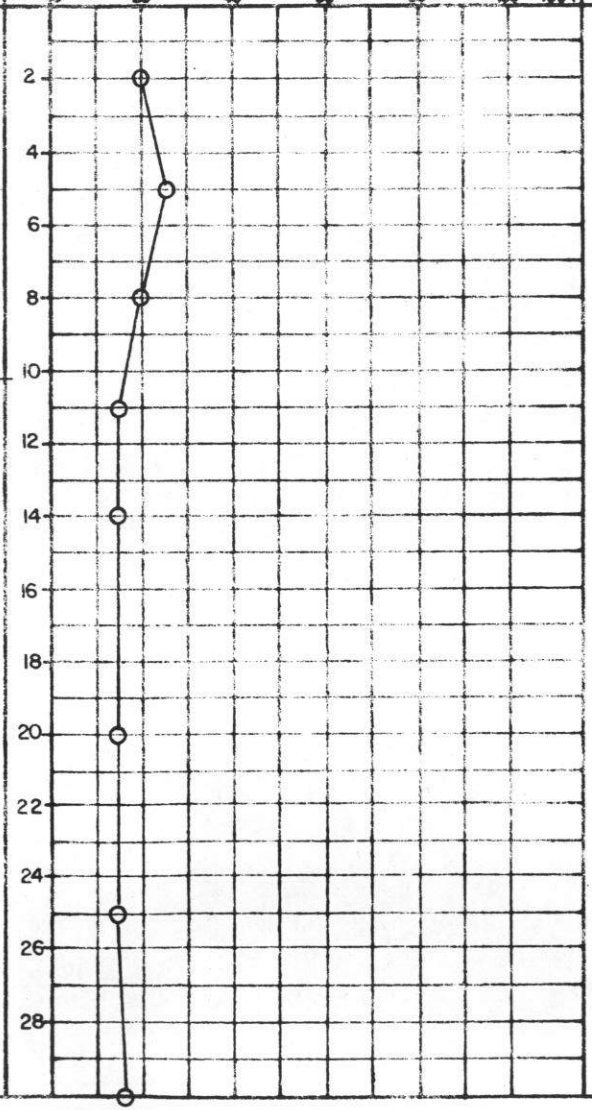
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE 763.5

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'		Moderate					Moist	
2						Clay - Sandy								
4						- Silty		To					Wet	
6						- Pebbles		Ice						
8					Cl	Med. Plastic		Vc - Vr					Wet	
10							F	Low					Moist	
12														
14													Moist	
16								Ice						
18														
20								VX					Moist	
22														
24													Moist	
26														
28						BOTTOM OF HOLE 29'							Moist	

DRY DENSITY (lbs/ Ft³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



8074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 2081+70 | OFFSET.

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

TEST HOLE 4

MILE 763.5

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'		Moderate Ice Vc - Vr					Wet	
2						Clay - Sandy - Silty - PEBBLES Med. Plastic								
4													Wet	
6														
8													Moist	
10					Cl		F	Low					Moist	
12														
14								Ice					Moist	
16														
18														
20								VX					Wet	
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+

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 2081+70	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE 763.5

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													Moist	
4						Clay - Sandy		Low						
6						- Silty							Moist	
8					Cl	- Pebbles								
10						Med. Plastic		Ice					Moist	
12							F							
14														
16														
18								VX						
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+
0 20 40 60 80 100

8074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 2081+70 | OFFSET.

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

TEST HOLE 6

MILE 763.5

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'		High To Moderate Ice					Moist	
2						Clay - Sandy - Org To 4' - Silty - Pebbles								
4													Free Water	
6						Gravelly Med. Plastic		Vs						
8								Vc - Vr					Sat.	
10					Cl	Pebbles	F	Low					Moist	
12														
14													Moist	
16								Ice						
18														
20								VX					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
0 20 40 60 80 100 100+

8074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. N. BURGESS | DATE DRILLED. | AIRPHOTO NO. | CHAINAGE. 2081+70 | OFFSET.

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

TEST HOLE 7

MILE 763.5

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		Moderate
						- Silty		
4					CL	Low Plastic Gravelly		Ice
6								Vc - Vr
8								
10						Med. Plastic	F	Low
						Pebbles		
12								Ice
14					Cl	Gravelly		
16								
18								VX
20								
22								
24						Pebbles		
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+

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

8074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 2081+70	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE 763.5

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'		High Ice Vs
2						Clay - Sandy - Silty		
4					CL	Low-Med. Plastic - Gravelly		Moderate Vc - Vr
6								
8						Sandy Silty		To
10					Cl		F	
12								Low
14								
16								Ice
18								
20						Pebbles		
22								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	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Free Water	
				Sat.	
				Wet	
				Moist	
				Moist	
				Moist	
				Moist	
				Moist	

8074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 2081+70 | OFFSET.

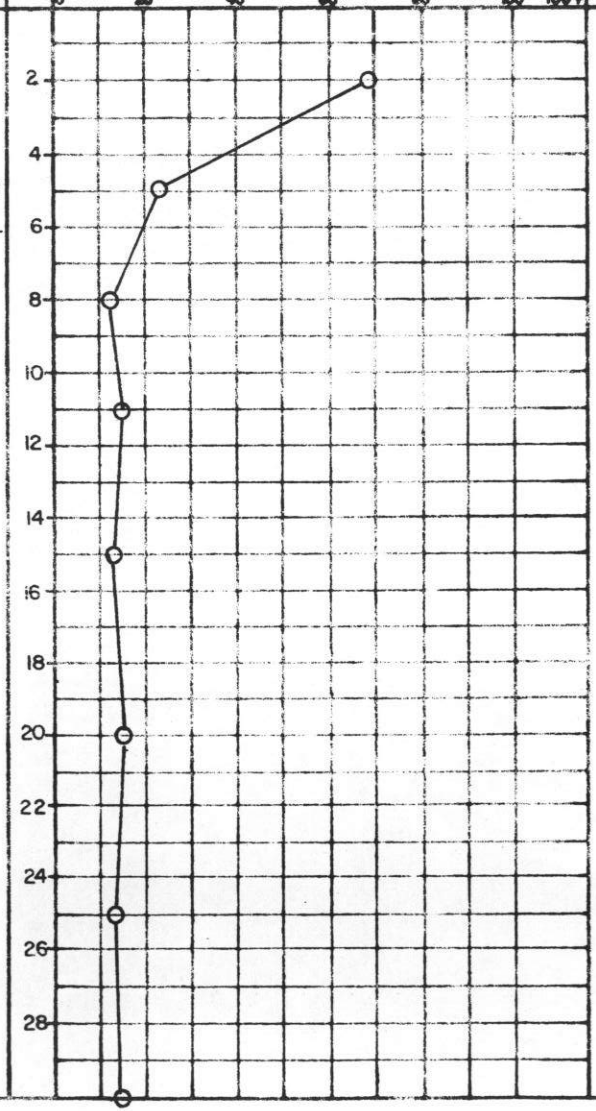
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 9

MILE 763.5

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 1.5'		High Vs Ice					Free Water	
4					CL	Clay - Sandy - Silty - Gravelly Low-Med. Plastic		High Ice Vs					Free Water	
6					Cl									
8													Wet	
10						Pebbles		Low					Moist	
12														
14								Ice					Moist	
16														
18								VX						
20						20'							Moist	
22					SM	Sand - Silty None Plastic								
24						23' Clay - Sandy								
26					Cl	Silty - Gravelly							Moist	
28						Pebbles BOTTOM OF HOLE 29'							Moist	

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



B074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE 2081+70 | OFFSET.

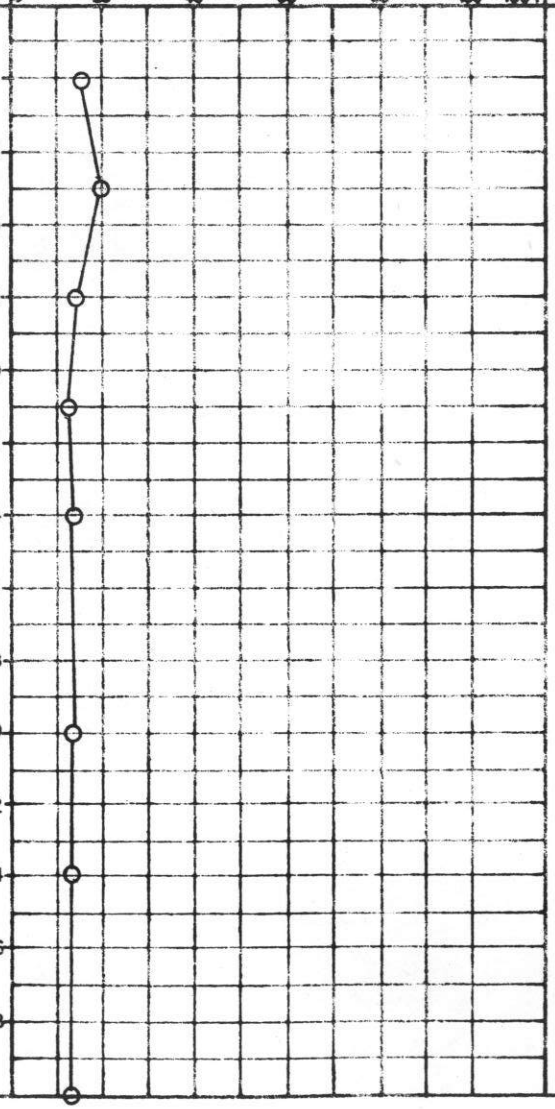
TECH. PRONYCH | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 10

MILE 763.5

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 1.5'		Moderate Ice					Wet	
4						Clay - Sandy - Silty - Pebbles		Vc - Vr					Wet	
6						Med. Plastic								
8					Cl		F	Low Ice					Moist	
10													Moist	
12														
14								VX					Moist	
16														
18													Moist	
20														
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 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+



REMARKS

B074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 2081+70	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 11

MILE 763.5

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 1.5'		Moderate Ice					Moist	
4					CL	Clay - Sandy - Silty Low-Med. Plastic Gravelly		Vc - Vr					Sat.	
6								Low						
8					Cl	Pebbles							Wet	
10							F						Moist	
12								Ice						
14													Moist	
16								VX						
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 80 100 120 140 109+

B074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 2081+70 | OFFSET.

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

TEST HOLE 12

MILE 763.5

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

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

REMARKS

8074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

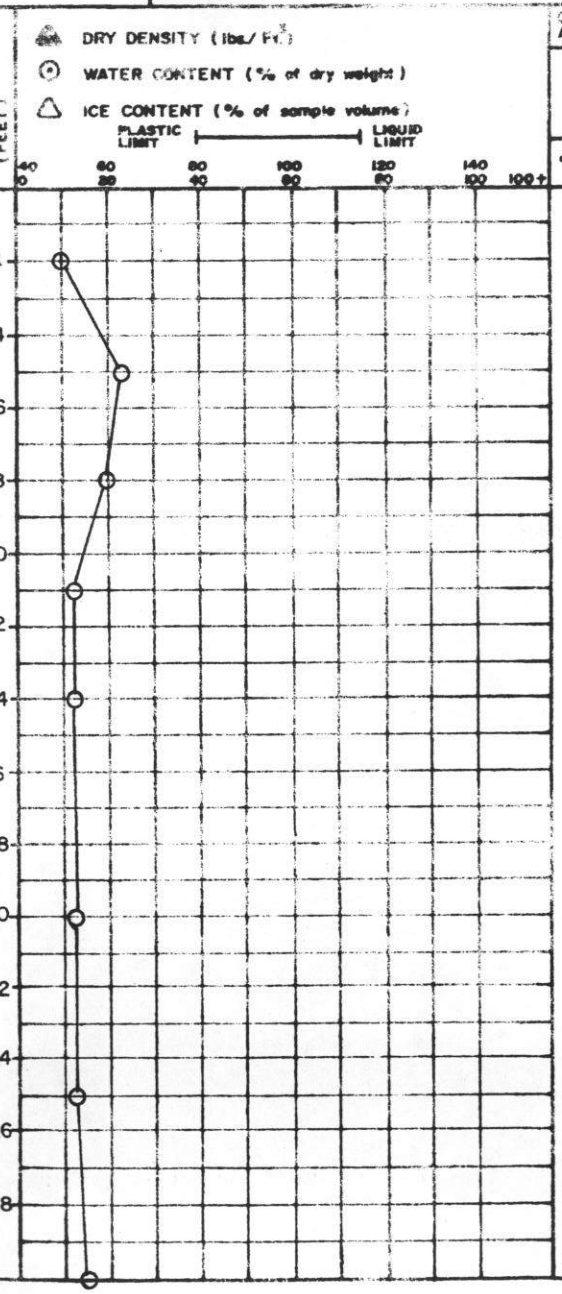
FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 2081+70 | OFFSET.

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

TEST HOLE 13

MILE 763.5

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'								
2						Clay - Sandy Silty Gravelly		Moderate					Moist	
4					CL	Low Plastic Pebbles		Ice					Sat.	
6						Low-Med. Plastic								
8							F	Vc - Vr					Wet	
10					Cl	Gravelly							Wet	
12								Low					Moist	
14						Pebbles		Ice						
16														
18														
20								VX					Moist	
22														
24													Moist	
26														
28														
						BOTTOM OF HOLE 29'							Moist	



8074

DS-14-5-74 b

BORROW PIT 163

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 2081+70	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 14

MILE 763.5

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'		Moderate Ice
4						Clay - Sandy - Silty - Pebbles		
6					CL	Low-Med. Plastic		Vc - Vr
8					Cl		F	
10								Low Ice
12								
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

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
					Moist	
					Sat.	
					Wet	
					Moist	
					Moist	
					Moist	
					Moist	

8074

DS-14-5-74 b

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED 20/3/74 | AIRPHOTO NO. | CHAINAGE 1980+00 | OFFSET.

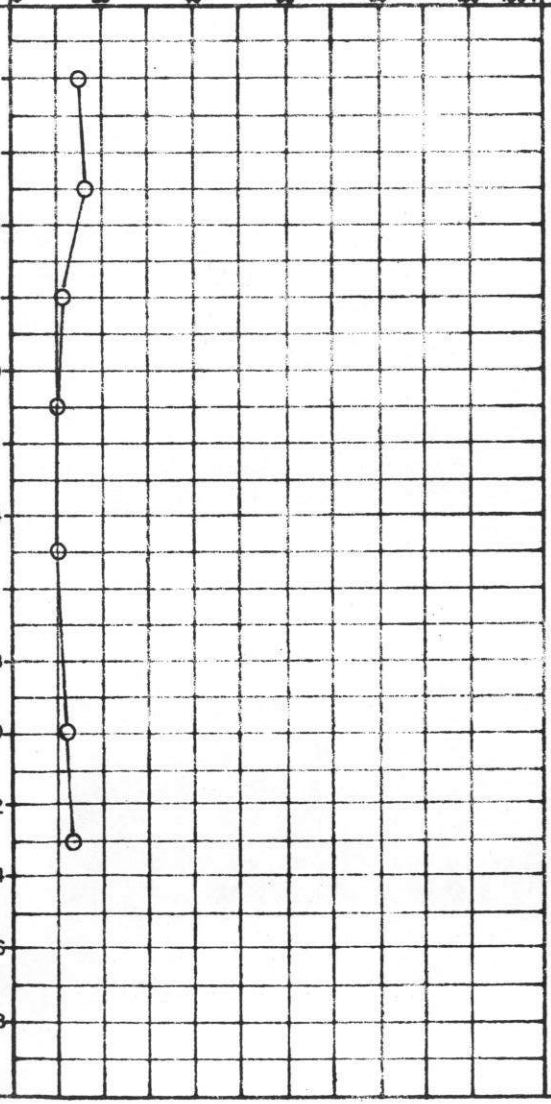
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE 762

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'							Moist	
4						Clay - Silty - Sandy - Pebbles		Low					Moist	
6					CL	Low-Med. Plastic	F							
8													Damp	
10								Ice					Damp	
12					Cl									
14													Damp	
16														
18								VX						
20													Damp	
22													Damp	
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+



8074

DS-14-5-74 b

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 20/3/74 | AIRPHOTO NO. | CHAINAGE. 1980+00 | OFFSET.

TECH. BAINE | RIG. MAYHEW #1 | 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
					Pt	PEAT 1'							Moist	
2						Clay - Silty								
4						- Sandy							Wet	
6						- Pebbles Low-Med. Plastic		Low						
8					CL			Ice					Moist	
10							F						Moist	
12					Cl									
14								VX					Damp	
16														
18														
20													Damp	
22													Damp	
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

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1980+00	OFFSET.	TEST HOLE 3
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 762

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 Ice Vc - Vr					Moist	
4						Clay - Silty - Sandy - Pebbles							Wet	
6						Low-Med. Plastic								
8					CL								Moist	
10							F						Damp	
12					Cl			Low Ice						
14						Gravelly							Damp	
16														
18														
20						Pebbles		VX					Moist	
22													Moist	
24						BOTTOM OF HOLE 25'								
26														
28														

80/74

DS-14-5-74 b

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE. 1980+00 | OFFSET.

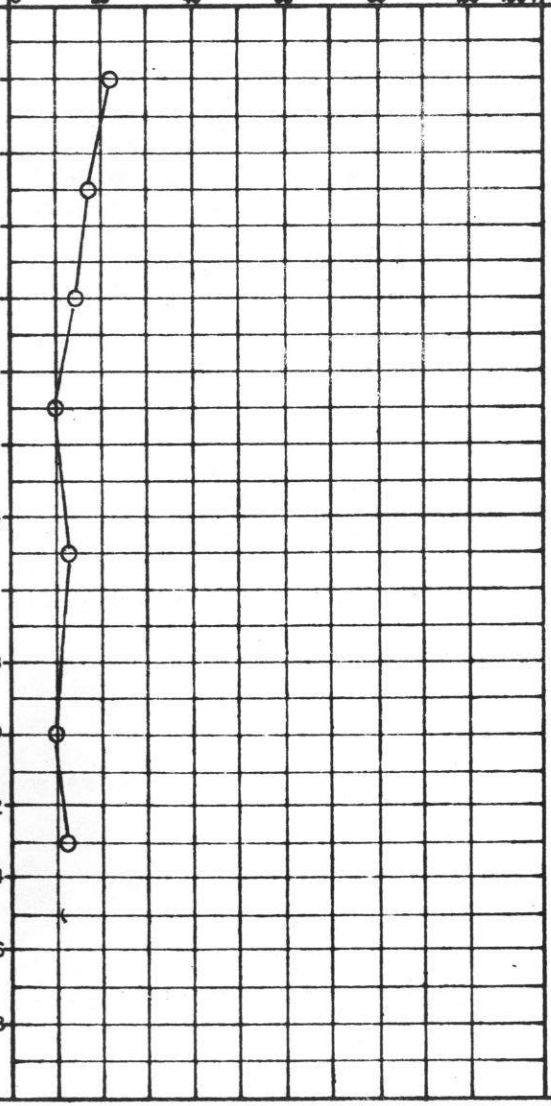
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 4

MILE 762

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 - Silty		Moderate Ice					WET	
4					CL	- Sandy - Pebbles		Vc - Vr					Moist	
6						Low-Med. Plastic								
8						Med. Plastic		Low					Moist	
10													Damp	
12								Ice						
14					Cl								Moist	
16														
18								VX						
20													Damp	
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



8074

DS-14-5-74 b

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 19/3/74	AIRPHOTO NO.	CHAINAGE. 1980+00	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE 762

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 Pebbles		Ice
4						Low-Med. Plastic		VS
6					CL			
8								Low
10					Cl		F	
12								Ice
14								
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
0 20 30 40 60 80 100 120 140 160 180+

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

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED 19/3/74 | AIRPHOTO NO. | CHAINAGE 1980+00 | OFFSET.

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

TEST HOLE 6

MILE 762

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 - Sandy - Pebbles		Ice
4								
6					CL	Low-Med. Plastic		Vc - Vr
8							F	
10					Cl			Low
12								
14								Ice
16					CL			
18								VX
20								
22					Cl			
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	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
					Wet	
					Sat.	
					Moist	
					Damp	
					Damp	
					Damp	
					Damp	

8074

DS-14-5-74 b

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

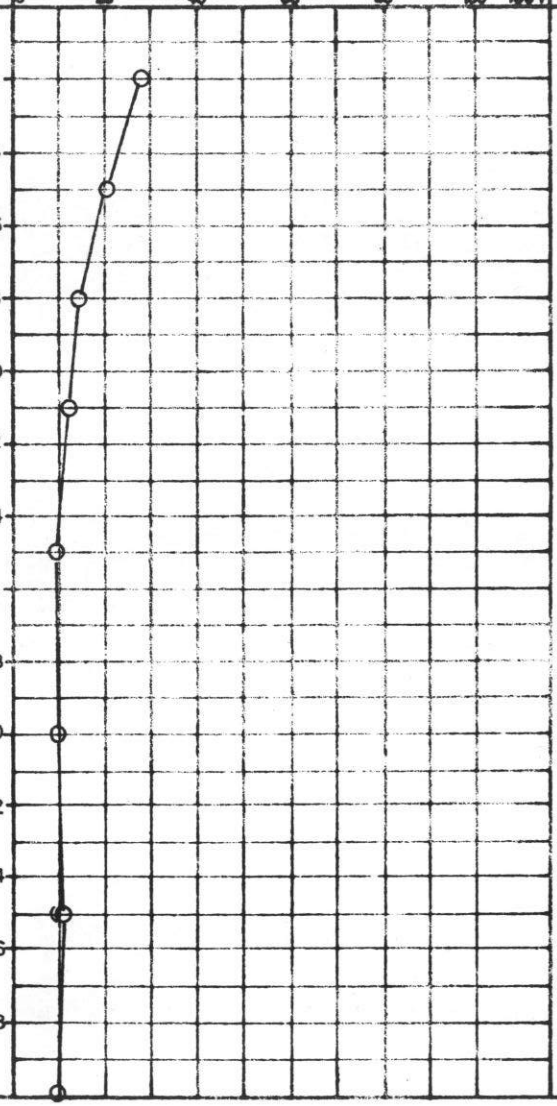
FIELD ENG. N. BURGESS	DATE DRILLED. 20/3/74	AIRPHOTO NO.	CHAINAGE. 1980+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 7

MILE 762

REMARKS

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
4						Clay - Silty		Ice
6						- Sandy		
8					CL	- Pebbles . Low-Med. Plastic		Vc - Vr
10								
12					Cl		F	Low
14								Ice
16								
18								
20								VX
22								
24								
26								
28						BOTTOM OF HOLE 29'		



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
				Sat.
				Wet
				Moist
				Moist
				Damp
				Damp
				Damp
				Damp

8074

DS-14-5-74 b

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 20/3/74	AIRPHOTO NO.	CHAINAGE. 1980+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE 762

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'		Moderate
2						Caly - Silty		Ice
4						- Sandy		
6						- Pebbles		Vc - Vr
8					CL	Low-Med. Plastic	F	Low
10								
12					Cl			
14								Ice
16						Boulders or Cobbles @ 17'		
18								
20								Vx
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DEPTH (FEET)

DRY DENSITY (lbs./ft³)
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	
				Sat.	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Moist	

B074

DS-14-5-74 b

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

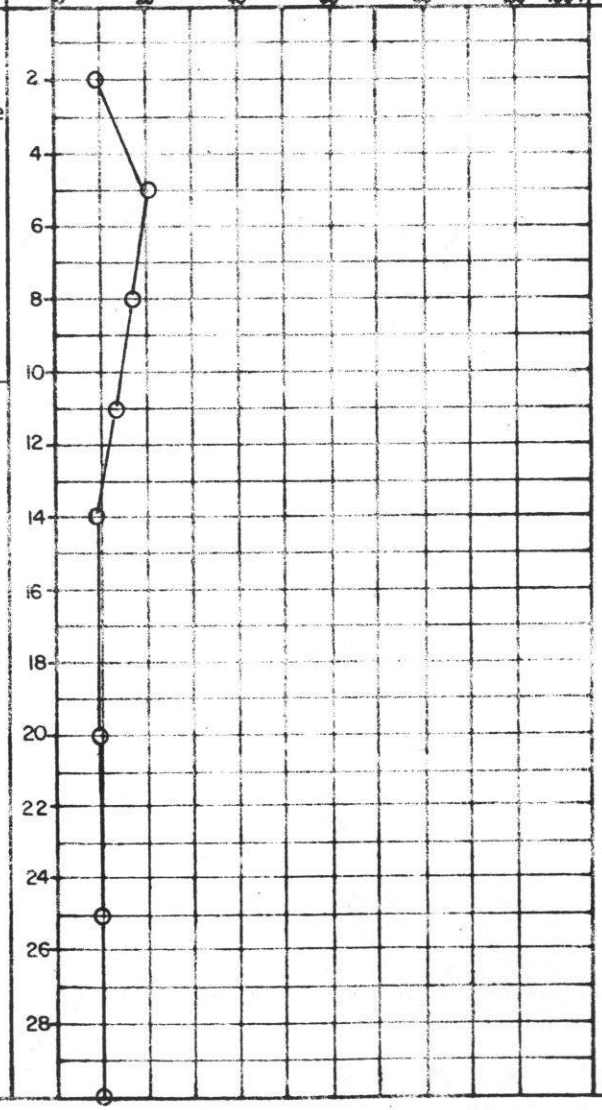
FIELD ENG. N. BURGESS	DATE DRILLED. 20/3/74	AIRPHOTO NO.	CHAINAGE. 1980+00	OFFSET
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 9

MILE 762

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 - Silty - Sandy - Pebbles Low-Med. Plastic		Moderate Ice
6								
8					CL			Vc - Vr
10								
12					Cl			Low Ice
14								
16								
18								
20								VX
22								
24								
26								
28						BOTTOM OF HOLE 29'		

DRY DENSITY (lbs./Ft³)
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.	
				Wet	
				Moist	
				Damp	
				Damp	
				Moist	
				Moist	

8074

DS-14-5-74 b

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 19/3/74 | AIRPHOTO NO. | CHAINAGE 1980+00 | OFFSET.

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

TEST HOLE 10

MILE 762

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						
2						Clay - Silty Sandy Pebbles		Vc - Vr					Sat.	
4					CL	Gravelly		Ice To High Ice					Free Water	
6														
8					Cl	Pebbles	F	Vs					Wet	
10						Low-Med. Plastic							Moist	
12								Low						
14						14'							Damp	
16					Sc	Sand - Gravelly - Clayey		Ice						
18						17'								
20						Clay - Silty Sandy Pebbles Shale (Hard) & Sandstone Frags.		VX					Damp	
22					CL									
24					Cl	Pebbles only							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
40 60 80 100 120 140 100+

REMARKS

8074

DS-14-5-74 b

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 20/3/74 | AIRPHOTO NO. | CHAINAGE 1980+00 | OFFSET.

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

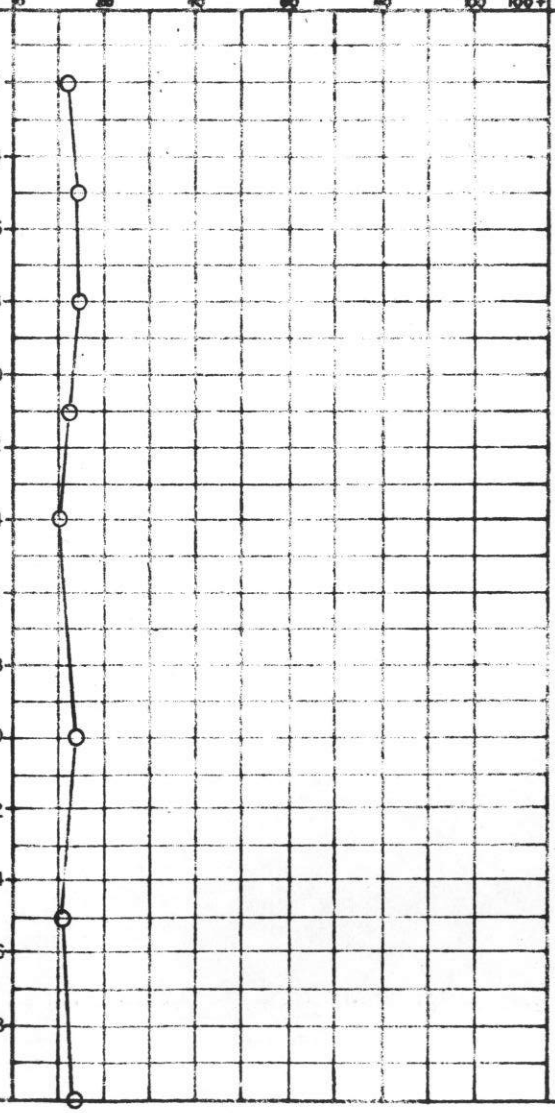
TEST HOLE 11

MILE 762

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						Caly - Sandy - Silty							Moist	
4						- Pebbles							Moist	
6					CL	Low-Med. Plastic		Low						
8													Moist	
10					Cl		F	Ice					Damp	
12														
14													Damp	
16								Vx						
18														
20													Moist	
22														
24													Damp	
26														
28						BOTTOM OF HOLE 29'							Damp	

DRY DENSITY (lbs./ft³) ⊙ WATER CONTENT (% of dry weight) △ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT



B074

DS-14-5-74 b

BORROW PIT 164

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 20/3/74	AIRPHOTO NO.	CHAINAGE 1980+00	OFFSET.
TECH. PRONYCH	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 12

MILE 762

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

DRY DENSITY (lbs./Ft³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28
40	20														
60	30														
80	40														
100	60														
120	80														
140	100														
100+															

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Moist
4					Wet
8					Moist
10					Damp
12					Damp
20					Damp
24					Moist
28					Moist

REMARKS

8074

DS-14-5-74 b

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1755+00 | OFFSET.

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

TEST HOLE 1

MILE 757.6

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 Vs
						Clay - Sandy		To
4						- Silty		Moderate
						- Pebbles		
6					CL	Low-Med. Plastic		Ice
								Vc - Vr
8								
10							F	
12					Cl			Low
14						Rock Chips		Ice
16								
18								
20								VX
22								
24						Shale - Sandstone		
						Limestone		
26						Mix		
						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	160+
	40	60	80	100	120	140	160	180	200+

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

REMARKS

8074

DS-14-5-74 b

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1755+00 | OFFSET.

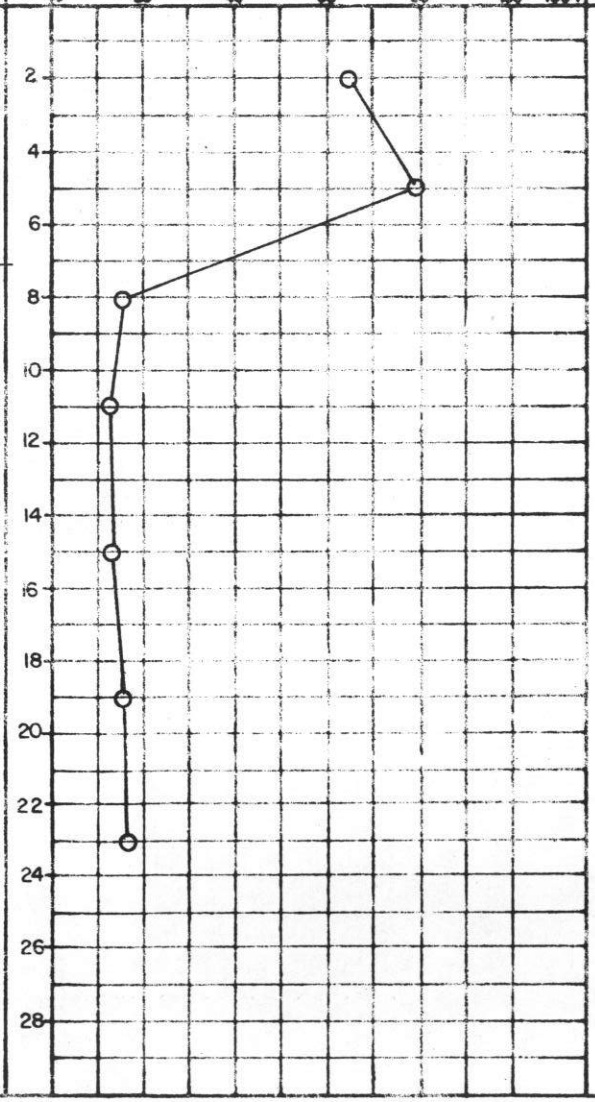
TECH. WEBER | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE 757.6

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'		High Ice					Free Water	
4						Clay - Silty - Sandy - Pebbles								
6						Low-Med. Plastic		VS					Free Water	
8					CL								Wet	
10								Low					Moist	
12					Cl		F							
14								Ice					Moist	
16														
18													Moist	
20								VX						
22													Moist	
24						BOTTOM OF HOLE 25'								
26														
28														

DRY DENSITY (lbs./Ft³)
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 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENGN. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1755+00 | OFFSET.

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

TEST HOLE 3

MILE 757.6

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'		Vc - Vr					Wet	
4						Clay - Sandy - Silty - Pebbles		Moderate Ice					Wet	
6					CL	Low-Med. Plastic								
8							F						Moist	
10					Cl								Wet	
12														
14								Low					Damp	
16														
18								Ice						
20													Damp	
22								VX					Moist	
24						Sand - Silty BOTTOM OF HOLE 25'									
26														
28														

DRY DENSITY (lbs./ft³) ⊙ 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

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1755+00 | OFFSET.

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

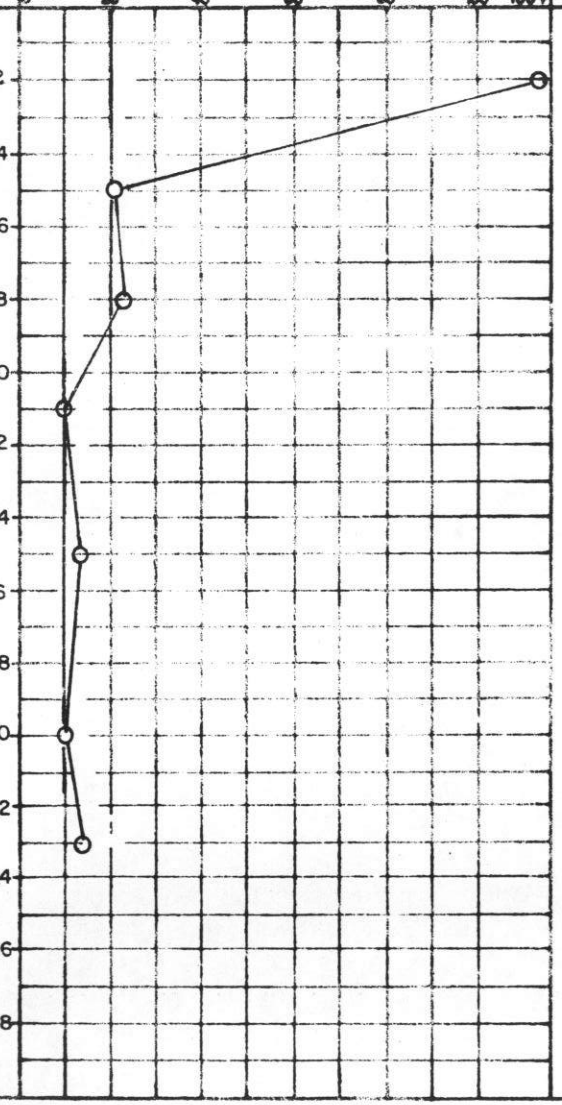
TEST HOLE 4

MILE 757.6

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
2					Pt	PEAT 2'		High Ice Vs					Free Water
4					CL	Clay - Sandy Silty Pebbles Low-Med. Plastic							Wet
6								Moderate To					
8													Wet
10													
12					Cl			Low					Damp
14													
16													Damp
18					CL			Ice					
20													Damp
22								Vc - Vr					
24						BOTTOM OF HOLE 25'		VX					Damp
26													
28													

DRY DENSITY (lbs./Ft³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT



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DS-14-5-74 b

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED 29/3/74 | AIRPHOTO NO. | CHAINAGE 1755+00 | OFFSET

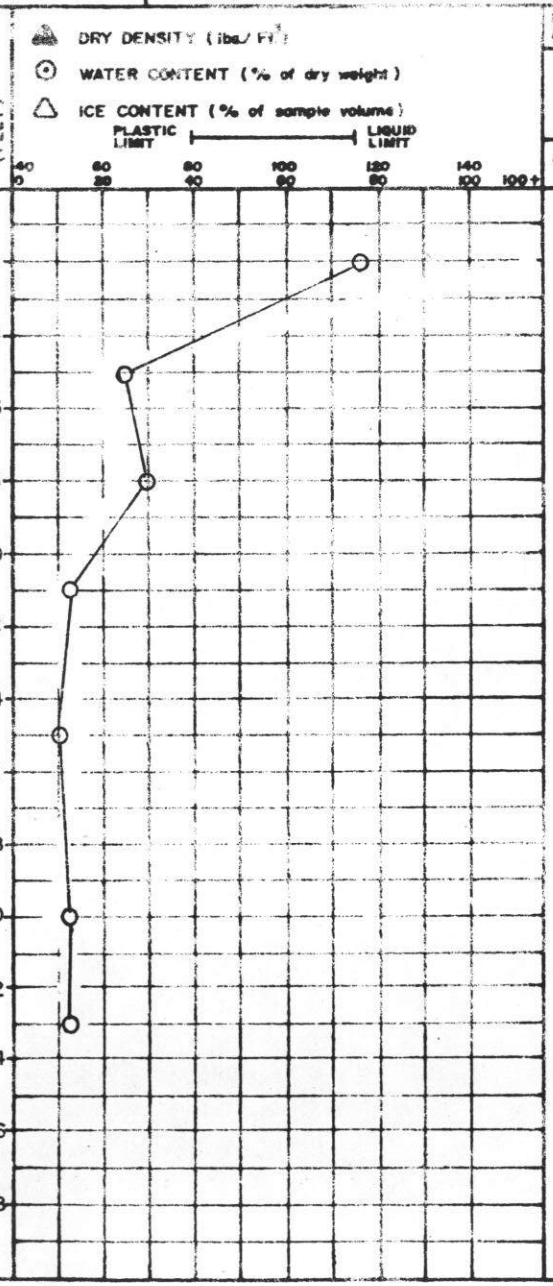
TECH. WEBER | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 5

MILE 757.6

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 1.5'		High					Free Water
2						Clay - SAndy		To					
4						- Silty		Vs					Wet
6						- Pebbles		Moderate					
8					CL	Low-Med. Plastic		Ice					Sat.
10							F	Vc - Vr					Moist
12					Cl								
14								Low					Damp
16													
18								Ice					
20													Moist
22								VX					
24						BOTTOM OF HOLE 25'							Moist
26													
28													



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DS-14-5-74 b

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED 29/3/74	AIRPHOTO NO.	CHAINAGE 1755+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 6

MILE 757.6

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 Vs
4						Clay - Sandy - Org. to 4'		To
6						- Silty		Moderate
8						- Pebbles		Vc-VrIce
10					CL	Low-Med. Plastic	F	Low
12					Cl			
14								Ice
16								
18								VX
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

DRY DENSITY (lbs./Ft³)
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
				Wet
				Moist
				Moist
				Moist
				Damp
				Damp

REMARKS

8074

DS-14-5-74 b

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1755+00	OFFSET.
TECH. WEBER	RIG. RIG MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 7

MILE 757.6

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 Vs
						Clay - Sandy		To
4						- Silty	F	Moderate
						- Pebbles		
6						Low-Med. Plastic		Ice
								Vc - Vr
8					CL			
10								
12					Cl			Low
14								
16								Ice
18							F	
20								Vx
22								
24						BOTTOM OF HOLE 25'		
26								
28								

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+

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

REMARKS

8074

DS-14-5-74 b

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

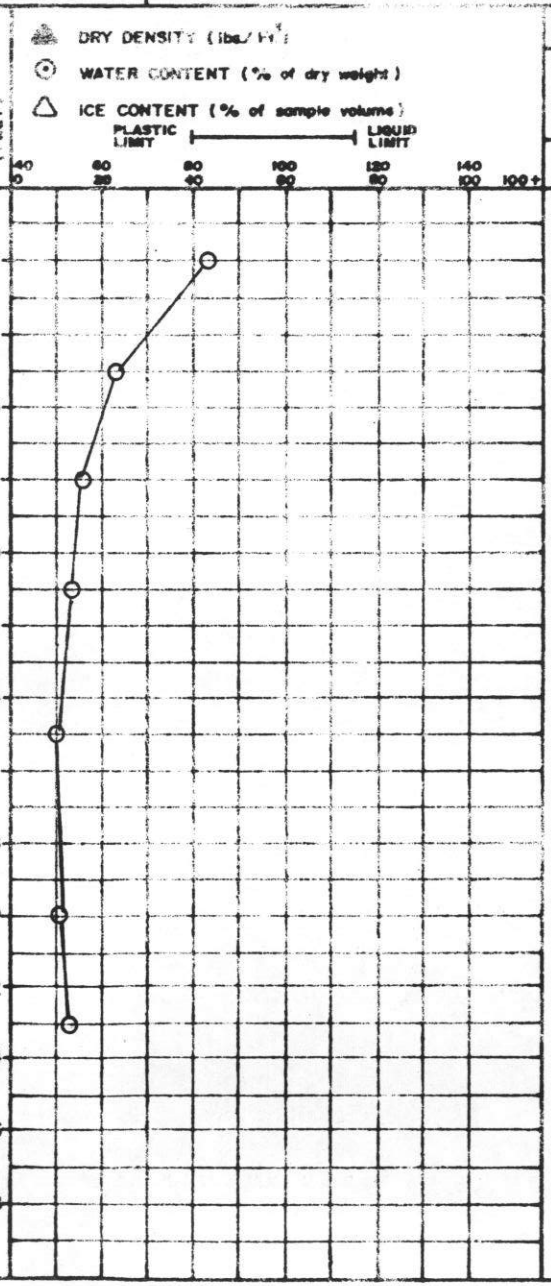
FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1755+00 | OFFSET.

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

TEST HOLE 8

MILE 757.6

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'		High Vs					Free Water	
4						Clay - Sandy		To						
6						- Silty		Moderate					Wet	
8					CL	- Pebbles Low-Med. Plastic		Ice Vc - Vr					Moist	
10							F							
12					Cl			Low					Moist	
14								Ice					Damp	
16														
18								VX						
20													Damp	
22													Damp	
24						BOTTOM OF HOLE 25'								
26														
28														



B074

DS-14-5-74 b

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1755+00 | OFFSET.

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

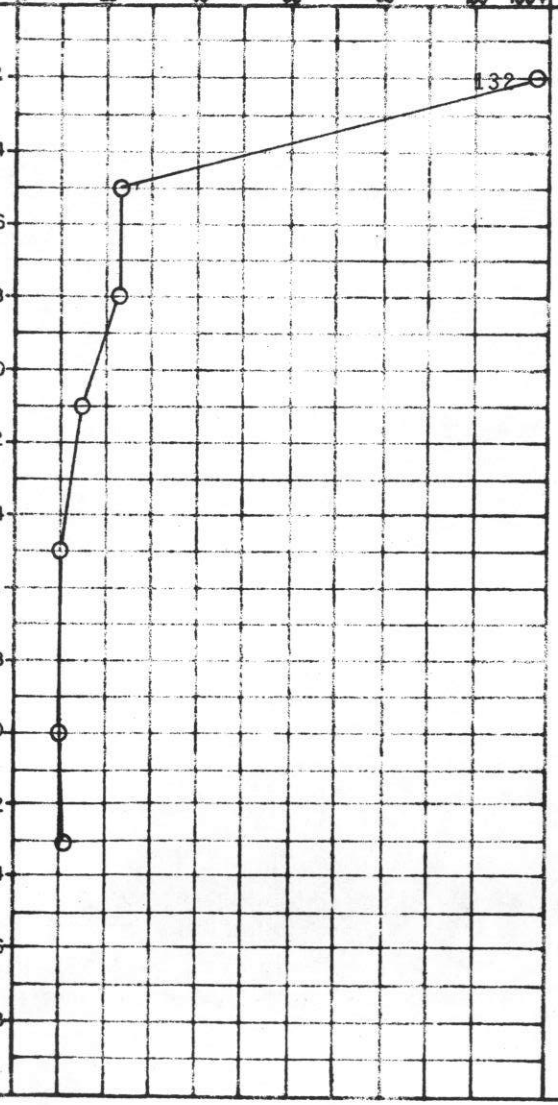
TEST HOLE 9

MILE 757.6

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
2					PT	PEAT 2'		High Ice					Free Water
4						Clay - Sandy Silty PEBBLES		Vs					
6					CL	Low-Med. Plastic		Moderate Ice					Wet
8													Wet
10								Vc - Vr					
12					Cl		F	VX					Moist
14								Low					
16													Moist
18													
20													Damp
22								Ice					Damp
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



B074

DS-14-5-74 b

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1755+00 | OFFSET.

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

TEST HOLE 10

MILE 757.6

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						Clay - Sandy - Silty - Pebbles		Vs
6					CL	Low-oed. Plastic		Moderate Ice
8								
10					Cl			
12								
14								Vc - Vr
16								
18								
20								Low Ice
22								
24						BOTTOM OF HOLE 25'		VX
26								
28								

DEPTH (FEET)

DRY DENSITY (lbs./ FT³)

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	
				Wet	
				Wet	
				Wet	
				Moist	
				Moist	

8074

DS-14-5-74 b

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

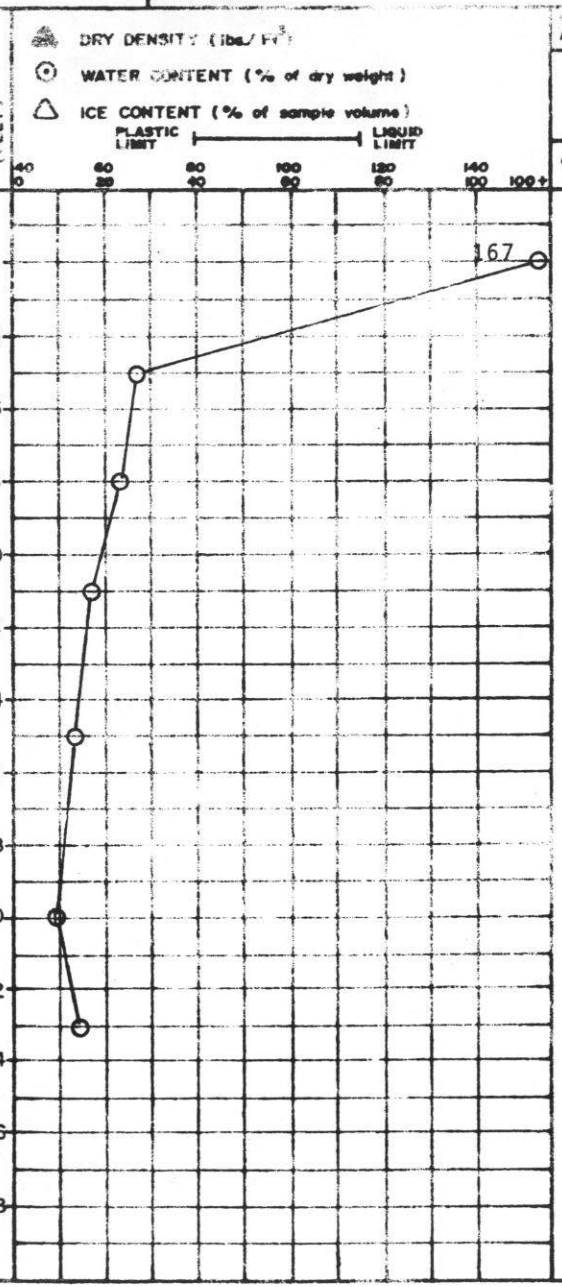
FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1755+00 | OFFSET.

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

TEST HOLE 11

MILE 757.6

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		
4						- Silty		Ice
6						- Pebbles		
8					CL	Low-Med. Plastic		Vs
10								Vc - Vr
12					Cl		F	Moderate
14								To
16								Low
18								
20								Ice
22								VX
24						BOTTOM OF HOLE 25'		
26								
28								



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

8074

DS-14-5-74 b

BORROW PIT 165

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

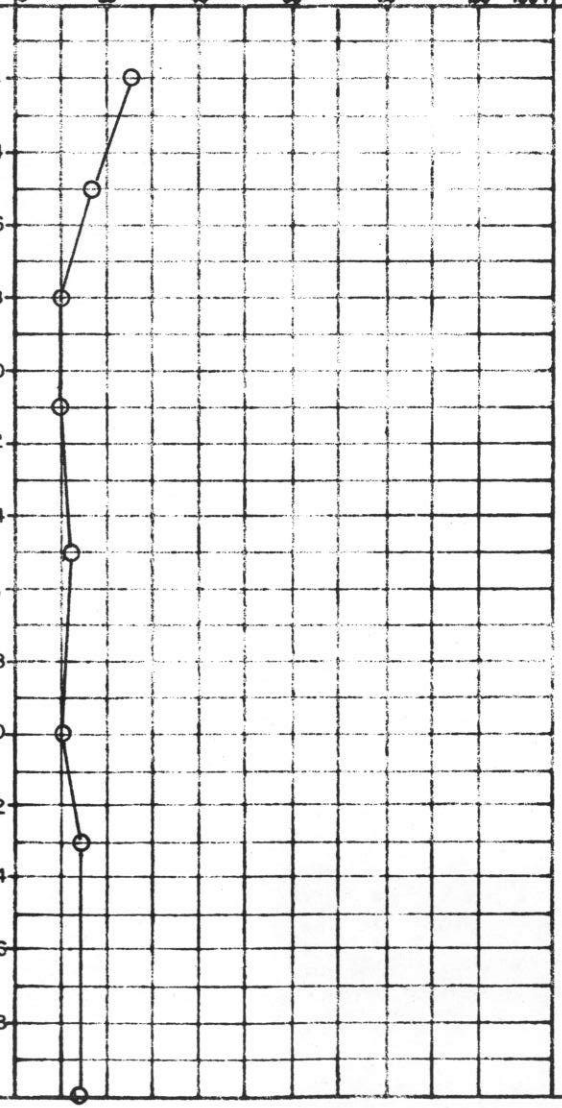
FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1755+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 12

MILE 757.6

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 - Sandy		
6						- Silty		Vs
8					CL	- Pebbles Low-Med. Plastic		Low
10					Cl		F	
12								
14								Ice
16								
18								
20								VX
22								
24								
26								
28						BOTTOM OF HOLE 30'		

DRY DENSITY (lbs/Ft³)
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	
				Moist	
				Moist	
				Moist	
				Damp	

8074

DS-14-5-74 b

BORROW PIT 166

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1685+00	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE 756.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2.5'		High
4						Clay - Sandy - Org. to 4'		Ice
6						- Silty		Vs
8					CL	- Pebbles Low-Med. Plastic	F	Low
10								
12					Cl			
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 %		
				Wet	
				Wet	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	

B074

DS-14-5-74 b

BORROW PIT 166

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1685+00	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 756.4

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 Pebbles		Low					Moist
4													Wet
6						Low-Med. Plastic							
8					CL			Ice					Moist
10							F						Damp
12					Cl			VX					
14													Damp
16													
18													
20													Damp
22													Damp
24						BOTTOM OF HOLE 25'							
26													
28													

B074

DS-14-5-74 b

BORROW PIT 166

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1685+00 | OFFSET.

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

TEST HOLE 3

MILE 756.4

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 - Sandy		Moderate
4						- Silty		Ice
6						- Pebbles		
						Low-Med. Plastic		
8					CL		F	
10								
12					Cl			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)	0	20	40	60	80	100	120	140	160+
2	40	60	80	100	120	140	160+		

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

REMARKS

8074

DS-14-5-74 b

BORROW PIT 166

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1685+00	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 756.4

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		
4						- Silty		
6						- Pebbles		
					CL	Low-Med. Plastic		Low
8							F	
10					Cl			
12								Ice
14								
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 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	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

8074

DS-14-5-74 b

BORROW PIT 166

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1685+00 | OFFSET.

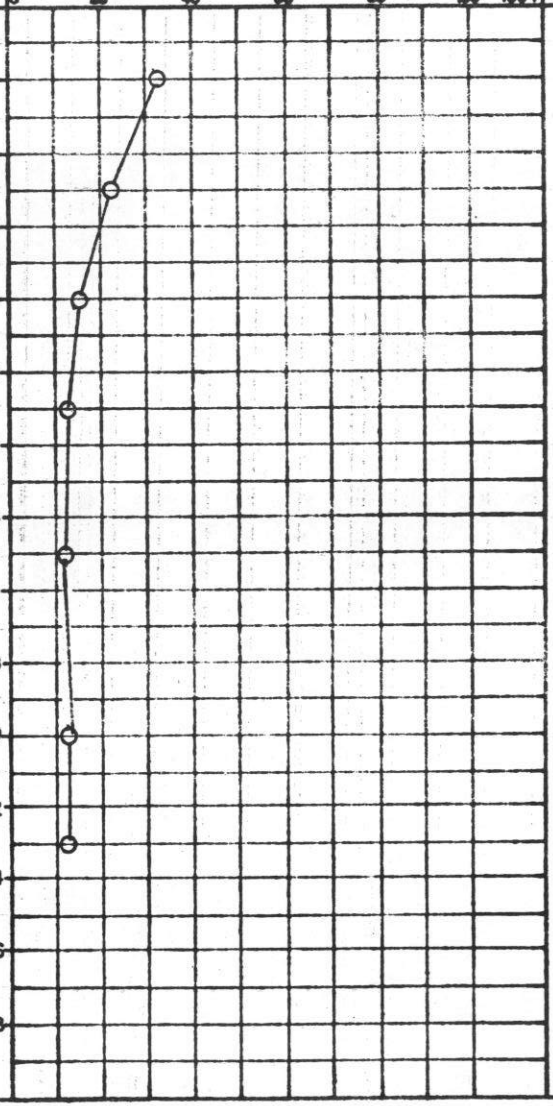
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 5

MILE 756.4

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
2						Clay - Sandy		
4						- Silty		Moderate Ice
6						- Pebbles		Vc - Vr
8					CL	Low-Med. Plastic		
10					Cl		F	
12								
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				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

3074

DS-14-5-74 b

BORROW PIT 167

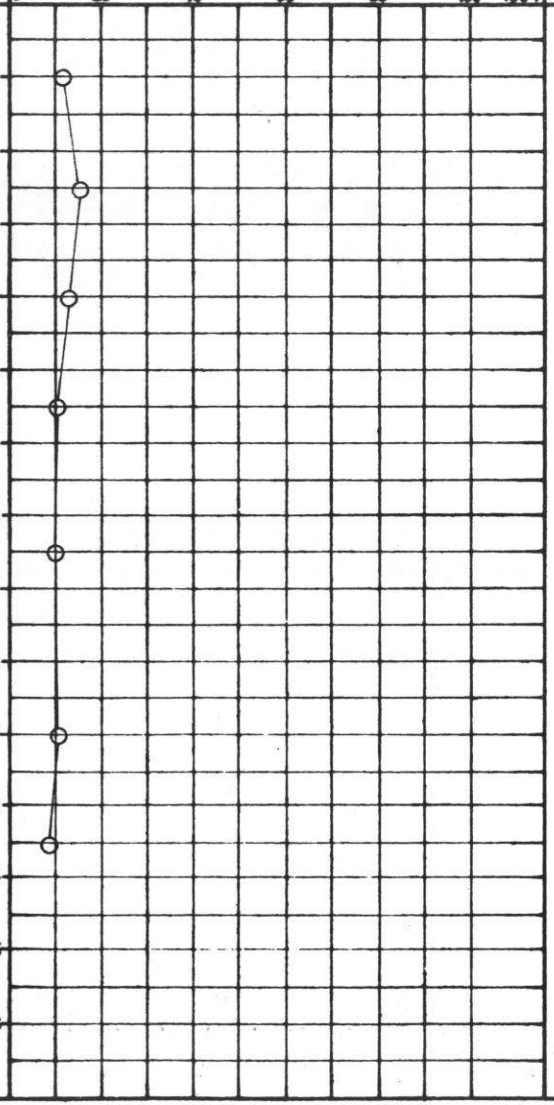
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.	TEST HOLE 1
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 754.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Low
						2.5'		
4					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		Vx
6								
8					CI			To
10							F	Nil
12								
14						14'		
16						SHALE -Siltstone Sandstone Friable		Ice
18								Nbn
20								
22								
24								
						25'		
26						BOTTOM OF HOLE - 25'		
28								



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

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.	TEST HOLE 2
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 754.8

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'							Damp	
4					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		Low					Moist	
6					CI			Vx						
8							F	To					Damp	
10														
12								Nil					Damp	
14						— 15'								
16						SHALE-SILTSTONE- SANDSTONE -Soft		Ice					Damp	
18														
20								Nbn					Damp	
22													Damp	
24														
26						— 25'								
28						BOTTOM OF HOLE - 25'								

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 3

MILE 754.8

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		Low
4								
6					CL			Vx
8								
10					CI		F	To
12								Nil
14								
16								
17'								Ice
18								
20								Nbn
22						SHALE-SILTSTONE- SANDSTONE		
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+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
6					Moist	
8					Damp	
10					Damp	
16					Damp	
20					Damp	
22					Damp	

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.	TEST HOLE 3A
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 754.8

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'		Low							
2						CLAY			2					Moist	
4						-Silty		Ice	4						
						Sandy									
6					CL	Pebbles			6					Moist	
						Low-med. plastic		Vx							
8									8					Moist	
					CI										
10							F		10					Damp	
12								Nil	12						
14									14						
16								Ice	16					Damp	
						17'									
18						SANDSTONE			18						
						-Broken down		Nbn							
20						Soft			20					Damp	
22									22						
24									24					Damp	
						25'									
26						BOTTOM OF HOLE - 25'			26						
28									28						

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 30/3/74 | AIRPHOTO NO. | CHAINAGE. 1617+00 | OFFSET.

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

TEST HOLE 3B

MILE 754.8

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						CLAY		
						-Sandy		
4						Silty		Ice
						Pebbles		
6					CL	Low-med. plastic		Vc - Vr
8					CI	Rock chips		Low
10							F	
12								
14						Fragments		Ice
16						SHALE-SILTSTONE-SANDSTONE — 17'		
18						SHALE-SILTSTONE-SANDSTONE		
20						-Soft		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)	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
					Wet
					Moist
					Moist
					Moist
					Moist
					Moist

REMARKS

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

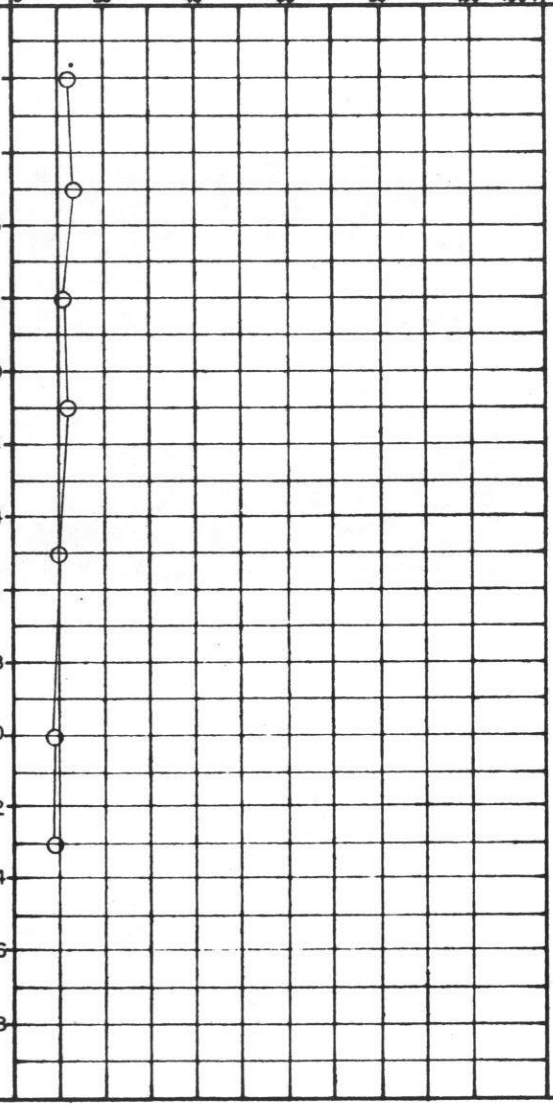
FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 754.8

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					CL	-Sandy Silty Pebbles Low-med. plastic		Vx
6								
8					CI			To
10							F	Nil
12								
14								
16								Ice
18								
						— 19'		Nbn
20						SANDSTONE-SILTSTONE -Soft		
22								
24						SHALE - Soft		
						— 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	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

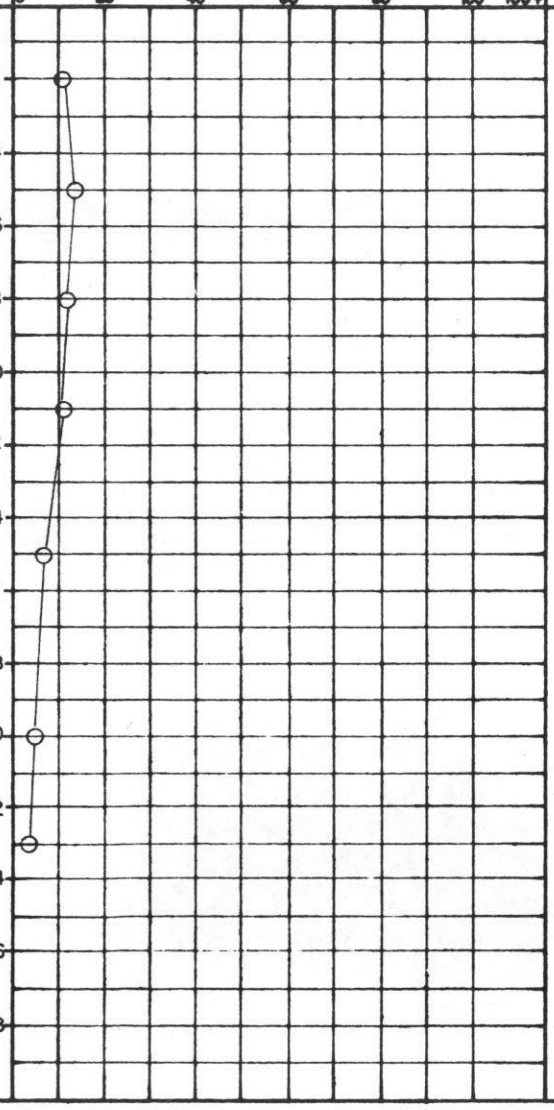
FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 5

MILE 754.8

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		
4						Silty		Low
						Pebbles		
					CL	Low-med. plastic		
6								Ice
					CI			
8								
								Vx
10							F	
12								
						— 14'		—
14								
						SANDSTONE		
16						-Soft		
						— 16½'		Nil
18								
								Ice
20						Hard		
						SHALE-SILTSTONE		
22						-Brittle		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



GRAIN-SIZE ANALYSIS

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

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5-A

MILE 754.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Low
						2'		
4					CL CI	CLAY -Sandy Silty Pebbles Low-med. plastic		Ice
6								Vx
8						8'		
10						SANDSTONE -Soft Ground down	F	Low To
						11'		
12						SHALE-SILTSTONE -Some ground down Sandstone Brittle		Nil
14								
16								Ice
18								Vx
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
0 20 40 60 80 100 120 140 100+

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

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

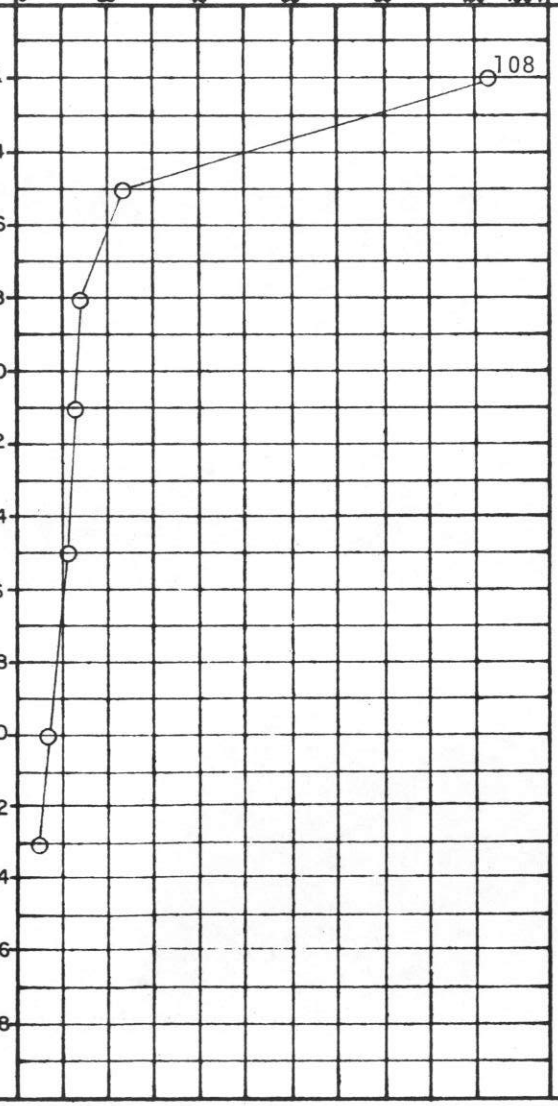
TEST HOLE 5-B

MILE 754.8

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
2						2'		Vs
4					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		Moderate Ice
6								Vc - Vr
8					CI			Low Ice
10							F	Vx
12								
14						SILTSTONE - Soft		
16						16'		Nil
18						SHALE-SILTSTONE -Brittle		
20								Ice
22						Hard		
24								Nbn
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)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Free Water
2					
4					Wet
6					
8					Moist
10					Moist
12					
14					
16					Damp
18					
20					Damp
22					
24					Humid
26					
28					

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1617+00 | OFFSET.

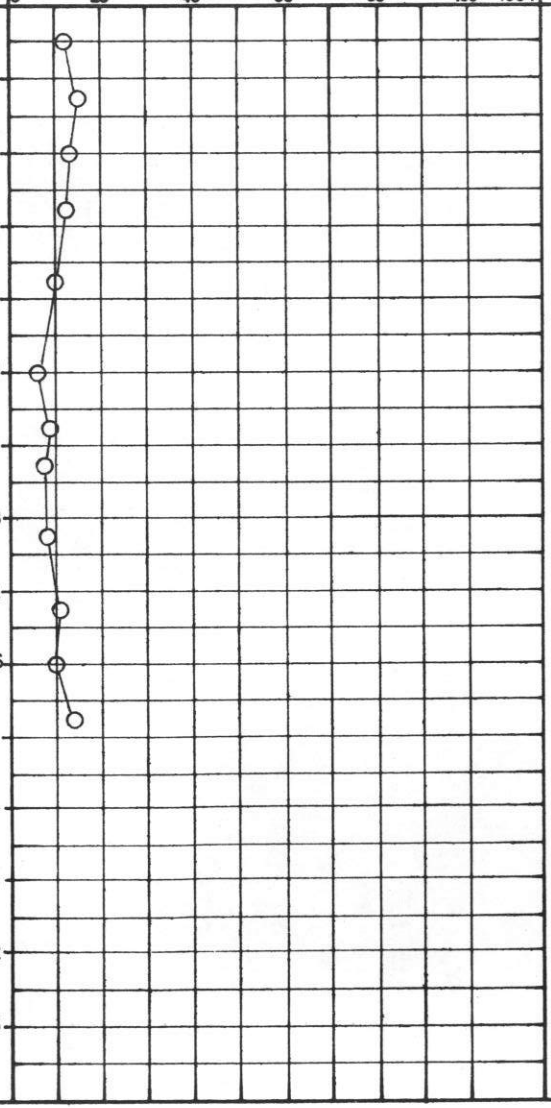
TECH. WEBER | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 5-C

MILE 754.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					OH	ORGANIC — 2'	F	Vx
4					CL	CLAY -Sandy Silty Pebbles Low-med. plastic Siltstone-Sandstone fragments		Low
8					CI			
12						— 14'		Ice
16						SHALE-SILTSTONE -Brittle Sandstone - Soft		Nil Ice Nbn
20								
24						— 25'		Nbn
28						SHALE-SILTSTONE -Brittle To Hard		Nil To Low Ice Vx
32								
36								
40						— 40'		
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 80 100 120 140 100+
0 20 40 60 80 100



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Moist
4					Moist
8					Moist
12					Damp
16					Damp
20					Humid
24					Damp Damp
28					Damp
32					Humid
36					Humid
40					Humid

REMARKS

DS-14-5-74 a

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.	TEST HOLE 6
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 754.8

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		Vs						
6					CI	Low-med. plastic		Low Ice					Wet	
8													Damp	
						9'								
10						SHALE-SILTSTONE-SANDSTONE -Soft		Vx					Damp	
12						Brittle								
14								Nil					Humid	
16														
18								Ice						
20								Nbn					Humid	
22						Hard							Humid	
24														
						25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

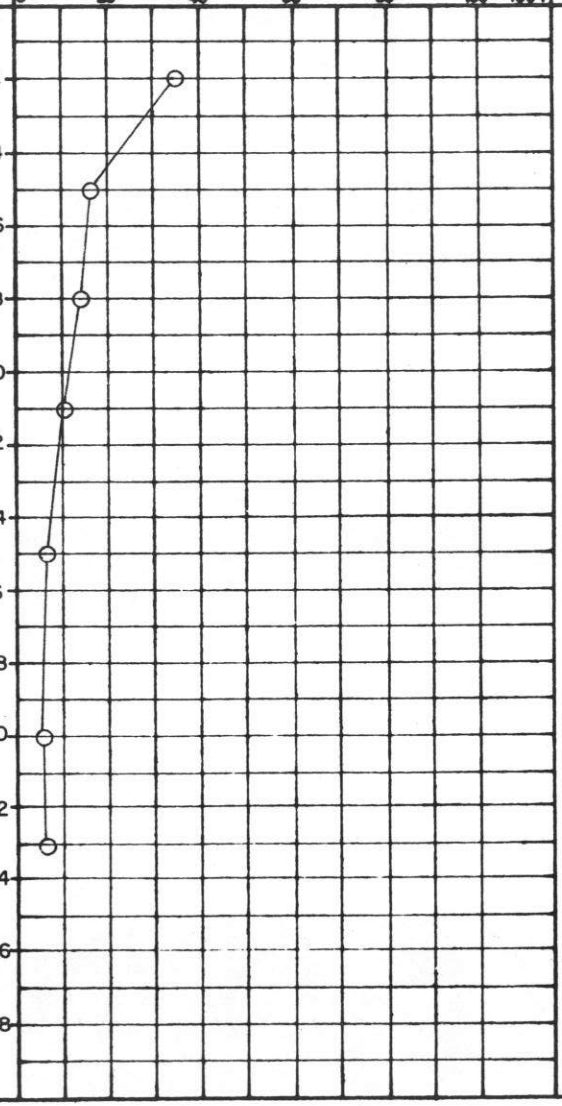
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.	TEST HOLE 7
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 754.8

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	CLAY -Silty Sandy Pebbles		Vs
6					CI	Low-med. plastic		Low Ice
8								
10							F	Vx
						11'		
12						SHALE-SILTSTONE -Broken Brittle		Nil
14								
16								
18						Hard	F	Ice
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



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

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 29/3/74 | AIRPHOTO NO. | CHAINAGE. 1617+00 | OFFSET.

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

TEST HOLE 8

MILE 754.8

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		Low
4						-Sandy		
						Silty		Ice
6						Pebbles		
					CL	Low-med. plastic		Vx
8							F	
					CI			
10								
12								
14						— 15'		
16						SHALE-SILTSTONE-SANDSTONE		Nil
18						-Brittle		Ice
20						Hard		Nbn
22								
24								
						— 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	
				Moist	
				Moist	
				Damp	
				Humid	
				Damp	
				Humid	

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8-A

MILE 754.8

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			Wet
						2'			
4					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		Moderate To Low	Wet
6									
8					CI		F	Ice	Moist
10								Vc - Vr	Moist
12								Vx	
14									
						15'			Damp
16						SHALE-SILTSTONE- SANDSTONE -Broken down Brittle		Nil	
18								Ice	
20									Damp
22								Nbn	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

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 %

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.	TEST HOLE 8-B
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 754.8

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	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT		Moderate	2					Moist	
						2'									
4						CLAY -Sandy Silty Pebbles		Ice	4						
6					CL	Low-med. plastic			6					Wet	
8					CI		F		8					Moist	
10								Vc - Vr	10					Damp	
12								Low	12						
14								To	14						
						15'								Damp	
16						SHALE-SILTSTONE- SANDSTONE		Nil	16						
18						-Broken down Brittle		Ice	18						
20								Vx	20					Moist	
22									22						
24								Nbn	24					Damp	
						25'									
26						BOTTOM OF HOLE - 25'			26						
28									28						

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 9

MILE 754.8

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		Low
						-Sandy		
4						Silty		Ice
						Pebbles		
6					CL	Low-med. plastic		
8					CI			Vx
							F	
10								
12								
14								
						15'		
16						SHALE-SILTSTONE-		
						SANDSTONE		Nil
18						-Friable		
						Soft		
20								Ice
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	40	60	80	100	120	140			

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

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 10

MILE 754.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 4"		
						BOULDERS — 1'		
2						CLAY		
						-Silty		Low
4					CL	Sandy		
						Pebbles		Ice
6						Low-med. plastic		
					CI			
8							F	
								Vx
10								
12								
14								
						15'		
16						SHALE-SILTSTONE		Nil
						-Soft		
18								Ice
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)	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
Wet	
Wet	
Moist	
Moist	
Damp	
Damp	
Damp	

DS-14-5-74 b

BORROW PIT 167

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1617+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

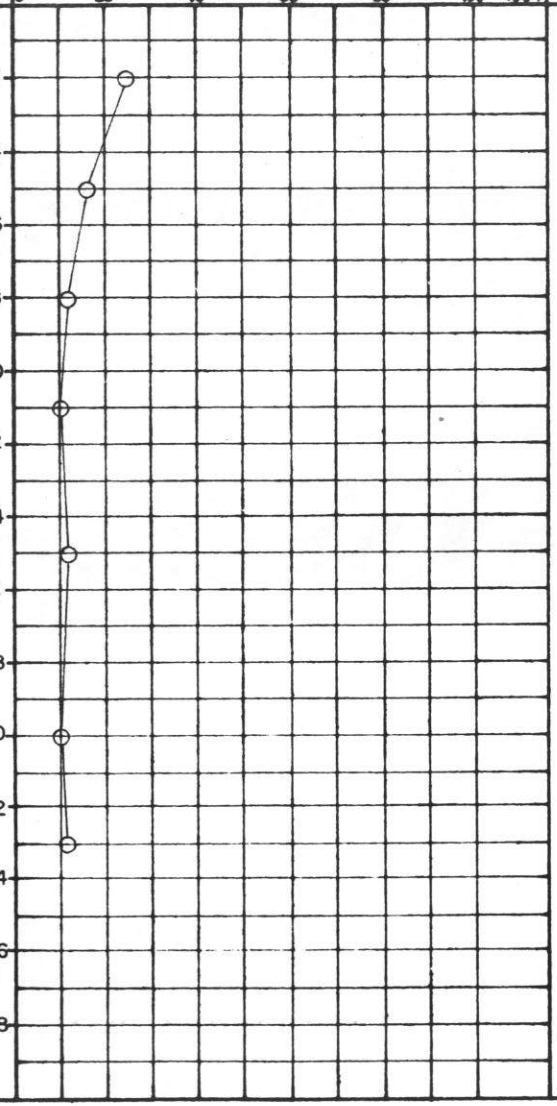
TEST HOLE 11

MILE 754.8

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'		High Ice					Free Water
2						CLAY							
4					CL	-Sandy Silty Pebbles Low plastic		Vs					Wet
6								Low					
8					CI			To					Moist
10							F						
12								Vx					Damp
14								Nil					
15						— 15'							Moist
16						SHALE-SILTSTONE		Ice					
18						-Soft Broken down							
20								Nbn					Damp
22						Soft-med. hard							Damp
24													
25						— 25'							
26						BOTTOM OF HOLE - 25'							
28													



DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE 1
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 753.4

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'								
						COBBLES								
						1'								
2					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		Low					Moist	
4														
6													Moist	
8					CI			Ice					Damp	
10							F							
12													Damp	
						12'								
14						SANDSTONE-SILTSTONE -Broken down Soft							Moist	
16														
18														
20								Vx					Damp	
22													Damp	
24														
						25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 753.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — .5'		
2						GRAVEL - Sandy — 2'		
4						CLAY -Sandy Silty Pebbles		
6					CL	Low-med. plastic		Low
8					CI			
10						Sandstone fragments (Soft)	F	Ice
12						— 11' Boulder Or Rock Layer — 12'		
14						SHALE-SANDSTONE -Very soft		
16								Vx
18								
20								
22						— 23'		
24						SANDSTONE -Hard drilling		
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	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Damp	
				Moist	
				Damp	
				Moist	

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

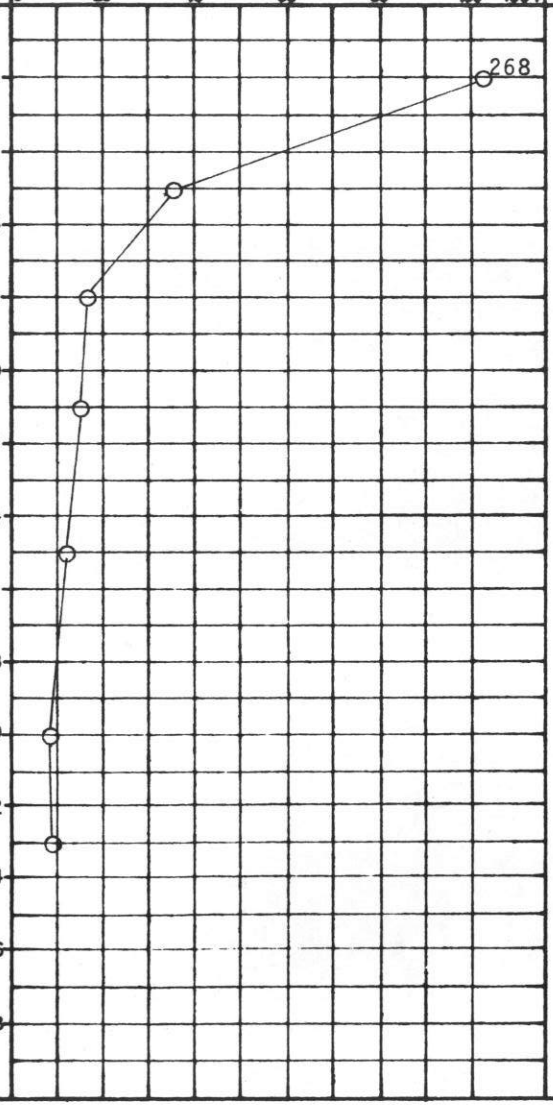
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 29/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE 3
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 753.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		High
0.5'								
2						SILT -Organic		
4								Ice
4'								
6						CLAY -Sandy Silty Pebbles Sand & Siltstone fragments		Vs
8					CL			
10					CI	Low-med. plastic	F	Low
11'								To
12						SHALE-SILTSTONE-SANDSTONE -Soft		Vx
14								Nil
16								
18								
20						Friable Brittle		Ice
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)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Free Water	
4					Sat.	
6						
8					Moist	
10					Moist	
12						
14					Damp	
16						
18						
20					Damp	
22					Damp	
24						
26						
28						

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 753.4

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
2					Pt	PEAT .5'			2					Moist	
4					CL	CLAY -Sandy Silty Pebbles Low-med. plastic Gravelly			4					Moist	
6								Low	6						
8					CI	Pebbles	F		8					Moist	
10						11'			10					Damp	
12						SHALE-SILTSTONE -Soft		Ice	12						
14									14					Damp	
16								Vx	16						
18									18						
20									20					Damp	
22									22					Damp	
24						25'			24						
26						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 0 60 20 80 40 100 60 120 80 140 100 100+

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 28/3/74 | AIRPHOTO NO. | CHAINAGE. 1563+00 | OFFSET.

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

TEST HOLE 5

MILE 753.4

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							Moist
						-Sandy							
						Silty							
4						Pebbles							
					CI	Med. plastic							Moist
6								Low					
8													Damp
10							F	Ice					
													Damp
12													
14						14'							
													Damp
16						SHALE-SANDSTONE							
						-Layered							
18						Siltstone		Vx					
20													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 60 80 100 120 140 100+
0 20 40 60 80 100

REMARKS

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 6

MILE 753.4

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		Vx					Moist	
						-Sandy								
						Silty								
4					CL	Pebbles								
						Low-med. plastic							Wet	
6					CI	Gravelly		Low						
8													Moist	
						9'		To						
10						SHALE-SANDSTONE-SILTSTONE							Damp	
						-Soft	F							
12								Nil						
14													Damp	
16								Ice						
18														
20													Damp	
22								Nbn						
													Damp	
24														
						25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 7

MILE 753.4

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		Low
4						-Sandy		
6						Silty		
8					CI	Pebbles		
10						Med. plastic		
12						9'		
14						SHALE-SANDSTONE-SILTSTONE	F	Ice
16						-Soft		
18						Layered		
20								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
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
	%	%	%	%		
2					Damp	
4						
6					Moist	
8					Moist	
10					Moist	
12						
14					Moist	
16						
18						
20					Damp	
22					Moist	
24						
26						
28						

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 7-A

MILE 753.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1.5'		Moderate
2						CLAY		Ice
4						-Silty Sandy Pebbles		
6					CL	Low-med. plastic	F	Vc - Vr
8					CI			
10								Low
12						Rock chips		To
14								Vx
16						Pebbles		
						17'		Nil
18						SHALE-SILTSTONE- SANDSTONE		
20						-Very hard 17'-19'		Ice
22								
24						Soft-hard		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 80 100 120 140 100+
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	

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 30/3/74 | AIRPHOTO NO. | CHAINAGE. 1563+00 | OFFSET.

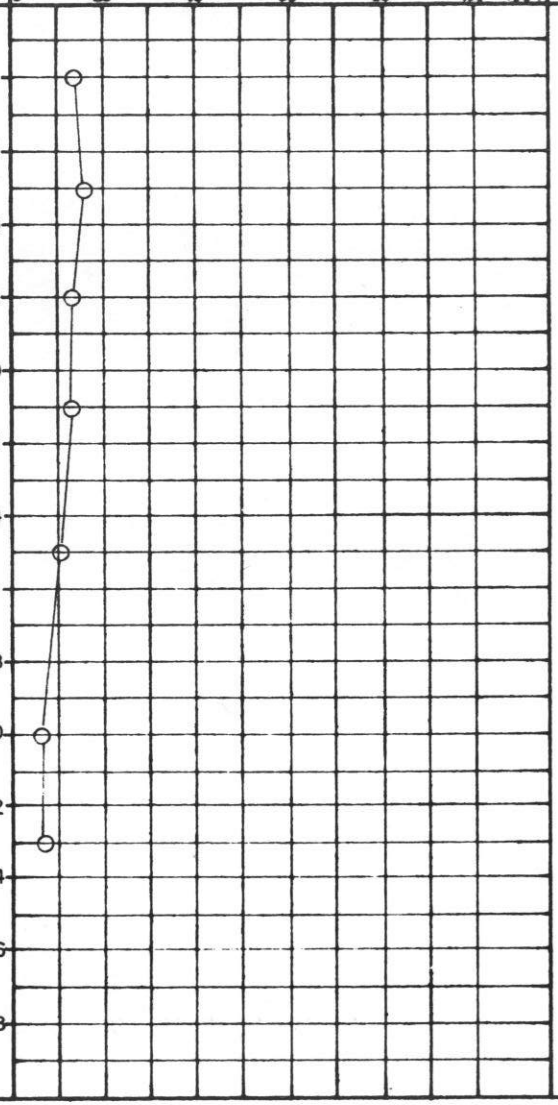
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 7-B

MILE 753.4

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		Vx
						-Silty		
						Sandy		
4						Pebbles		Low
						Low-med. plastic		
6					CL	Rock chips		
8					CI		F	
10								
12						Rock chips		
14								Ice
16						Rock chips		
						17'		
18						Rock very hard		
						18.5'		
20						SHALE-SILTSTONE-SANDSTONE		Frozen
22						-Soft		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



GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Damp	
4					Moist	
8					Damp	
10					Damp	
14					Damp	
20					Damp	
22					Damp	

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 28/3/74 | AIRPHOTO NO. | CHAINAGE. 1563+00 | OFFSET.

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

TEST HOLE 8

MILE 753.4

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 Gravelly Low-med. plastic	F	Low
4								
6								
8								Ice
10					CI	Siltstone fragments		
12								Vx
14								
16								
17'								
18						SHALE-SANDSTONE- SILTSTONE		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

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	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 10

MILE 753.4

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		
4						Gravelly		Low
						Low-med. plastic		
					CL			
6								
8								
							F	
10								
						Sandstone fragments		
12								
					CI			Ice
14								
						Pebbles		
16								
18								
20								
								Vx
22								
						Shale-Sand-		
						& Siltstone frags.		
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
0 20 40 60 80 100 100+

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

DEPTH (FEET)	RELATIVE THAWED MOISTURE CONTENT
2	Moist
4	
6	Moist
8	Damp
10	
12	Damp
14	
16	Damp
18	
20	Damp
22	
24	Damp
26	
28	

REMARKS

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE 11
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 753.4

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		Vx					Moist	
4						-Sandy								
						Silty								
					CI	Pebbles								
6						Med. plastic		Low					Moist	
						Boulders 4'-6'								
8						8'							Moist	
						SHALE-SANDSTONE-		Ice						
10						SILTSTONE	F						Damp	
						-Soft								
12														
14													Damp	
16								Frozen						
18														
20								Nbn					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
0 20 40 60 80 100 120 140 160 180 200+

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE 11-A
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 753.4

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+

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							Moist	
4						-Silty								
6						Sandy								
8						Pebbles & rock chips		Low					Wet	
10					CL	Low-med. plastic								
12					CI		F						Damp	
14														
16								Ice					Damp	
18						Siltstone & Sandstone frags.								
20						14'							Moist	
22						SHALE-SANDSTONE								
24						-Soft								
26						Siltstone		Vx					Moist	
28														
						25'							Moist	
						BOTTOM OF HOLE - 25'							Moist	

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 11-B

MILE 753.4

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 .5'			
						GRAVEL 1'		Moderate	Wet
2						CLAY		Ice	
4						-Silty			
					CL	Sandy			Wet
6						Pebbles		Vc - Vr	
						Low-med. plastic			
8					CI	& rock chips		Vx	Moist
10							F		
								Low	Damp
12						12'			
						SHALE			
14						-Siltstone		To	
						Sandstone			Damp
16						Soft		Nil	
18									
								Ice	
20									Damp
22								Nbn	
									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+

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

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE 12
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 753.4

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
2					Pt	PEAT — 1'		Moderate Ice	2					Wet	
4					CI	CLAY -Sandy Silty Pebbles Med. plastic		Vc - Vr	4					Moist	
6									6						
8						— 8'		Vx	8					Damp	
10						SHALE-SILTSTONE -Soft	F	Low To Nil Ice	10					Damp	
12									12						
14									14					Damp	
16									16						
18									18						
20									20					Damp	
22								Nbn	22					Damp	
24									24						
26						— 25' BOTTOM OF HOLE - 25'			26						
28									28						

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 28/3/74 | AIRPHOTO NO. | CHAINAGE. 1563+00 | OFFSET.

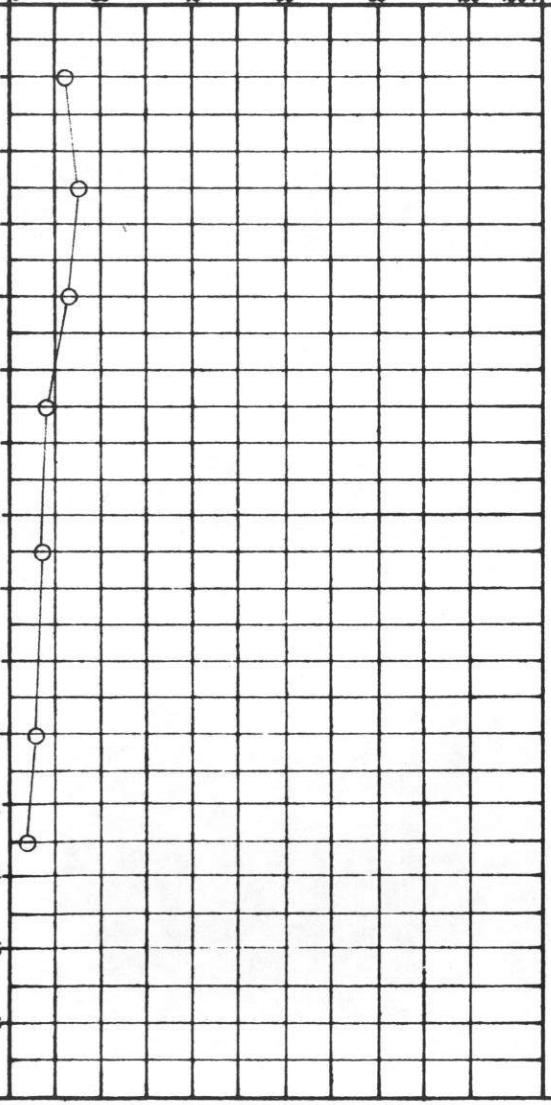
TECH. BAINE | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 13

MILE 753.4

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 Gravelly Low-med. plastic		Low
4					CL			
6					CI			To
8							F	Vx
9.5'								
10						SHALE -Siltstone Sandstone Soft Soft-med. hard		Nil
12								
14								Ice
16								
18								Frozen
20								
22								Nbn
24						Very hard 23'-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	
				Moist	
				Damp	
				Damp	
				Damp	
				Humid	
				Humid	

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

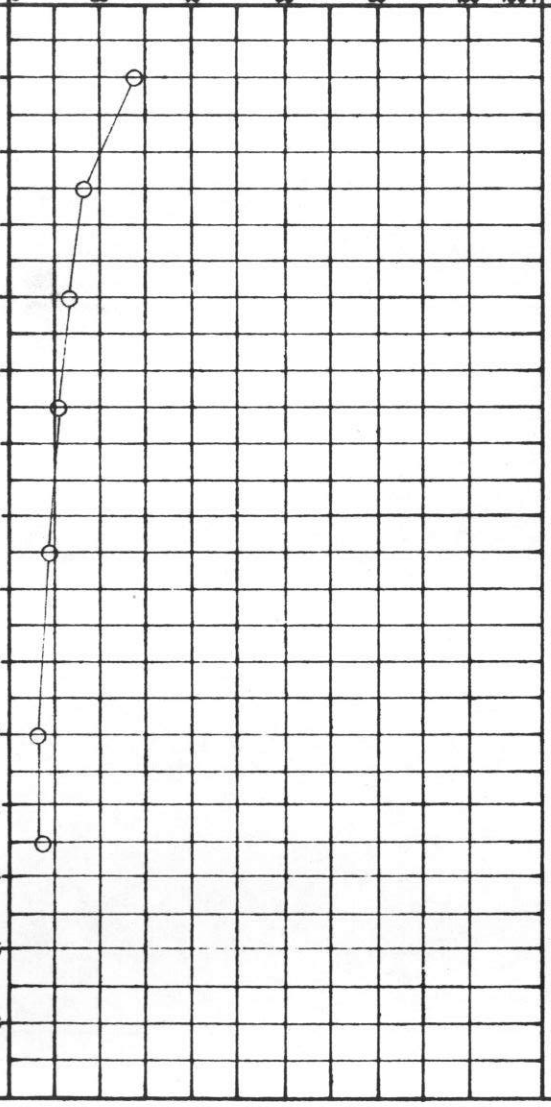
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE 14
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 753.4

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		Moderate
						-Sandy		Ice
4					CI	Silty		
						Pebbles		
6						Med. plastic		Low
							F	Ice
8						8'		
						SHALE		Vx
10						-Silty		
						Soft		
12								Nil
14								
16						Soft-med. hard		Ice
18								
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



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

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 28/3/74 | AIRPHOTO NO. | CHAINAGE. 1563+00 | OFFSET.

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

TEST HOLE 15

MILE 753.4

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		
4						Silty		Low
						Pebbles		
6					CI	Med. plastic		Ice
						Sandstone fragments		
8								Vx
						9'	F	
10						SHALE		
						-Silty		Nil
12						Soft		
14								
16								Ice
18								
20								
								Nbn
22						Soft-med. hard		
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 | 109+

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

REMARKS

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE	15-A
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE	753.4

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'		To
						CLAY -Silty Sandy Pebbles & Rock chips 30%		Moderate Ice
					CL	Low-med. plastic		
								Vs-Vc-Vr
					CI			
							F	Low Ice
						Soft Shale frags.		Vx
						20'		
						SHALE-SANDSTONE -Soft		Frozen
						Sandstone Med. hard		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

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

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

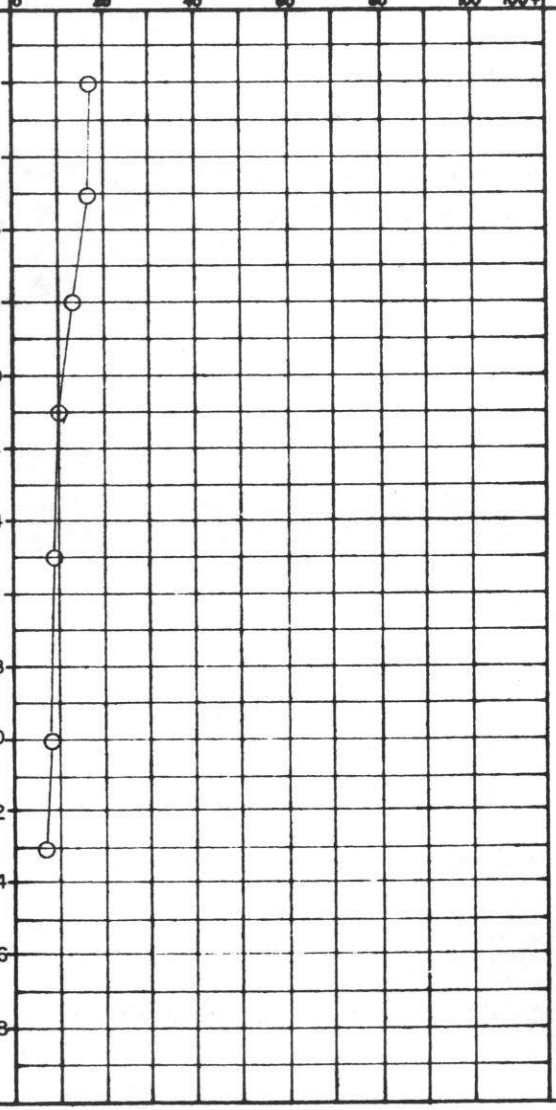
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE 15-B
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 753.4

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 Low-med. plastic	F	Low Ice
4								
6					CI			Vx
8						— 8.5'		
10						SHALE -Soft		Frozen
12						SILTSTONE -Med. hard		Nil
14						SHALE -Soft-med. hard		
16								Ice
18								
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



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

REMARKS

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

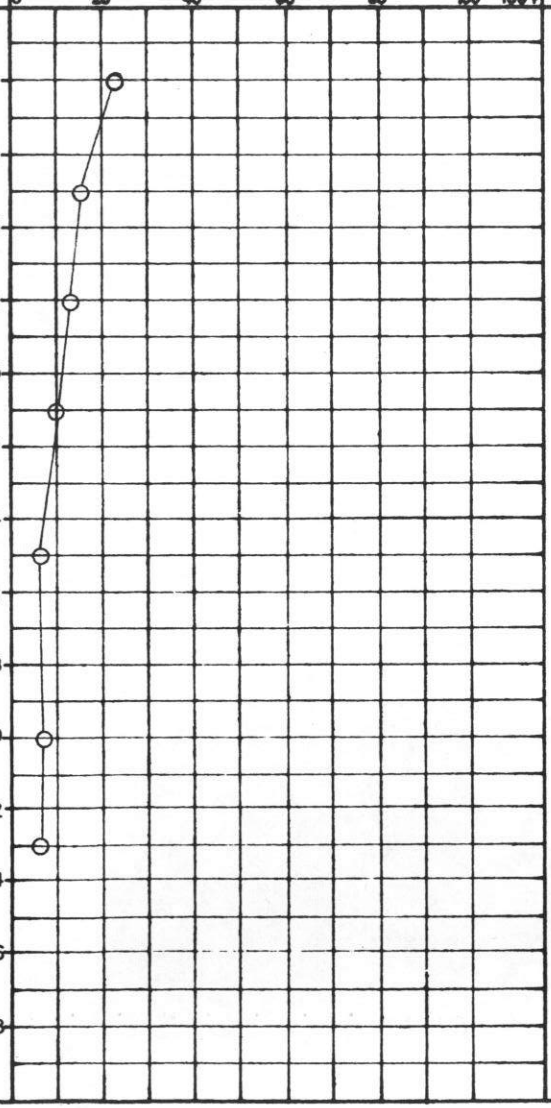
FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 16

MILE 753.4

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 Ice Vc - Vr
2					CI	CLAY -Silty Sandy Med. plastic		
4								
6						6'		Low Ice Vx
8						SHALE -Silty Soft		
10							F	
12								Nil
14								
16						Siltstone frags.		Ice
18								Frozen
20								Nbn
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



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

REMARKS

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE 17
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 753.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'	F	Moderate Ice
2					CI	CLAY -Sandy Silty Gravelly Med. plastic Pebbles		Vc - Vr
8								Low Ice
10						— 11'		
12						SHALE -Silty Soft		Vx
16						Soft-med. hard		
18								Frozen Nbn
24						Med. hard		
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
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	
				Moist	
				Damp	
				Damp	
				Damp	
				Humid	

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 28/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 18

MILE 753.4

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
					Pt	PEAT — 1'								
2						CLAY		Moderate					Moist	
4						-Sandy Silty Pebbles Med. hard		Ice					Moist	
6					CI	Shale frags., soft		Vc - Vr						
8						— 8'	F						Moist	
10						SHALE -Silty Soft		Low Ice					Damp	
12								Vx						
14								Nil					Damp	
16						Med. hard		Ice						
18														
20								Nbn					Damp	
22													Humid	
24														
						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 168

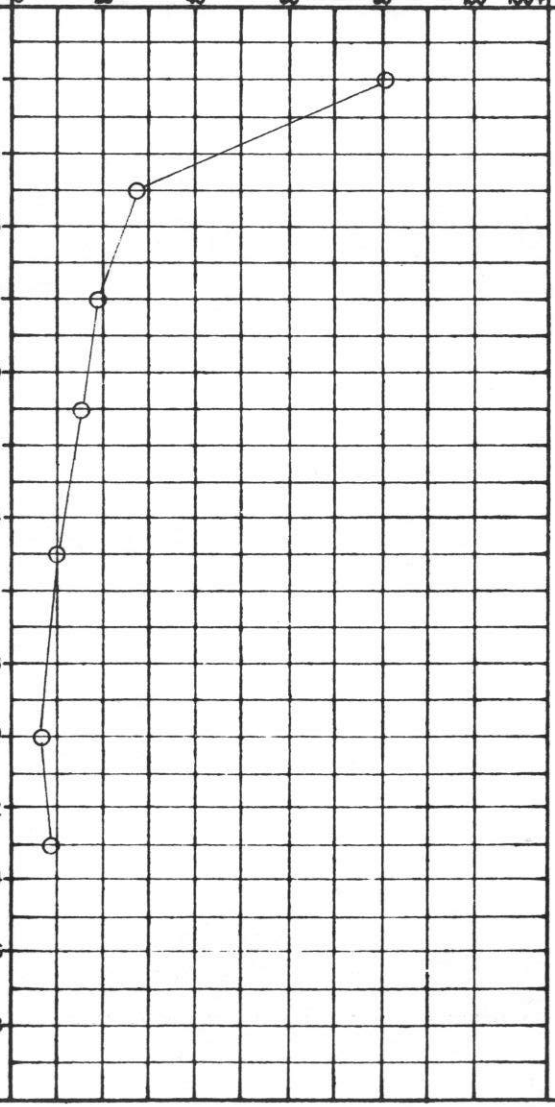
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE 18-A
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 753.4

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



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

REMARKS

DS-14-5-74 b

BORROW PIT 168

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

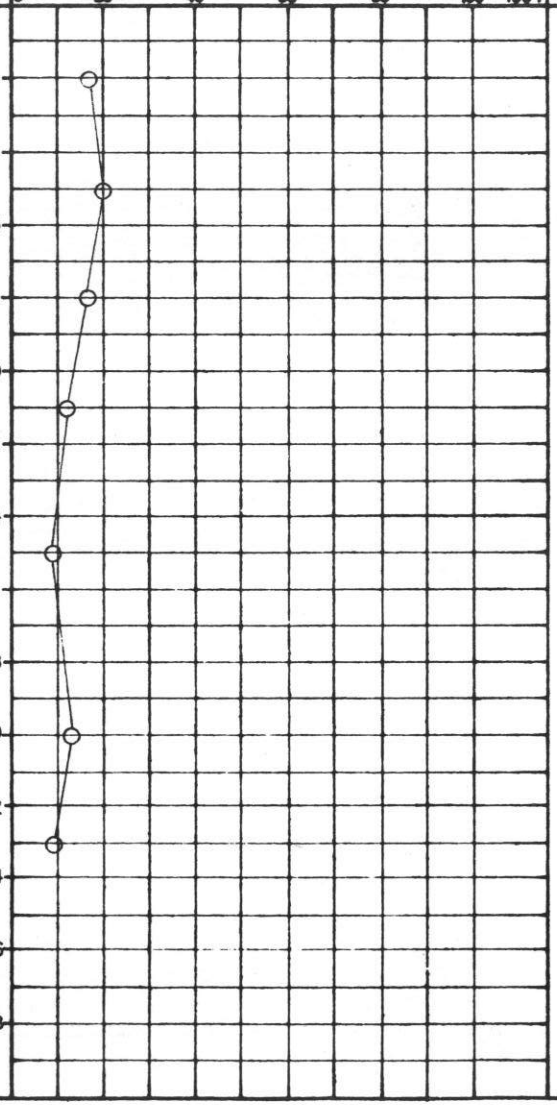
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1563+00	OFFSET.	TEST HOLE 18-B
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 754.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT ½'		Moderate
2						CLAY		Ice
4						-Silty Sandy Pebbles		
6					CL	Low-med. plastic		Vc - Vr
8					CI			Low
10						Shale fragments	F	
12						12'		
14						SHALE-SILTSTONE -Soft		Ice
16						SHALE -Soft		
18								
20								
22								Vx
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



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

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 30/3/74 | AIRPHOTO NO. | CHAINAGE. 1476+00 | OFFSET.

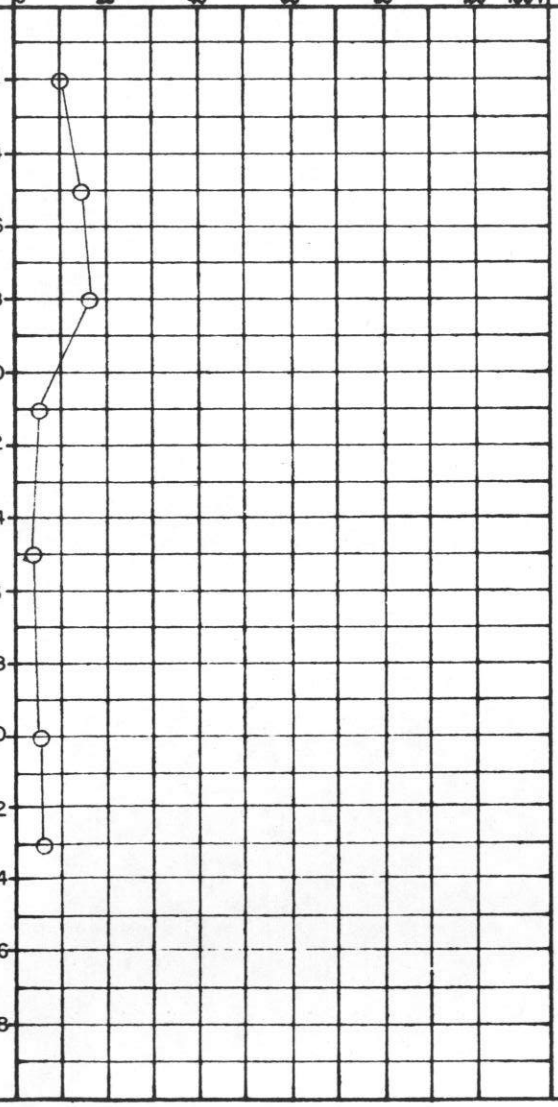
TECH. WEBER | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE 752.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					GC	GRAVEL-CLAY-SAND Rock chips Rock Layers		Low
4						SILTSTONE -Hard		Ice
6								
						7'		
8					CL	CLAY -Silty sandy Gravelly Rock chips		Vx
10						10'		
12						SILTSTONE-SANDSTONE LIMESTONE	F	Frozen
14								
16						LIMESTONE -Hard		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



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

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

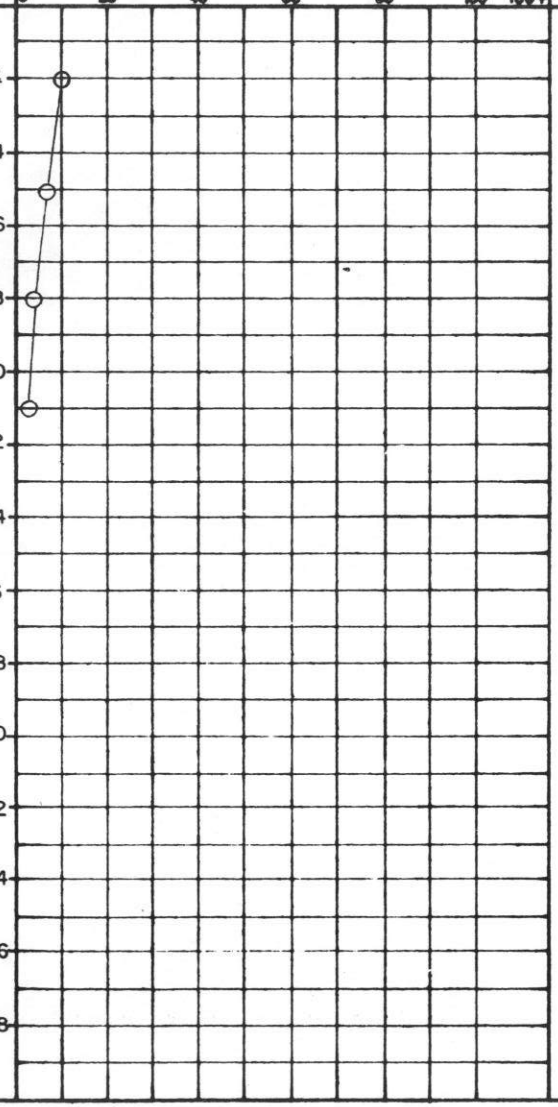
FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1476+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 752.3

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 -Rock layers Bedrock		Nil
4								
6						SAND & SILTSTONE -Hard		Ice
8								
10						LIMESTONE -Hard	F	Nbn
12						— 13'		
14						BOTTOM OF HOLE - 13'		
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
CLAY %	SILT %	SAND %	GRAVEL %	
				Moist
				Damp
				Damp
				Humid

REMARKS

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

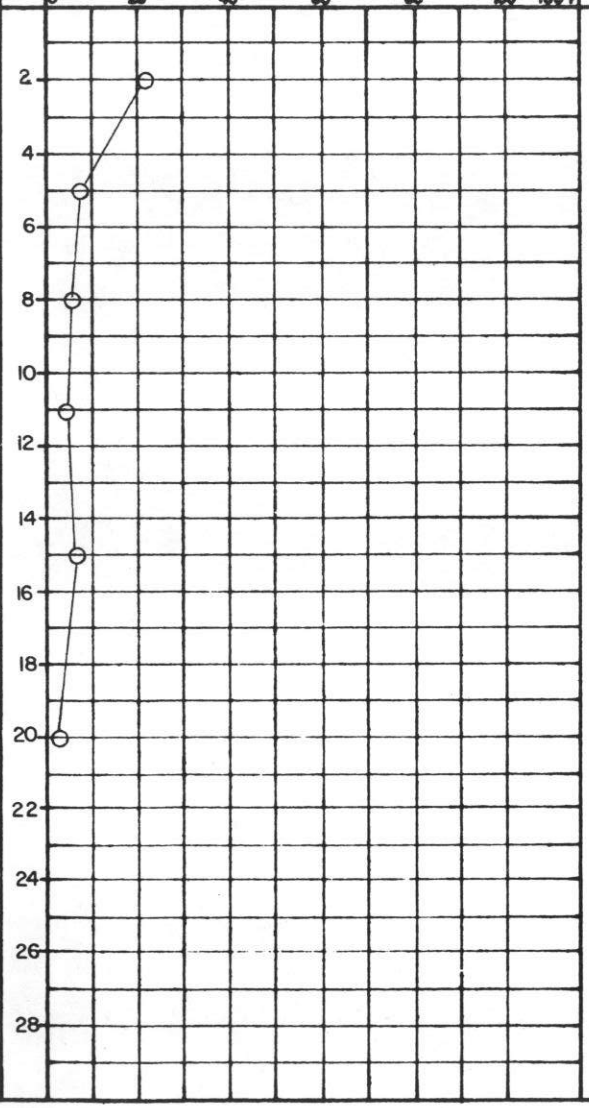
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1476+00	OFFSET.	TEST HOLE 3
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 752.3

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					CL	CLAY -Gravelly Silty sandy Low plastic — 4'		Ice Vc - Vr
4						LIMESTONE -Hard		
6								
8							F	Nil
10								
12								Ice
14								
16								Nbn
18						Very hard drilling		
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



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

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

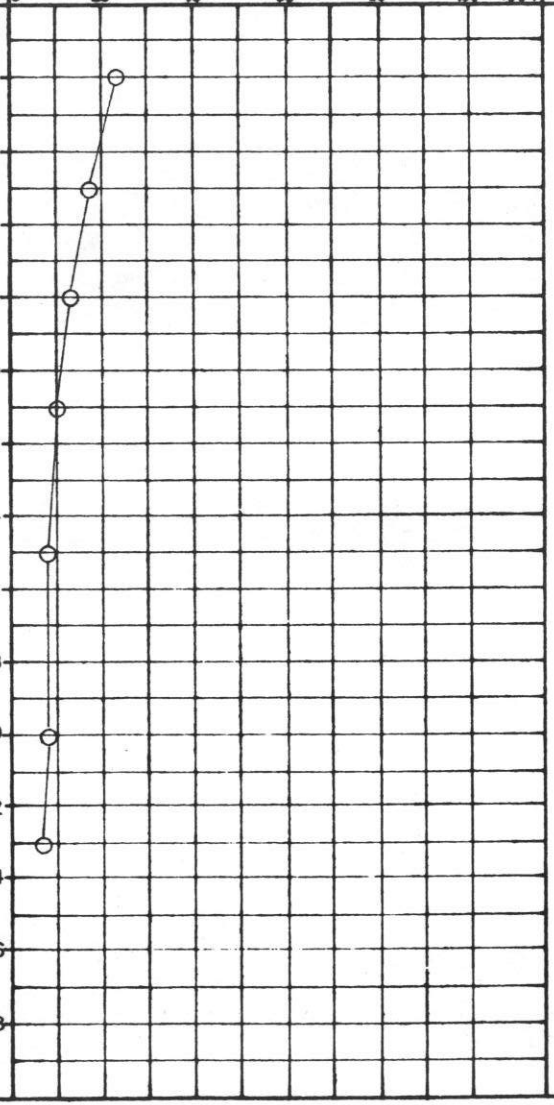
FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1476+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 752.3

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					CL	CLAY -Silty Sandy Pebbles Low plastic		Ice Vc - Vr
4						— 5'		
6						SHALE-SILTSTONE -Med. hard - hard		Vx
8								Low
10							F	To
12						Soft-hard		
14								Nil
16								Ice
18						Med. hard - hard		
20								
22						Hard		Nbn
24						SILT & LIMESTONE		
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
40 60 80 100 120 140
0 20 40 60 80 100 120+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0						
2					Sat.	
4						
6					Wet	
8					Wet	
10					Moist	
12						
14					Damp	
16						
18						
20					Damp	
22					Humid	
24						
26						
28						

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 30/3/74 | AIRPHOTO NO. | CHAINAGE. 1476+00 | OFFSET.

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

TEST HOLE 5

MILE 752.3

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 — 1.5'		Low	Wet
4						SILTSTONE-SHALE			
6						-Hard		Vx	Damp
8						SHALE -Soft	F	To	Moist
10									
12						Soft-med. hard		Nil	Damp
14									
16						SHALE-SILTSTONE -Med. hard - hard		Ice	Damp
18									
20						Soft-hard			Damp
22								Nbn	
24									Humid
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
0 20 40 60 80 100 120 140 100+

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

REMARKS

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

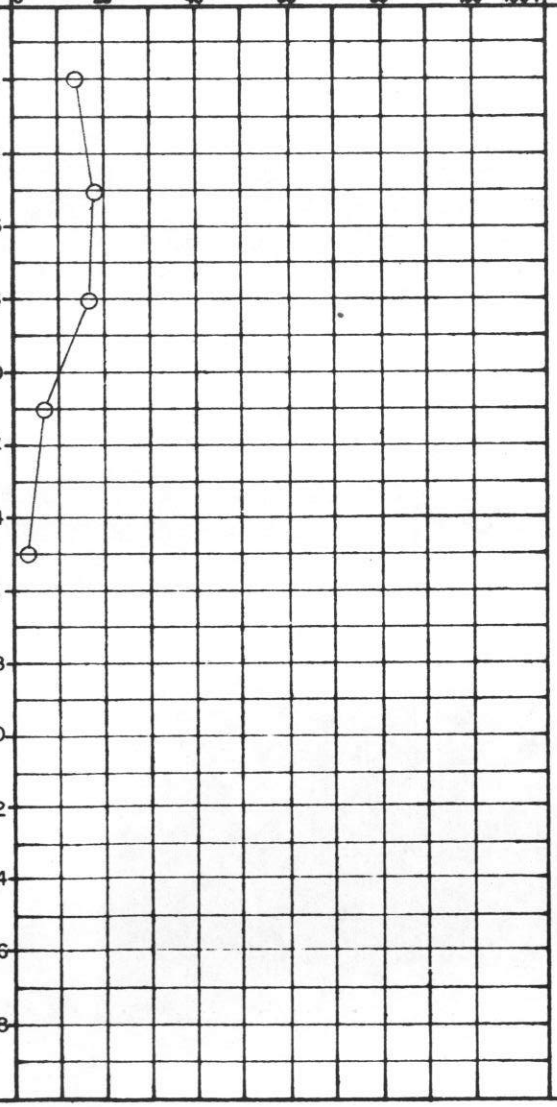
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED.	AIRPHOTO NO.	CHAINAGE. 1476+00	OFFSET.	TEST HOLE 6
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 752.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'	F	Moderate Ice
2					CL	CLAY -Silty sandy Low plastic — 4'		
4						SHALE -Soft-med. hard		Vc - Vr
6								
8								Low To Nil
10								
12						SHALE-SILT-SANDSTONE -Soft - hard		
14								Ice Vx Nbn
16								
18						— 18'		
20						BOTTOM OF HOLE - 18'		
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 %		
				Moist	
				Wet	
				Moist	
				Moist	
				Damp	

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

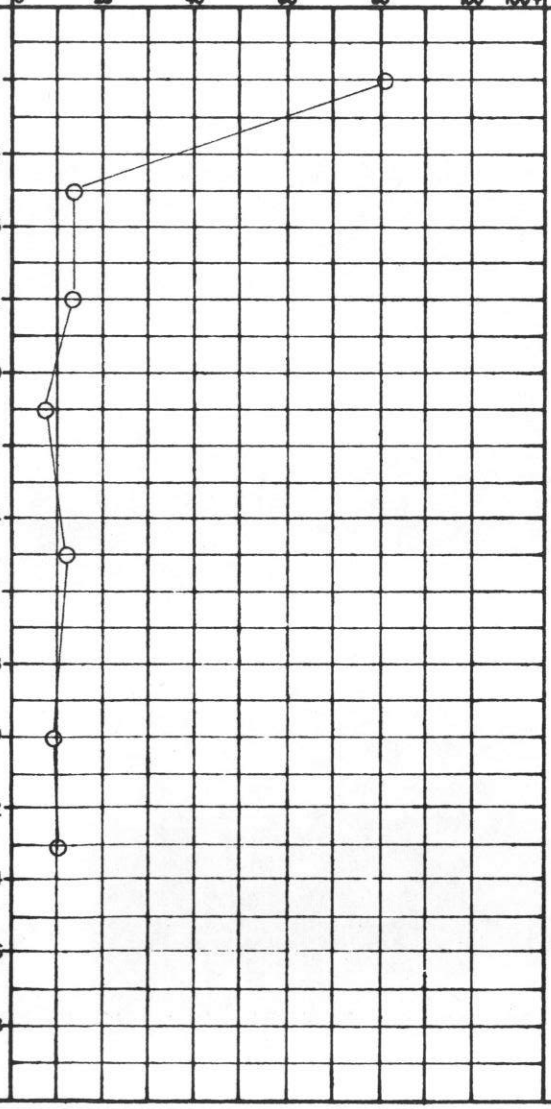
SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1476+00	OFFSET.	TEST HOLE 7
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 752.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1½'		High Ice
2								
4					CL	CLAY -Silty Sandy Rock chips — 5'		Vs
6						SAND -50% rock chips		Low
8					SM	Silty — 8'		
10						SANDSTONE -Soft	F	Ice
12								
14								
16						SHALE -Soft SILT & SANDSTONE -Hard		Vx
18								
20						SILTSTONE-SANDSTONE		
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



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

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

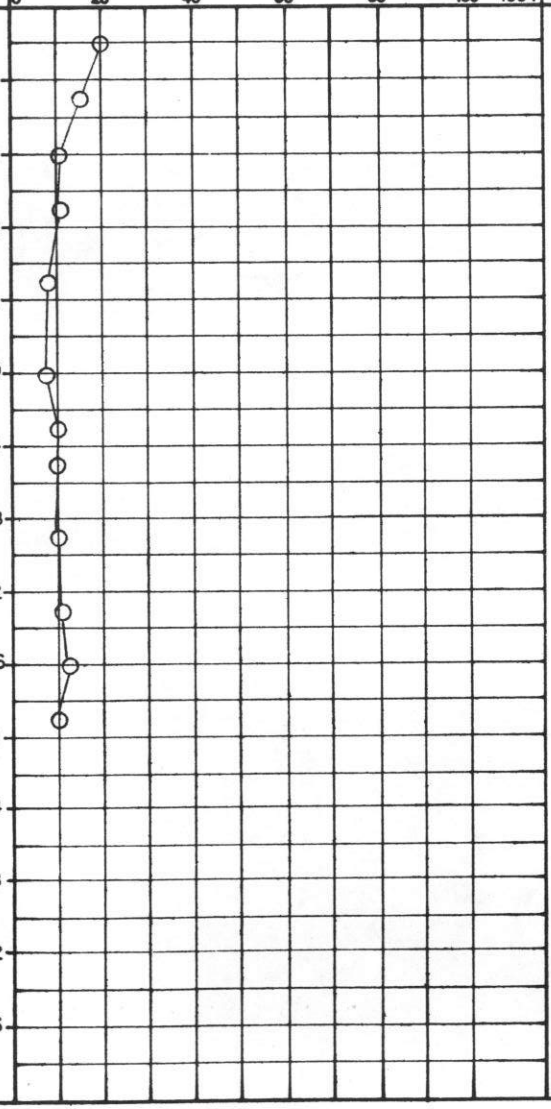
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1476+00	OFFSET.	TEST HOLE 8
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 752.3

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 Moderate Ice
4					CL	CLAY-Silty, sandy Pebbles — 5'		Low
8					SC	SAND -Clayey Possible Sandstone Soft — 8'		Ice
12					CL	CLAY -Silty Sandy Pebbles Rock chips — 10'	F	Vx
16								Frozen
20						SHALE-SANDSTONE -Soft SANDSTONE-SILTSTONE SHALE — 25'		Nbn
24								
28						SILTSTONE-LIMESTONE -Soft - hard		Vx Low Ice To Nil
32								
36								
40						SANDSTONE — 40'		Nbn
44								
48								
52								
56								

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	REMARKS
0					Sat.	
4					Moist	
8					Moist	
12					Moist	
16					Damp	
20					Humid	
24					Humid	
28					Humid	
32					Humid	
36					Damp	
40					Damp	

DS-14-5-74 a

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1476+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 9

MILE 752.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2						COBBLES & BOULDERS		
						2'		
4					CL	CLAY -Silty Sandy Pebbles-Rock chips Low plastic		Low
6								Ice
8								
10						Sandstone fragments 10'	F	Vx
12						SANDSTONE -Soft		Nil
14								Ice
16						SHALE-SILTSTONE -Soft - hard		
18								Nbn
20								
22						SILTSTONE-SANDSTONE -Soft - 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
				Moist
				Damp
				Damp
				Damp
				Damp
				Damp
				Damp

REMARKS

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1476+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 10

MILE 752.3

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
2					Pt	PEAT 1.5'							Damp
4						SANDSTONE SILTSTONE -Med. hard - hard		Low					Moist
6													
8							F						Damp
10						SHALE-SANDSTONE CLAY -Soft		Ice					Damp
12													
14						SAND -Possible soft Sandstone							Damp
16						SHALE-SILT- & SANDSTONE -Soft							
18								Vx					
20													Damp
22													
24						SANDSTONE -Soft Some Shale							Damp
26						25' BOTTOM OF HOLE - 25'							
28													

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

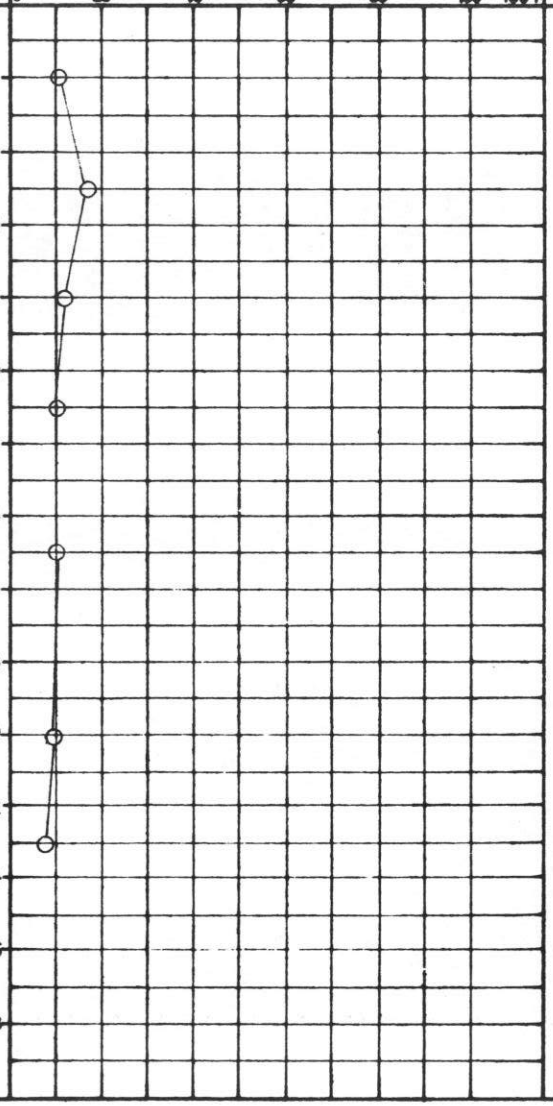
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1476+00	OFFSET.	TEST HOLE 11
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 752.3

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-med. plastic		Low
4								
6					CI			Ice
8						— 8'	F	
10						SAND -Silty Possible broken down Sandstone		Vx
12								
14						SHALE-SANDSTONE -Soft		Nil
16								
18								Ice
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



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

DS-14-5-74 b

BORROW PIT 169

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

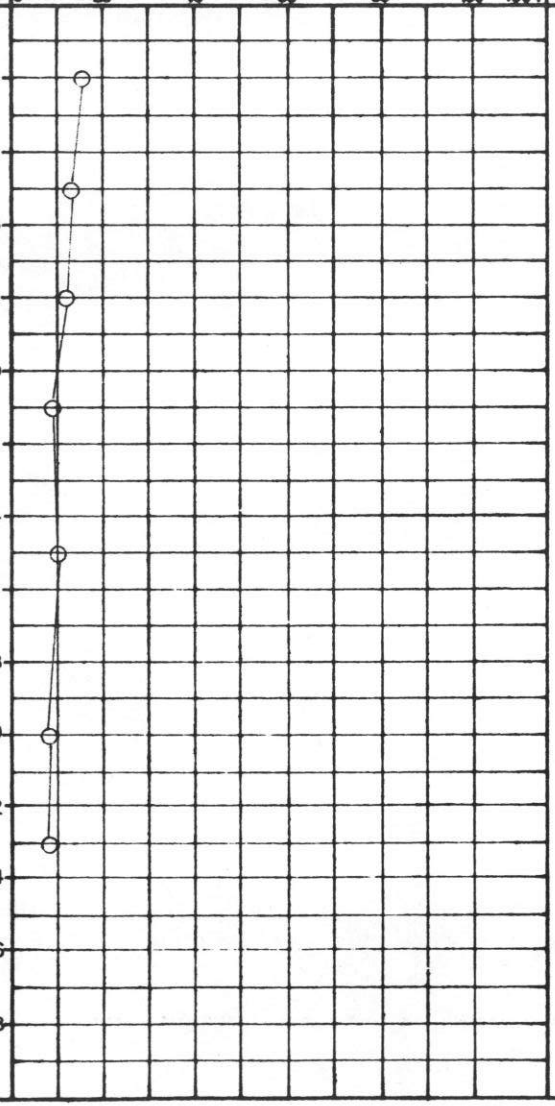
FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1476+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 12

MILE 752.3

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					CL	CLAY -Gravelly		
					GC	GRAVEL -Clayey — 4'		Vs
4						SHALE-SILTSTONE SANDSTONE -Soft		
6								
8								Low
10							F	
12								Ice
14								
16								
18								
20								
22								Vx
24						Soft-med. 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



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

DS-14-5-74 b

BORROW PIT 170

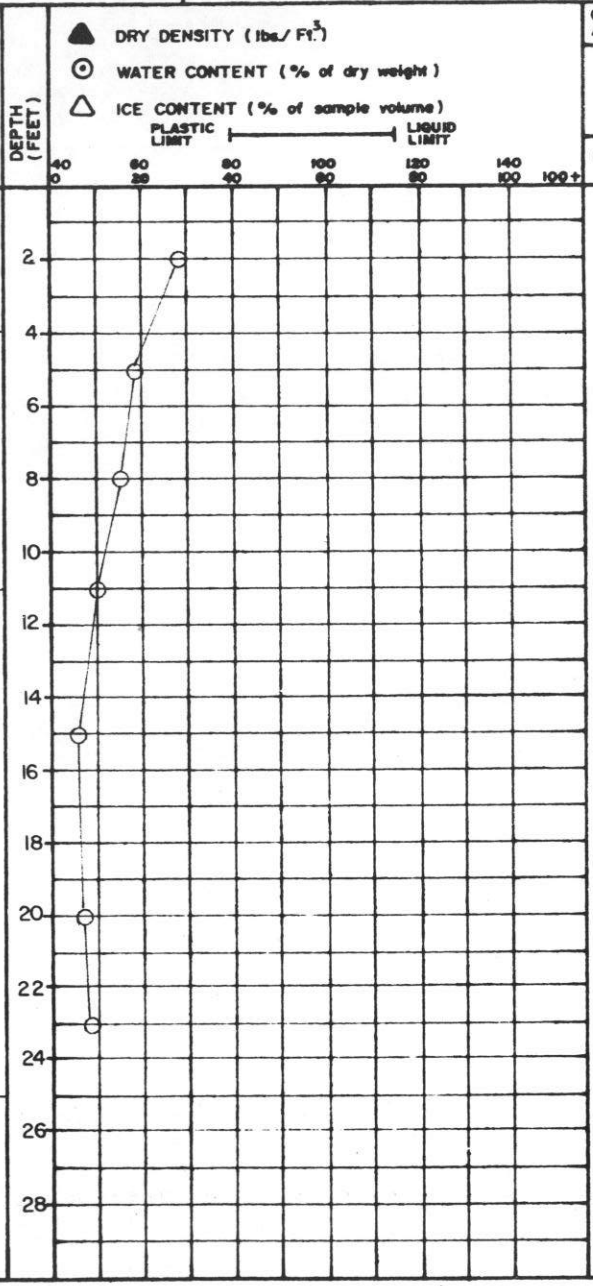
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1436+00	OFFSET.	TEST HOLE 1
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 751.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT	F	Moderate Ice
						2'		
4					CL	CLAY -Some Org. mat. to 4' Sandy Silty Pebbles		Vc - Vr
6					CI	Low-med. plastic		Low Ice
8								Vx
10						10'		
12						SHALE-SANDSTONE -Soft		Nil
14								
16								Ice
18								
20								Nbn
22								
24								
						25'		
26						BOTTOM OF HOLE - 25'		
28								



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

REMARKS

DS-14-5-74 b

BORROW PIT 170

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1436+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 751.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Moderate Ice Vc - Vr
1'								
2					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Low
4								
6					CI			Ice
8								
10							F	Vx
12								
14								
16								
17'								
18						SHALE-SANDSTONE -Soft		Frozen Nbn
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 60 80 100 120 140
0 20 40 60 80 100 100+

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

DS-14-5-74 b

BORROW PIT 170

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1436+00	OFFSET.	TEST HOLE 3
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 751.5

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						CLAY		Low					Moist	
4						-Sandy Silty Pebbles-Rock chips								
6					CL	Pebbles		Ice					Moist	
8					CI	Low-med. plastic	F	Vx					Moist	
10						— 11'							Damp	
12						SHALE-SANDSTONE -Soft		Nil						
14													Damp	
16								Ice						
18														
20								Frozen					Damp	
22								Nbn					Damp	
24						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 170

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

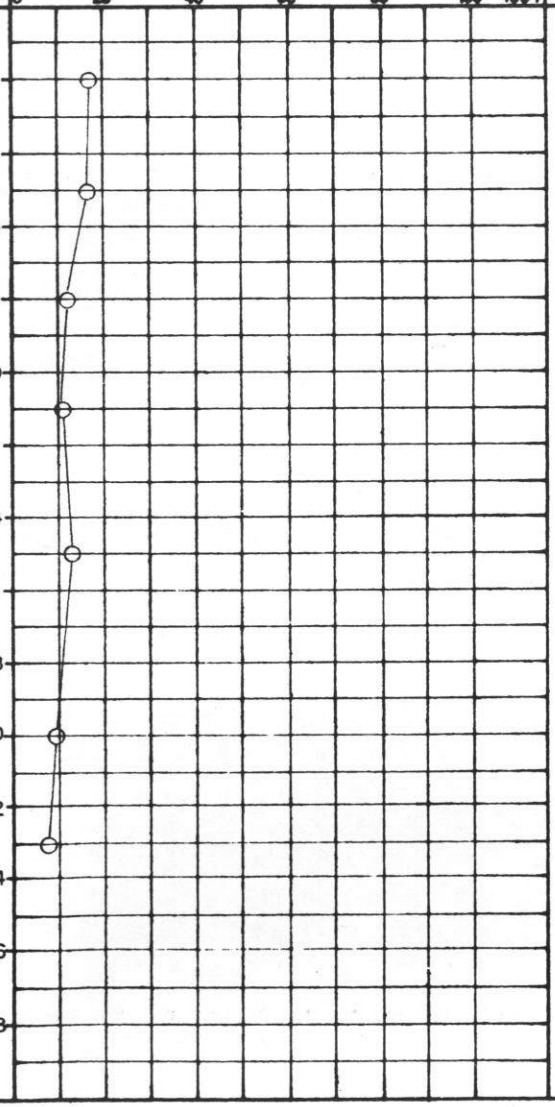
FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1436+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 751.5

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			
8					CI			
10							F	Vx
12								
14						— 14'		
						HARD LAYER OR ROCK — 14½'		
16								Ice
18								
20						— 20'		
22						SHALE-SANDSTONE -Very soft		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



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

RELATIVE THAWED MOISTURE CONTENT	REMARKS
Moist	
Moist	
Damp	
Damp	
Damp	
Damp	
Damp	

DS-14-5-74 b

BORROW PIT 170

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1436+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE 751.5

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 ½'			
2					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		Low Ice Vx	Moist
4									Moist
6									
8					CI				Damp
10						10'	F		
12						SHALE-SILTSTONE SANDSTONE -Soft		Nil	Damp
14								Ice	Damp
16						SHALE-SANDSTONE -Soft			
18								Frozen	
20									Damp
22								Nbn	Damp
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

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

DS-14-5-74 b

BORROW PIT 170

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

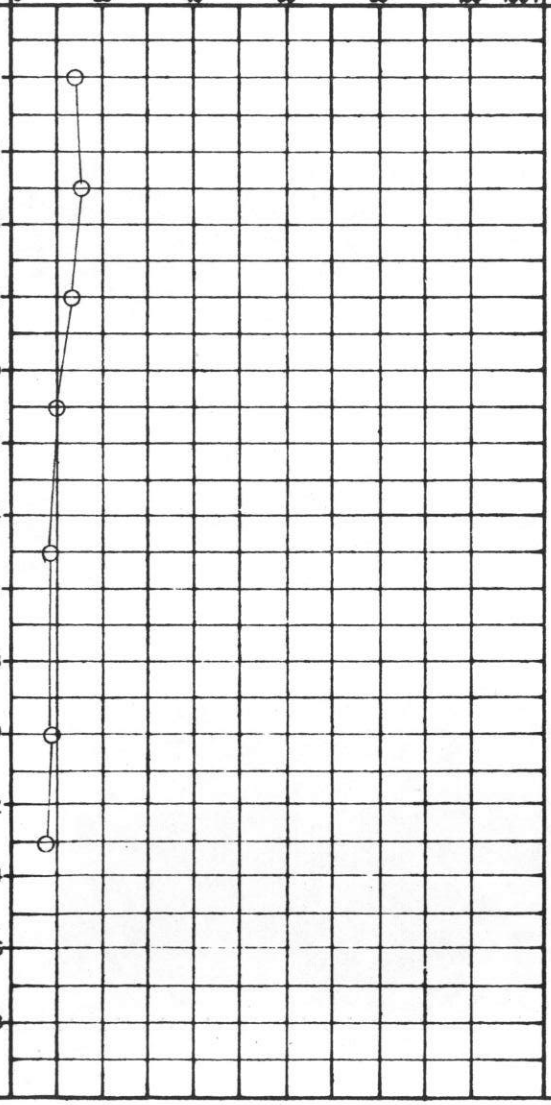
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1436+00	OFFSET.	TEST HOLE 6
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 751.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 1½'		Low
4					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Ice
6					CI			Vx
8						Rock chips	F	
10								
12								
14						— 15'		
16						SHALE-SANDSTONE -Soft		Frozen
18								Nil
20								Ice
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	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

CORE HOLE

BORROW PIT 170

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1436+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 7
					MILE 751.5

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
					Pt	PEAT ½'		Low					Moist	
4					CL CI	CLAY -Sandy Silty Pebbles Low-med. plastic		Vx					Moist	
8							F	Ice					Damp	
						LIMESTONE-Hard ? 8½' – 9½'								
12								Nil						
16						CORE								
20								Frozen						
24						25'							Damp	
28						SHALE-SANDSTONE -Soft SAND -Possible Sandstone							Damp	
32						Some Shale		Ice					Damp	
36						SHALE-SILTSTONE -Soft-hard							Damp	
40						40'							Humid	
44						BOTTOM OF HOLE - 40'								
48														
52														
56														

DS-14-5-74 a

BORROW PIT 170

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

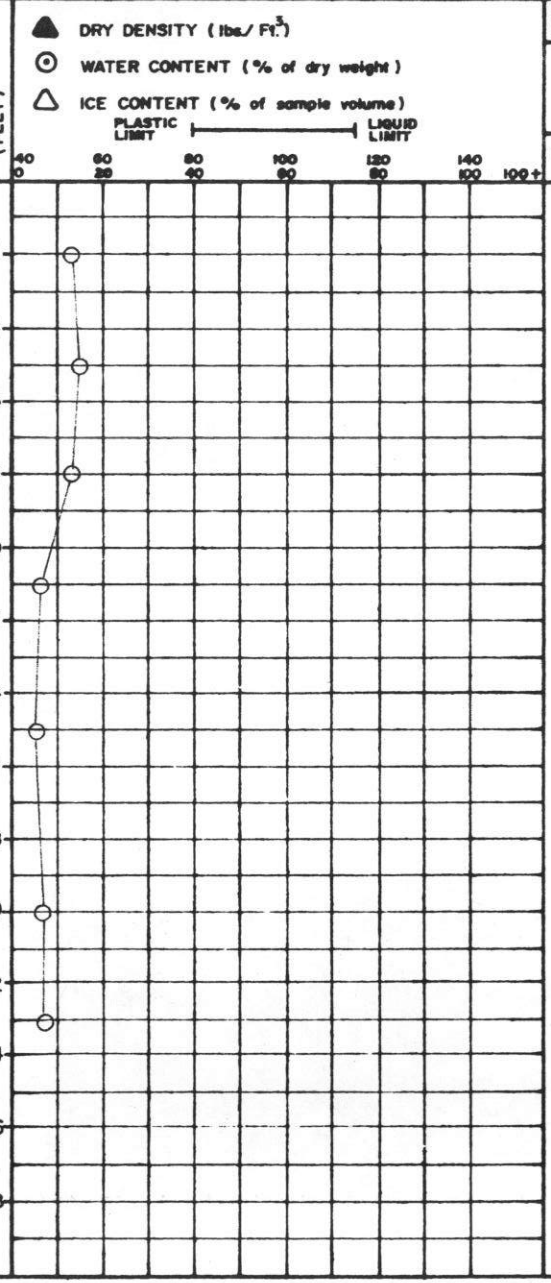
SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1436+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE 751.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1/4'		
2					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Low
4								
6					CI			Ice
8							F	Vx
						— 9'		
10						SHALE-SANDSTONE -Soft SILTSTONE-LIMESTONE -Hard		Nil
12								
14						SHALE-SANDSTONE -Soft		
16								Ice
18								
20								Frozen
22								Nbn
24								
						— 25'		
26						BOTTOM OF HOLE - 25'		
28								



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

DS-14-5-74 b

BORROW PIT 170

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

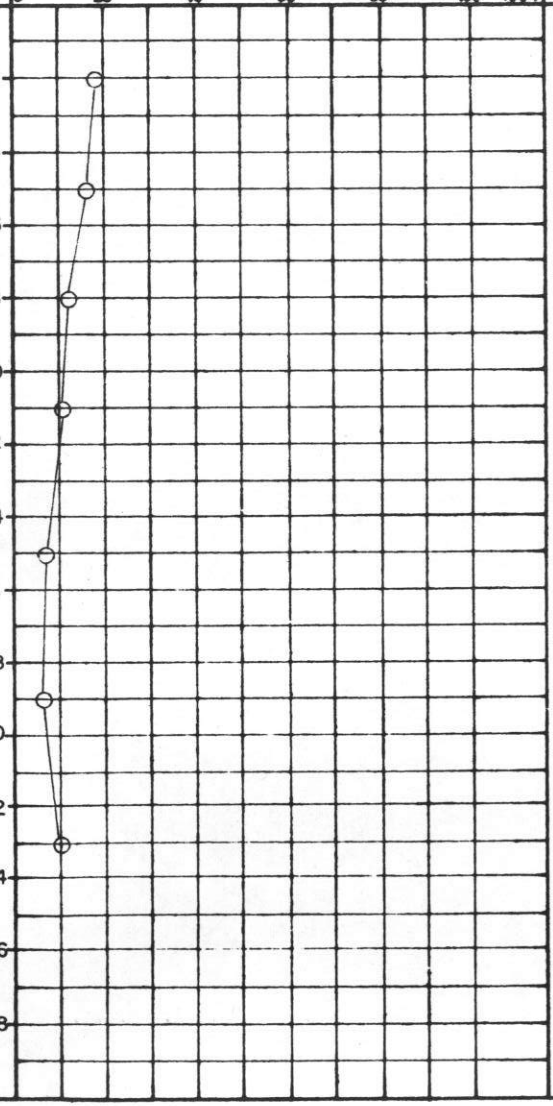
FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 1436+00	OFFSET.	
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 9
					MILE 751.5

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 Vc - Vr
2						2'		
4					CL CI	CLAY -Silty Sandy Pebbles Low-med. plastic		Low
6								
8						Rock chips		Ice Vx
10						11'		
12						SHALE-SANDSTONE -Soft		Nil
14								Ice
16						SANDSTONE -Soft		
18								Frozen
20						SHALE-SILTSTONE -Hard		Nbn
22								
24						Soft - Hard		
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	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Sat.	
				Moist	
				Damp	
				Damp	
				Damp	
				Humid	
				Damp	

DS-14-5-74 b

BORROW PIT 170

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 30/3/74	AIRPHOTO NO.	CHAINAGE. 7436+00	OFFSET.	TEST HOLE 10
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 751.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Vx
						2'		
2						CLAY		
4						-Silty Sandy Pebbles		Low
						5'		
6						SHALE-SANDSTONE -Soft	F	To
8								
10								
12								Nil
14						SANDSTONE -Soft		Ice
16								
18								
20						SHALE - Soft SILTSTONE - Hard		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

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	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 170

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1436+00	OFFSET.	TEST HOLE	11
TECH. W. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE	751.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT ½'		Moderate Ice
2					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Vc - Vr
4								
6					CI			Low Ice
8							F	
10								
12						11½'		Vx
						SHALE-SILTSTONE -Soft - hard		
14								Nil
16								
18						LIMESTONE ?		Ice
20						-Hard		Frozen
22								
24								Nbn
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)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Sat.	
4					Wet	
6						
8					Moist	
10						
12					Moist	
14					Damp	
16						
18						
20					Humid	
22					Humid	
24						
26						
28						

DS-14-5-74 b

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1354+00	OFFSET.	TEST HOLE 1
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 749.9

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		Low
4						-Silty		
						Sandy		
6						Pebbles	F	
					CL	Low-med. plastic		
8								Ice
10								
					CI			
12								
14								
16								Vx
18								
20						20'		
						SHALE		Frozen
22						-Soft-med. hard		
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 80 100 120 140 100+
0 20 40 60 80 100

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

DS-14-5-74 b

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1354+00	OFFSET.	TEST HOLE 2
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 749.9

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						2'		
					CI	CLAY -Sandy Silty Pebbles Med. plastic	F	Low Vx Ice
						21'		Frozen
						SANDSTONE-SHALE		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

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

DS-14-5-74 b

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1354+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 3

MILE 749.9

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		Low
4						Low-med. plastic		
					CL			
6								
8								
						Rock chips		
10					CI	To bottom of hole	F	
								Ice
12								
14								
16								
								Vx
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 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					Moist	
6						
8					Damp	
10					Damp	
12						
14					Damp	
16						
18						
20					Damp	
22					Damp	
24						
26						
28						

DS-14-5-74 b

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1354+00	OFFSET.	TEST HOLE 4
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 749.9

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'													Moist	
					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Low						
4													Moist	
6														
8					CI		F						Moist	
10								Ice					Moist	
12														
14														
16													Damp	
17'								Vx						
18						SHALE-SANDSTONE -Soft		Frozen							
20								Nbn					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
0 20 40 60 80 100 120 140 160+

DS-14-5-74 b

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1354+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 5
					MILE 749.9

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 ½'								
2						CLAY -Sandy Silty Pebbles Med. plastic							Moist	
4													Moist	
6					CI									
8							F	Low					Damp	
10								Ice					Damp	
12								Vx						
14														
						15.5'							Humid	
16						SHALE-SANDSTONE SILTSTONE -Soft		Nil						
18								Ice						
20								Frozen					Humid	
22								Nbn					Damp	
24														
						25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1354+00	OFFSET.	TEST HOLE 6
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 749.9

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
						4'		Vs
4					CL	CLAY -Sandy Silty		Low
8					CI	Pebbles Low-med. plastic	F	Ice
12								
16						Boulder fragments		Vx
20						19'		
						SHALE-SANDSTONE		Frozen
24								Nbn
28						25'		
						SANDSTONE -Soft		Nil
32								
36								Ice
40						40'		Nbn
						BOTTOM OF HOLE - 40'		
44								
48								
52								
56								

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
				Moist
				Damp
				Damp
				Damp
				Humid
				Damp
				Damp
				Damp
				Damp

REMARKS

DS-14-5-74 a

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. 1354+00 | OFFSET.

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

TEST HOLE 7

MILE 749.9

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'		
4					CL	CLAY -Sandy Silty Pebbles Low-med. plastic	F	Low
6								
8								
10					CI			
12								Ice
14								
16								
18								
20								Vx
22								
23						23'		
24						SANDSTONE -Soft		
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 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					Damp	
20					Damp	
23					Moist	

DS-14-5-74 b

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1354+00	OFFSET.	TEST HOLE 8
TECH.	RIG.	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 749.9

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
0–2					Pt	PEAT		Moderate Ice					Sat.	
2–13					CL CI	CLAY -Sandy Silty Pebbles Low-med. plastic	F	Vc - Vr; Low Ice					Wet; Moist; Moist	
13–25						SHALE-SANDSTONE -Soft		Ice; Vx					Moist; Moist; Damp	
25						BOTTOM OF HOLE - 25'								

DS-14-5-74 b

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1354+00	OFFSET.	TEST HOLE 9
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 749.9

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

DS-14-5-74 b

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. 1354+00 | OFFSET.

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

TEST HOLE 10

MILE 749.9

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'								
2					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Vc - Vr
4								
6								Low Ice
8						Rock chips		
10					CI		F	Vx
12								
14'								
14						SHALE-SANDSTONE -Soft		Nil Ice
16								
18								
20						SANDSTONE -Soft-med. hard		Frozen
22								
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
0 20 40 60 80 100 120 140 100+

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

DS-14-5-74 b

BORROW PIT 171

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. 1354+00 | OFFSET.

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

TEST HOLE 11

MILE 749.9

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'		
2					CL	CLAY -Silty Sandy Low-med. plastic		Ice
4								Vc - Vr
6							F	
8								
10					CI			Low
12								
14						Rock chips		Ice
16								
18								
20								Vx
						20'		
22						SANDSTONE -Soft		Frozen
24								Nbn
						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 80 100 120 140 160+

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

DS-14-5-74 b

BORROW PIT 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. 1214+00 | OFFSET.

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

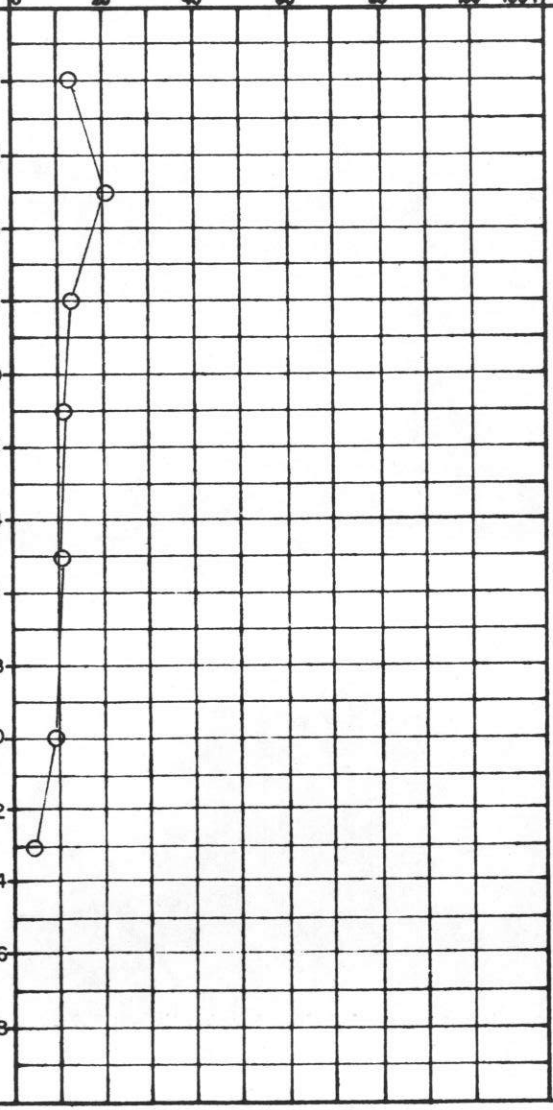
TEST HOLE 1

MILE 747.3

REMARKS

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					CL	CLAY -Silty Sandy Pebbles Low-med. plastic	F	Vc - Vr
6								
8					CI			Vx Low Ice
10								
						11'		
12						SANDSTONE -Soft		Nil
14								
16								Ice
18								
20								Frozen
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



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

DS-14-5-74 b

BORROW PIT 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

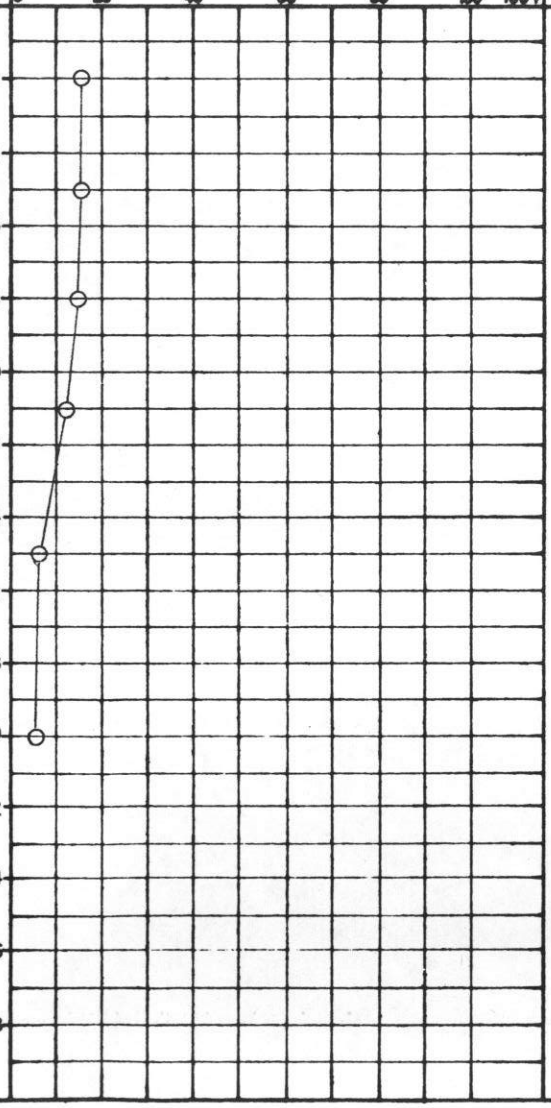
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.	TEST HOLE 2
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 747.3

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
0–2'					Pt	PEAT							Moist	
2–15'					CL	CLAY -Sandy Silty Pebbles Low-med. plastic		Low Ice Vx					Moist Moist Moist Damp	
15–22'					CI	SANDSTONE -Soft SANDSTONE-SILTSTONE -Soft-med. hard	F	Frozen Nbn					Damp	
22'						BOTTOM OF HOLE - 22'								

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 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.	TEST HOLE 3
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 747.3

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					CI	CLAY -Sandy Silty Pebbles Med. plastic		Low					Moist	
4													Moist	
6														
8													Moist	
10							F	Ice					Damp	
12														
14														
16													Damp	
18								Vx						
20													Damp	
22													Damp	
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
0 20 40 60 80 100 120 140 160 180+

DS-14-5-74 b

BORROW PIT 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 31/3/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 747.3

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					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Low
6								Ice
8					CI		F	
10								Vx
12								
						13'		
14						LIMESTONE -Hard		Nil
16								
18								Ice
20								Frozen
22								Nbn
24								
						25'		
26						BOTTOM OF HOLE - 25'		
28								

DEPTH (FEET) 2 4 6 8 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

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

DS-14-5-74 b

BORROW PIT 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 5

MILE 747.3

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 Pebbles Med. plastic		Low					Moist
4													Moist
6													
8					CI		F	Ice					Damp
10													
12								Vx					Damp
14													
16													Damp
18													
20						20'							Humid
22						LIMESTONE -Hard		Frozen					Humid
24								Nbn					
26						25' — BOTTOM OF HOLE - 25'							
28													

DS-14-5-74 b

BORROW PIT 172

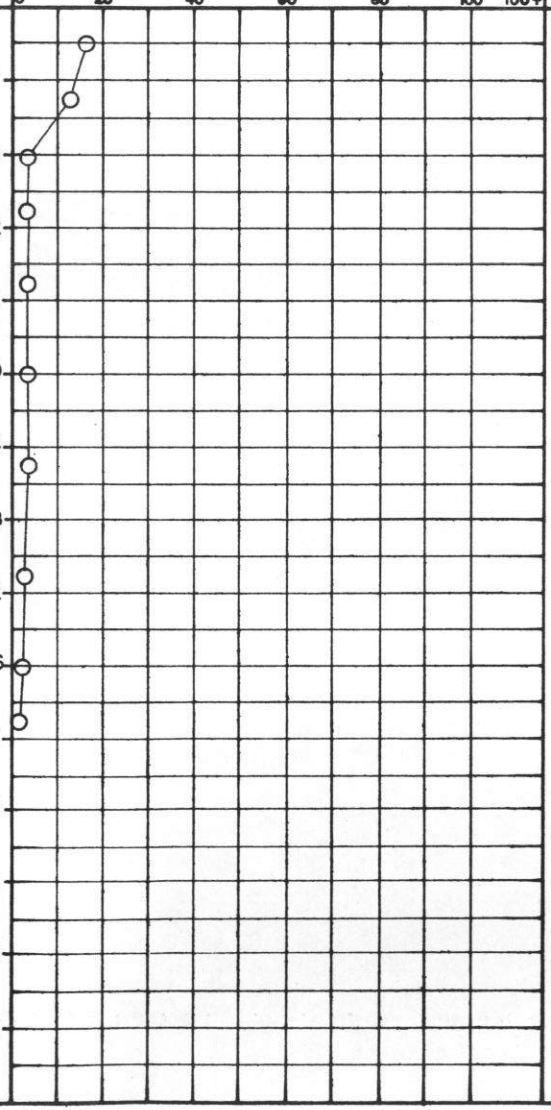
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.	TEST HOLE 6
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 747.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 2'		Low Ice
4					CI	CLAY-Sandy silty Pebbles Limestone frags. — 6'		Vx
8						SHALE-SANDSTONE LIMESTONE	F	
12						LIMESTONE-SANDSTONE -Hard		Nil
16								Ice
20								Nbn
24						— 25'		
28						SANDSTONE-LIMESTONE -Some Shale Extremly hard Drilling		
32								
36								
40						— 40'		
44						BOTTOM OF HOLE - 40'		
48								
52								
56								



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

REMARKS

DS-14-5-74 a

BORROW PIT 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 7

MILE 747.3

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	REMARKS
					Pt	PEAT — 1'								
2						CLAY -Sandy Silty Pebbles Med. plastic							Damp	
4													Moist	
6														
8								Low					Damp	
10					CI		F						Damp	
12								Ice						
14													Damp	
16														
18								Vx						
20													Damp	
22													Damp	
24														
						25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

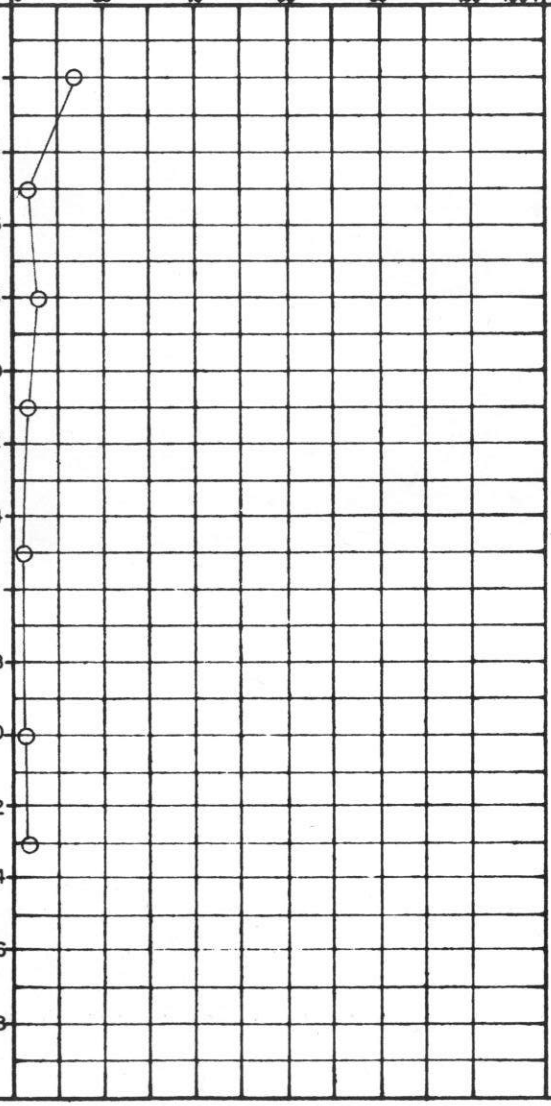
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 8
					MILE 747.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Low Ice
						2'		
4					CL	CLAY -Sandy silty Pebbles		Vx
						4'		
6						SHALE-SANDSTONE SILTSTONE		Nil
8						SANDSTONE -Very hard		
10							F	
12						SANDSTONE-LIMESTONE		Ice
14								
16								
18								Nbn
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	
				Damp	
				Damp	
				Humid	
				Humid	
				Humid	
				Humid	

DS-14-5-74 b

BORROW PIT 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.	TEST HOLE	9
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE	747.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 1½'		Low Ice
4					CI	CLAY -Sandy silty Pebbles — 4'		Vx
6						SANDSTONE-LIMESTONE -Hard	F	Frozen
8								
10								
12								
14								Nbn
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
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					Moist	
4					Humid	
6						
8					Humid	
10					Humid	
12						
14					Humid	
16						
18						
20					Humid	
22					Humid	
24						
26						
28						

DS-14-5-74 b

BORROW PIT 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 10

MILE 747.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2'						CLAY -Sandy Silty Pebbles Boulder fragments To end of hole Med. plastic	F	Low
					CI			Ice
15'						ROCK LAYER		
17'						AS ABOVE		Vx
25'						BOTTOM OF HOLE - 25'		

DEPTH (FEET) 0 2 4 6 8 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 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	
				Moist	
				Damp	
				Damp	
				Humid	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 11

MILE 747.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'	F	Moderate
2					CL	CLAY -Silty Sandy Pebbles Low plastic		Ice
4								Vc - Vr
6					CI	Med plastic		
8					↓			Low
10								
12								Ice
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

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	
				Wet	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

DS-14-5-74 b

BORROW PIT 172

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE. 1214+00	OFFSET.
TECH. BAINE	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 13

MILE 747.3

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'		
6						CLAY -Sandy Silty Pebbles Med. plastic		Low
8								
10								
12					CI		F	Ice
14								
16								
18								Vx
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

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

138.6

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

DS-14-5-74 b