Public Works Canada

Travaux Publics Canada

85

Western Region

Region de l'Ouest



GEOTECHNICAL INVESTIGATION

MILE 725 TO MILE 936 MACKENZIE HIGHWAY

Vol II

16

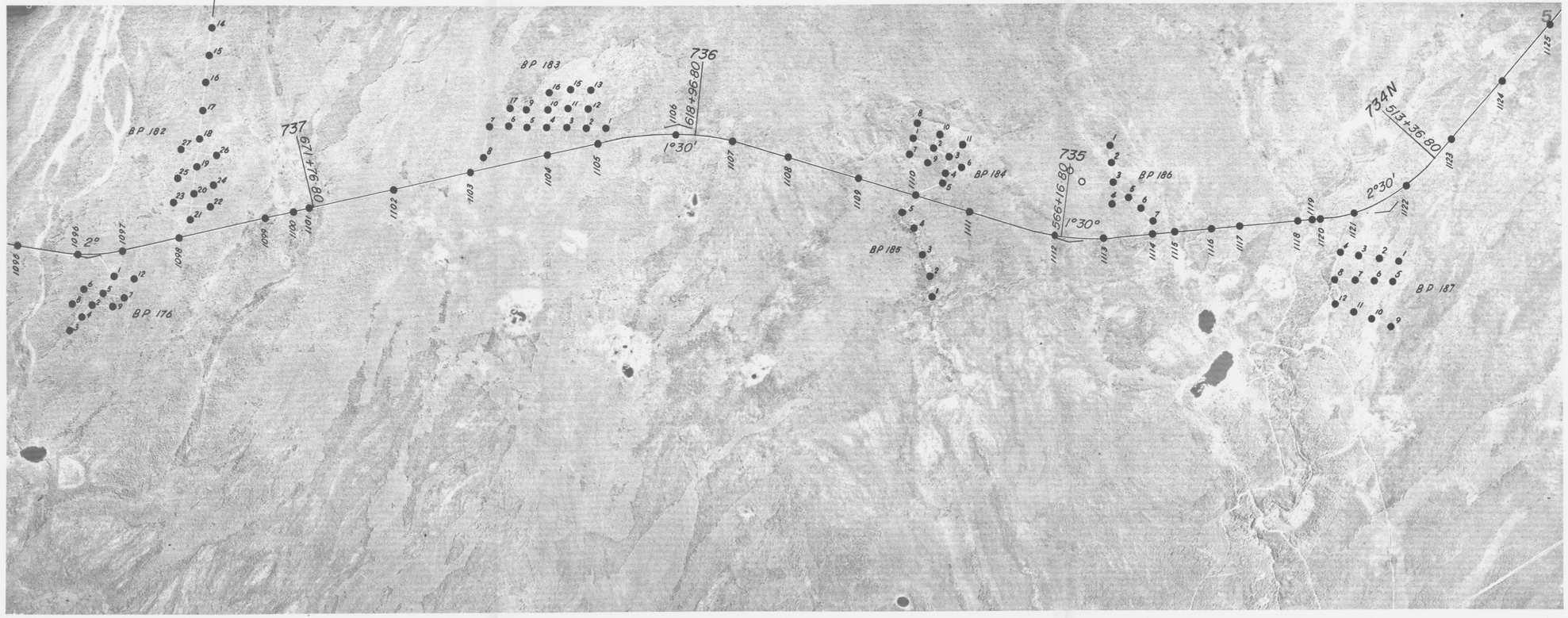
DEPARTMENT OF PUBLIC WORKS

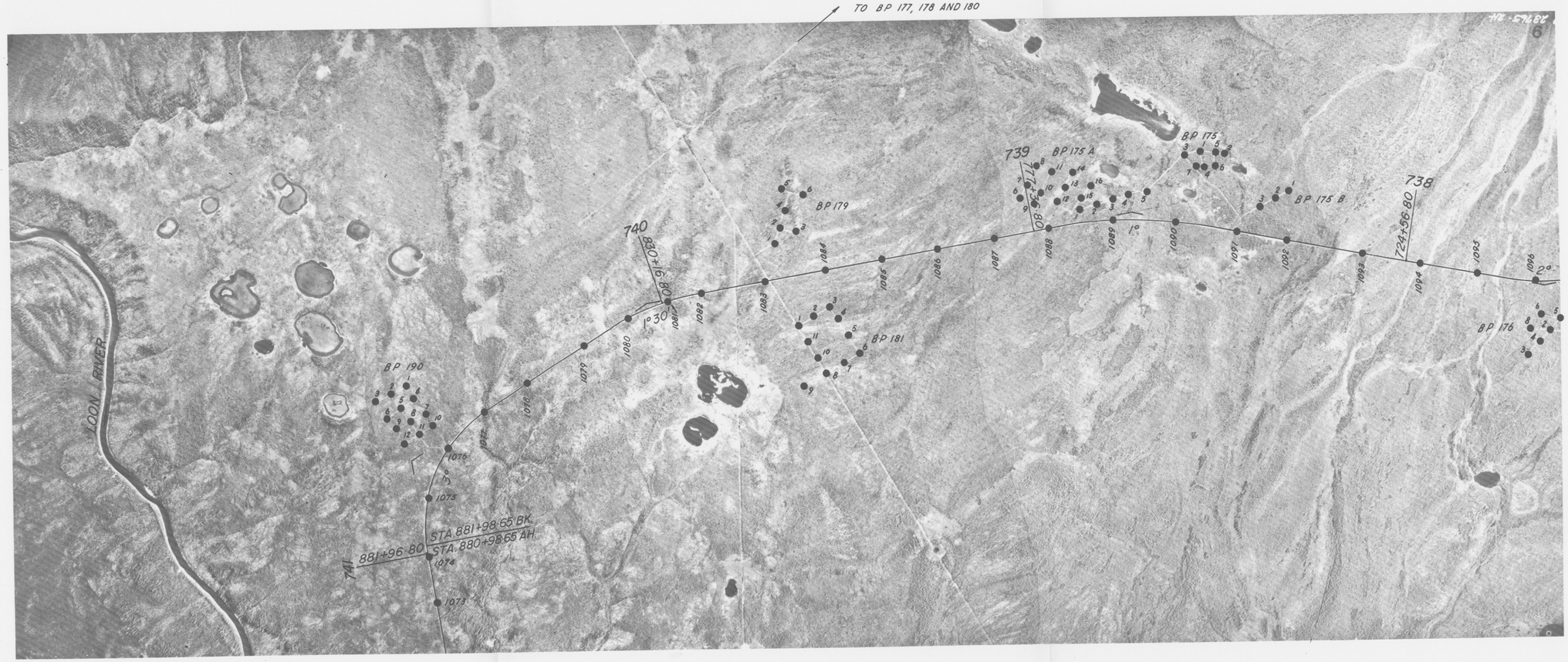
WESTERN REGION

REPORT ON
GEOTECHNICAL INVESTIGATION
MILE 725 TO MILE 936
MACKENZIE HIGHWAY

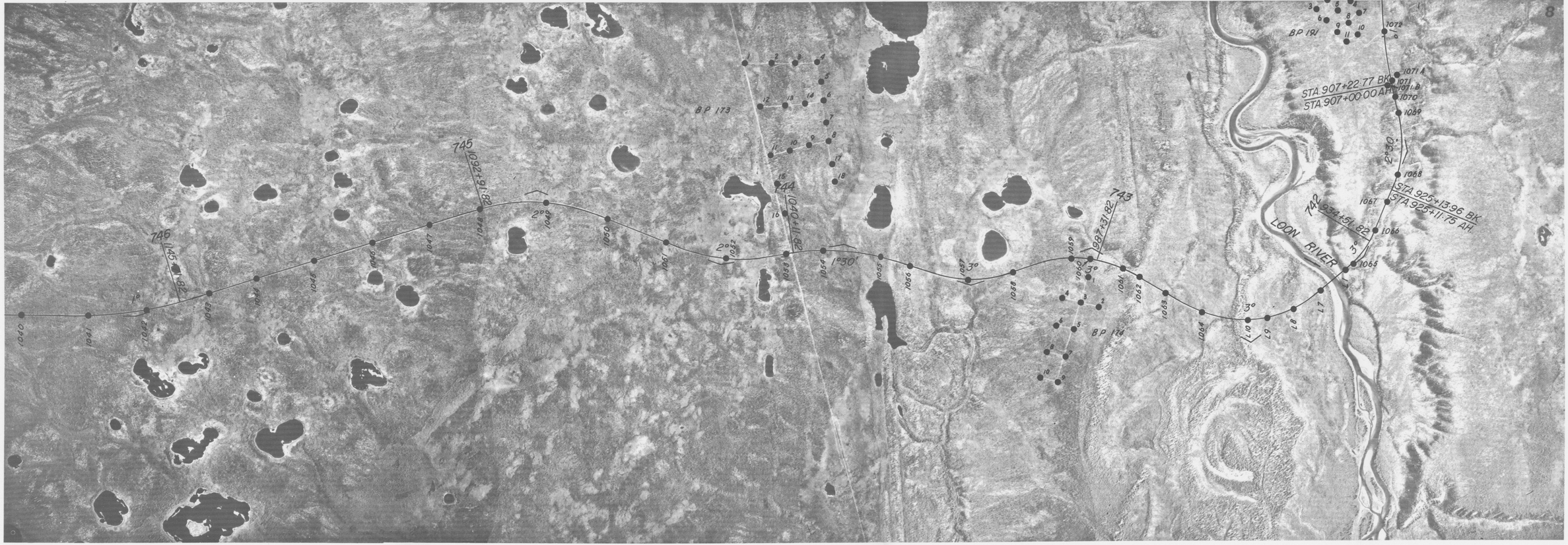
VOLUME 11
BOREHOLE LOGS AND AIRPHOTO MOSAICS

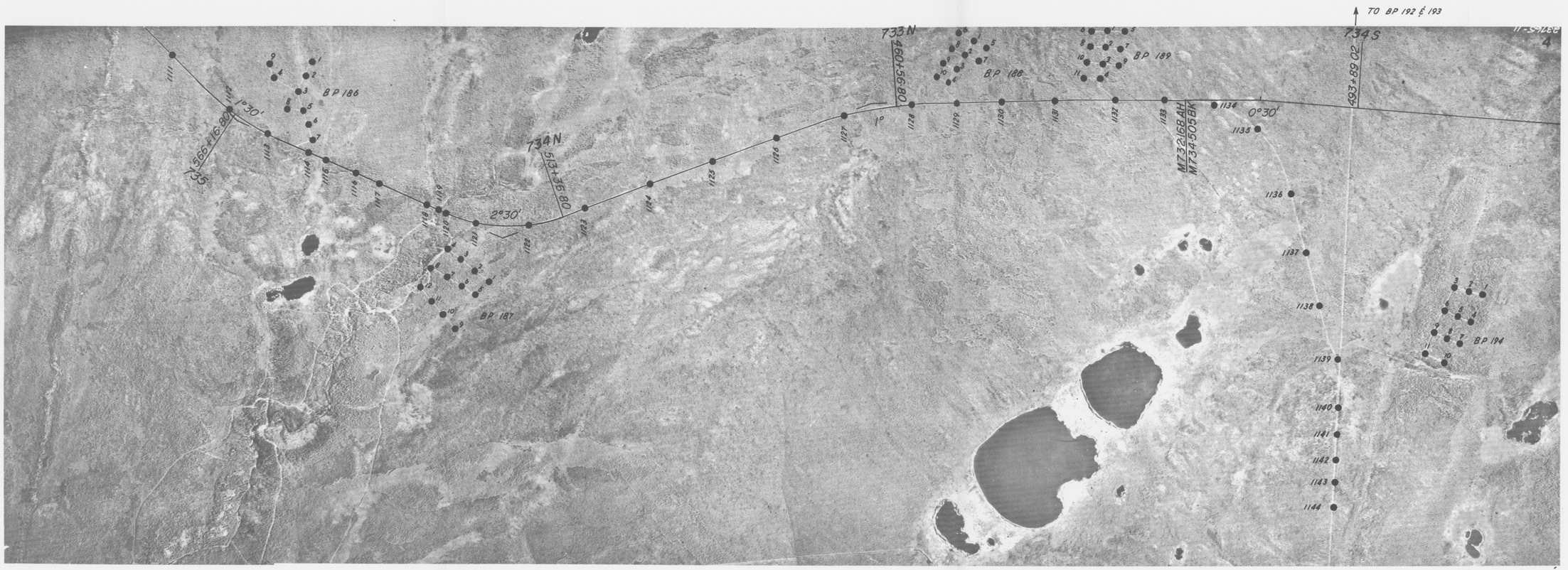
Mile 732 to Mile 747
Airphoto Mosaic #4 to #8
Centerline borehole logs #1037 to #1169
Borrow pits #173 to #196


BP 182
BP 183
BP 184
BP 185
BP 186
BP 187
BP 176
737
671+76.80
736
618+96.80
735
566+16.80
734N
513+36.80
2°
1°30'
1°30°
2°30'
5


TO BP 177, 178 AND 180
6
LOON RIVER
BP 190
BP 179
BP 181
BP 175
BP 175 A
BP 175 B
BP 176
739
740
738
741
881+96·80
STA 881+98·65 BK
STA 880+98·65 AH
880+16·80
724+56·80
1° 30'
1°
2°
1073
1074
1075
1076
1077
1078
1079
1080
1081
1082
1083
1084
1085
1086
1087
1088
1089
1090
1091
1092
1093
1094
1095
1096


743
987+31.82
B P 174
1059
1060
1061
1062
1063
1064
30°
742
LOON
RIVER
924+57.82
3°
2°30'
STA.925+11.75 AH
STA.925+53.96 BK
STA.907+22.77 BK
STA.907+00.00 AH
B P 191
741
881+96.80
STA 881+98.65 BK
STA 880+98.65 AH
B P 190
740
630+16.80
1°30'
B P 179
B P 181
TO B P 177, 178 AND 180


BP 191
STA 907+22.77 BK.
STA 907+00.00 AH.
2°30'
STA 925+13.96 BK.
STA 925+11.75 AH.
LOON RIVER
BP 173
BP 174
745
744
743
742
746
1032+91.82
1040+11.82
987+31.82
934+51.82
1°30'
2°
3°
8


TO BP 192 & 193
11-S-1434
4
733N
460+56.80
BP 186
BP 189
7345
493+89.02
734N
513+36.80
2°30'
1°30'
1°
0°30'
BP 187
BP 194
M734+50.96K
M732+68.4H
1111
1112
1113
1114
1115
1116
1117
1118
1119
1120
1121
1122
1123
1124
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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

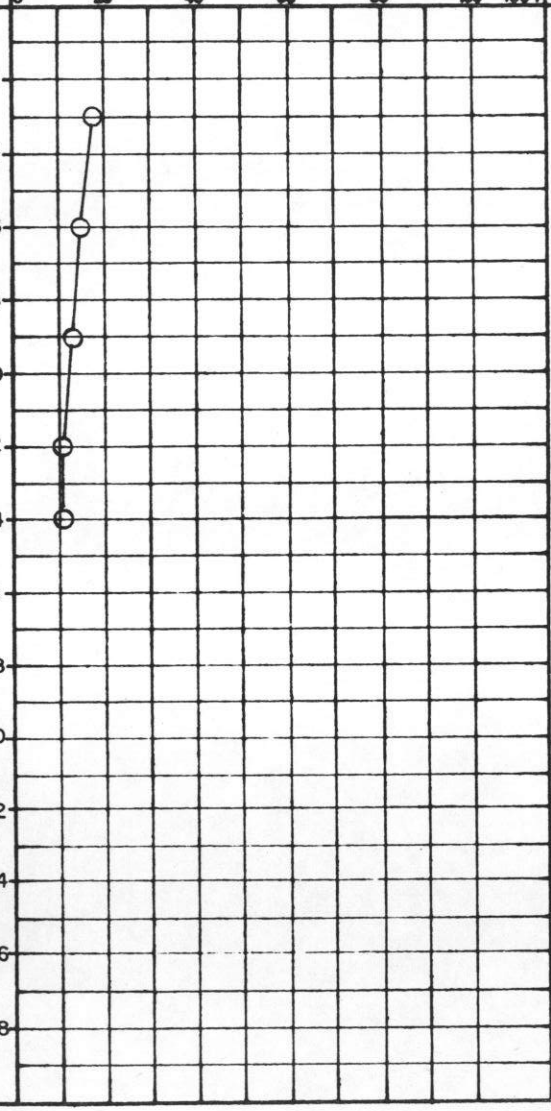
FIELD ENG. A. TENOUE | DATE DRILLED. 30/4/74 | AIRPHOTO NO. A22761 - 115 | CHAINAGE. 1198 + 00 | OFFSET. ℄

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

TEST HOLE 1037

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								
2						CLAY - SILTY							DAMP	
4						= SANDY		LOW						
6						- PEBBLES		ICE					DAMP	
8					Ci	MED. PLASTIC								
10							F	Vx					DAMP	
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

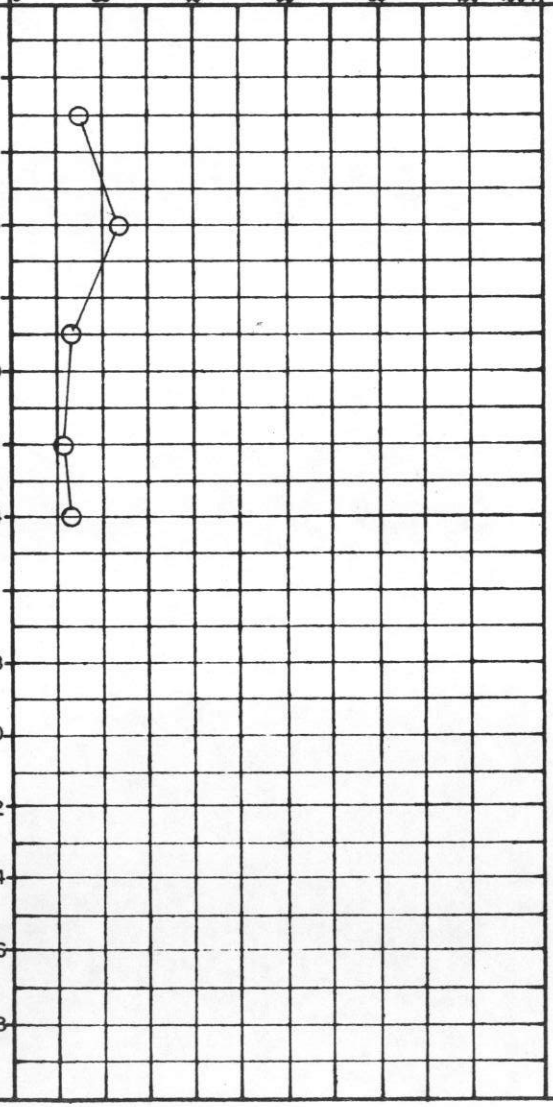
FIELD ENG. A. TENOUE	DATE DRILLED. 30/3/74	AIRPHOTO NO. A22761 - 115	CHAINAGE. 1190 + 00	OFFSET. D
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1038

MILE 746

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		MODERATE ICE Vc - Vr
2						CLAY - SILTY		
4						- SANDY		
6						- PEBBLES		
8					Cl	LOW - MED. PLASTIC		
10					Ci			LOW ICE Vx
12							F	
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 %		
				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 - 115	CHAINAGE. 1182 + 00	OFFSET. D
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

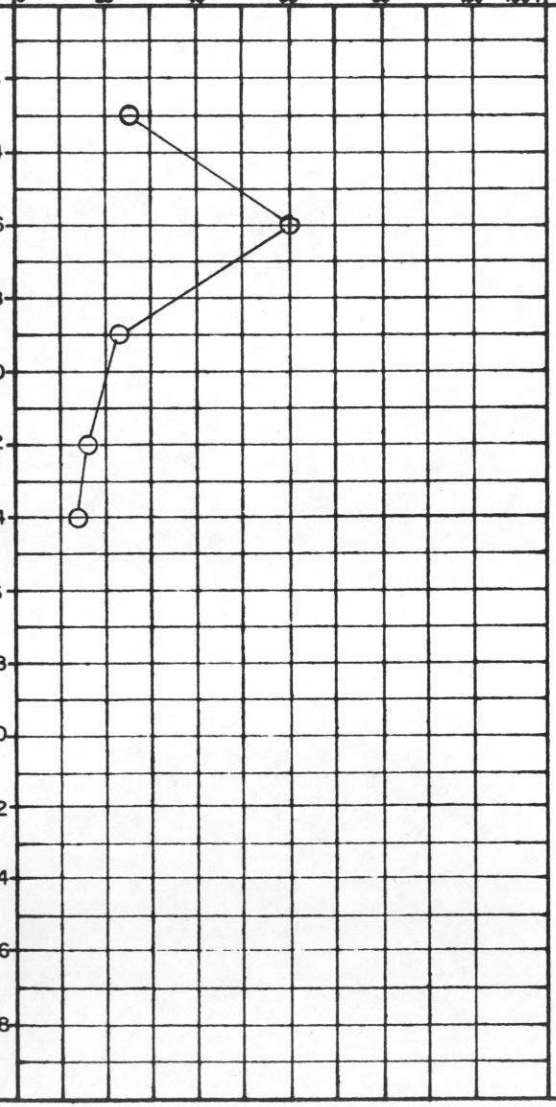
TEST HOLE 1039

MILE 746

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 1.5'			
2						CLAY - SILTY		HIGH ICE	FREE WATER
4						- SANDY			
6						- PEBBLES		Vs	FREE WATER
8					Cl	LOW PLASTIC			WET
10						MED. PLASTIC	F	LOW ICE	
12					Ci				MOIST
14								Vx	DAMP
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

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: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22761 - 115	CHAINAGE. 1172 + 00	OFFSET. ℄	TEST HOLE 1040
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 746

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		MODERATE ICE					MOIST	
4						CLAY - SILTY - SANDY - PEBBLES								
6					Cl	LOW - MED. PLASTIC		Vc - Vr					WET	
8													MOIST	
10					Ci		F	LOW ICE Vx					DAMP	
12													DAMP	
14														
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. 31/3/74	AIRPHOTO NO. A22761 - 115	CHAINAGE. 1161 + 00	OFFSET. C
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1041

MILE 746

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2						CLAY - SILTY		MODERATE ICE
4						- SANDY		Vc - Vr
6						- PEBBLES		
					Cl	LOW - MED. PLASTIC		
8					Ci			
10							F	LOW ICE
12								
14								Vx
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	DEPTH (FEET)
CLAY %	SILT %	SAND %	GRAVEL %		
				MOIST	2
				WET	6
				MOIST	8
				DAMP	12
				DAMP	14

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

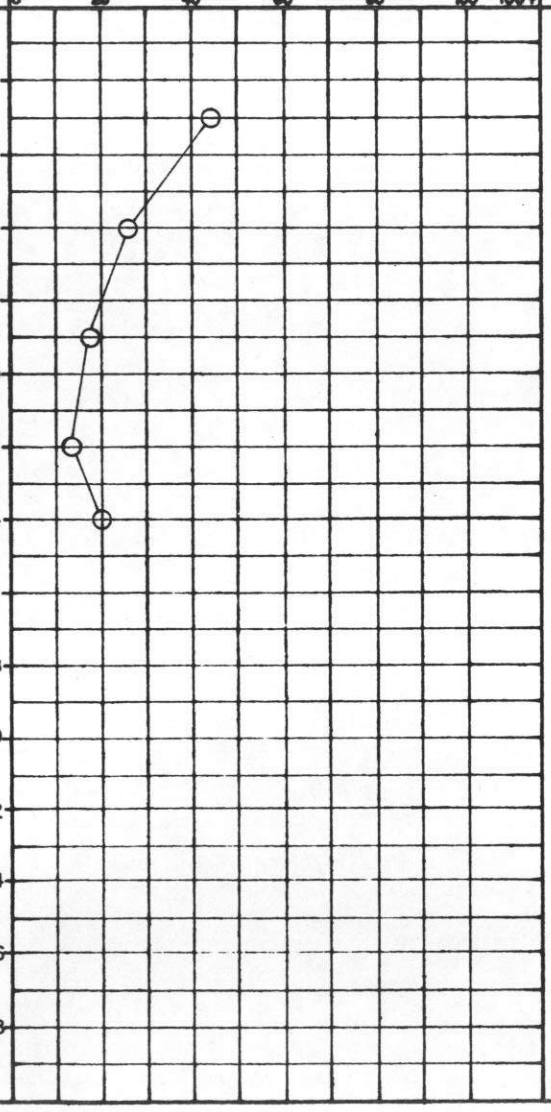
FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22761 - 115	CHAINAGE. 1151 + 00	OFFSET. B
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1042

MILE 746

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, ORG. TO 4'		HIGH ICE Vs
4						- SANDY		
6						- PEBBLES		
8						LOW PLASTIC		
10					Cl		F	MODERATE ICE
12								Vc - Vr
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 %		
				0 SAT.	
				6 SAT.	
				8 MOIST	
				12 MOIST	
				14 MOIST	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

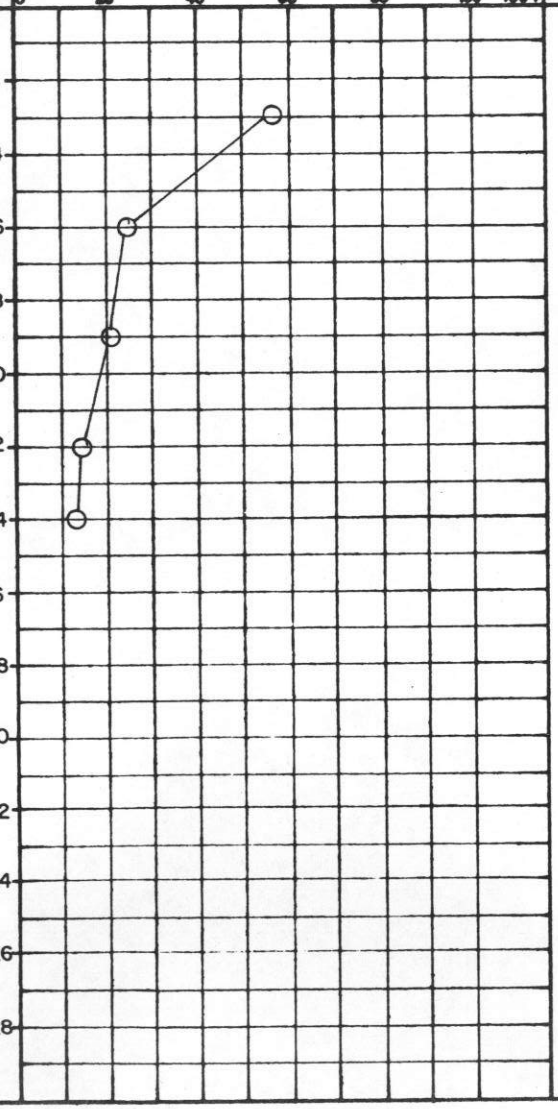
SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22761 - 113	CHAINAGE. 1140 + 00	OFFSET. E
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1043

MILE 745

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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'		HIGH ICE					FREE WATER	
2						CLAY - SILTY		Vs						
4						- SANDY							SAT.	
6						- PEBBLES								
8						LOW PLASTIC		MODERATE ICE Vc - Vr					WET	
10					Cl		F							
12								LOW ICE					MOIST	
14													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. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22761 - 113	CHAINAGE. 1132 + 00	OFFSET. D	TEST HOLE 1044
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 745

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		MODERATE ICE					MOIST	
4						- SANDY								
6						- PEBBLES		Vc - Vr					WET	
8					Cl	LOW - MED. PLASTIC								
10					Ci		F	LOW ICE					MOIST	
12													DAMP	
14								Vx					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. 31/1/74	AIRPHOTO NO. A22761 - 113	CHAINAGE. 1122 + 00	OFFSET. Ɓ	TEST HOLE 1045
TECH. JOHNSTON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 745

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 - SILTY		MODERATE ICE					WET	
4						± SANDY								
6					Cl	- PEBBLES		Vc - Vr					WET	
8						LOW - MED. PLASTIC								
10					Ci		F	LOW ICE Vx					HOLE IN BAG	
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. 31/3/74	AIRPHOTO NO. A22761 - 113	CHAINAGE. 1112 + 00	OFFSET. ℄	TEST HOLE 1046
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 745

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

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

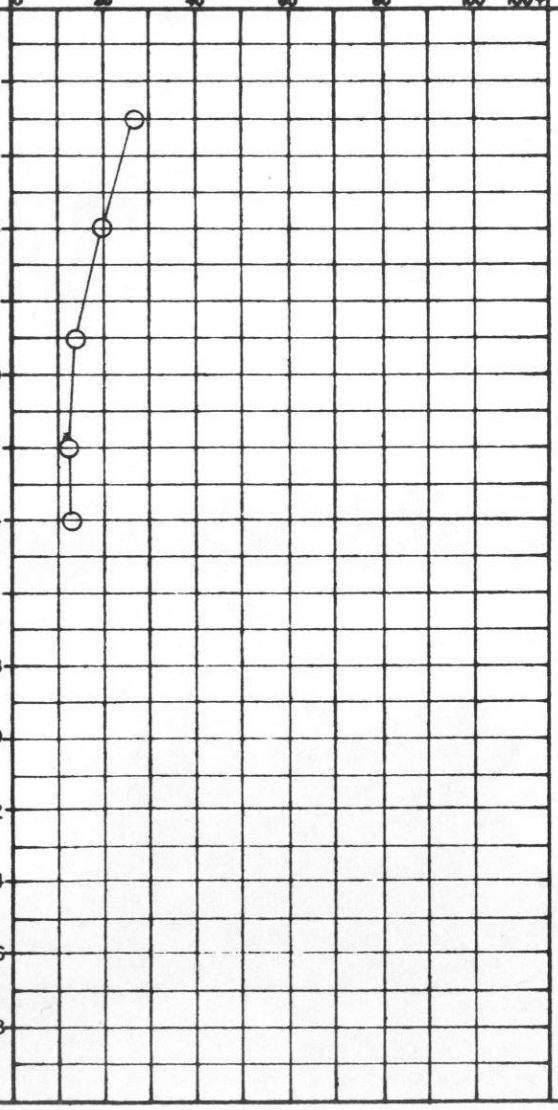
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22761 - 113	CHAINAGE. 1102 + 00	OFFSET. E	TEST HOLE 1047
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 745

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY - SILTY		MODERATE
4						- SANDY		ICE
						- PEBBLES		Vc - Vr
6					Cl	LOW - MED. PLASTIC		
8								LOW
					Ci		F	ICE
10								Vx
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)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					SAT.
4					
6					WET
8					
10					MOIST
12					DAMP
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: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22761 - 113	CHAINAGE. 1093 + 00	OFFSET. D	TEST HOLE 1048
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 745

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		
6						- PEBBLES		Vc - Vr
8					Cl	LOW - MED. PLASTIC		
10					Ci		F	Vx
12								LOW ICE
14								
16								Vx
18								
20								
22								
24								
26								
28								

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

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					WET	
6					WET	
8					MOIST	
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. 31/3/74	AIRPHOTO NO. A22761 - 113	CHAINAGE. 1083 + 00	OFFSET. D
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce, Tamarack 5"	ELEV.

TEST HOLE 1049

MILE 744

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

BOTTOM OF HOLE - 30'

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

PLASTIC LIMIT — LIQUID LIMIT

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	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

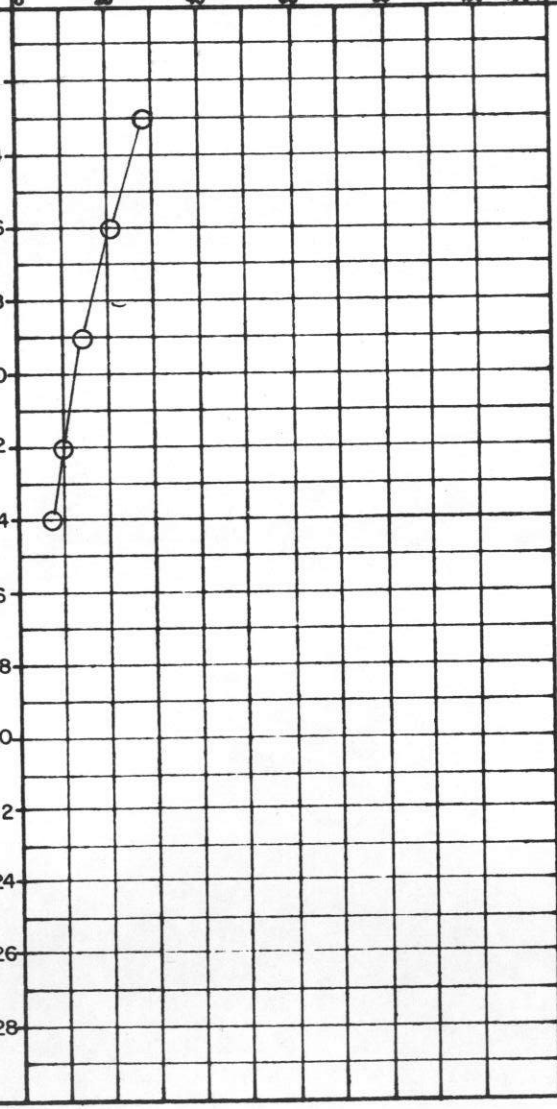
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22761 - 111	CHAINAGE. 1073 + 00	OFFSET. D	TEST HOLE 1050
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce, Tamarack 3"	ELEV.	MILE 744

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 - SILTY		MODERATE ICE	MOIST
4						- SANDY			
6						- PEBBLES		Vc - Vr	WET
8					Cl	MED. PLASTIC			MOIST
10							F	LOW ICE	DAMP
12								Vx	DAMP
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	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: SECTION D

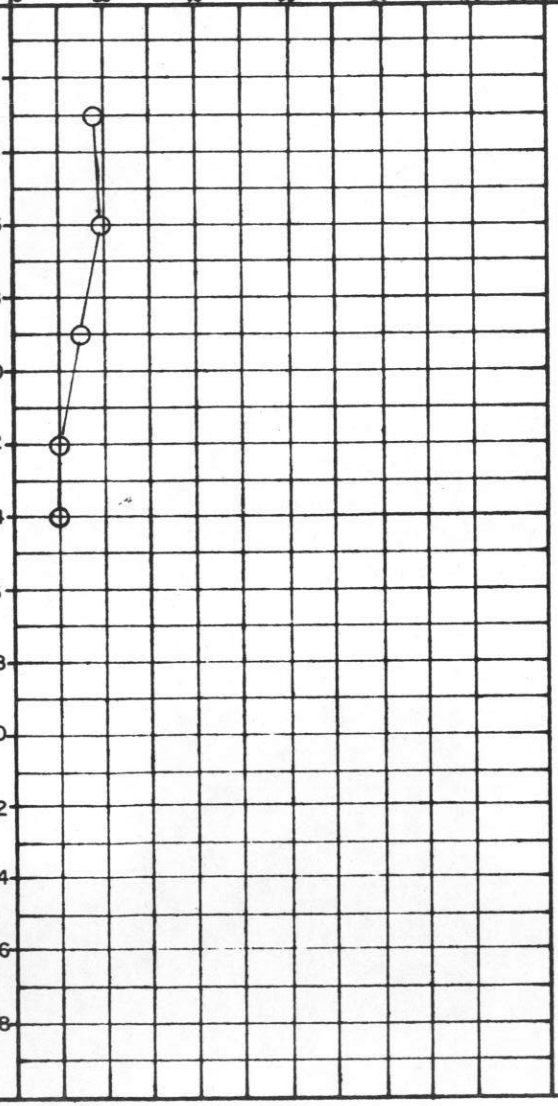
FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22761 - 111	CHAINAGE. 1063 + 00	OFFSET. ℄
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce, Tamarack 5"	ELEV.

TEST HOLE 1051

MILE 744

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
4						- SANDY		ICE
						- PEBBLES		Vc - Vr
6					Cl	LOW - MED. PLASTIC		
8								
10					Ci		F	LOW
12								ICE
14								Vx
16						ROCK CHIPS		
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 %		
				MOIST	
				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. 31/3/74	AIRPHOTO NO. A22761 - 111	CHAINAGE. 1052 + 00	OFFSET. E	TEST HOLE 1052
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce, Tamarack 5"	ELEV.	MILE 744

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 2'								
2					Cl	CLAY - SILTY - SANDY - PEBBLES LOW - MED. PLASTIC		LOW ICE					MOIST	
4														
6													MOIST	
8					Ci									
10								Vx					DAMP	
12						11'	F							
14					Sk	SAND - SILTY - PEBBLES COARSE - MED. GRAINED							DAMP	
16					Sw								WET	
18														
20														
22														
24														
26														
28														

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

▲ DRY DENSITY (lbs./ Ft.³) 40 60 80 100 120 140

⊙ WATER CONTENT (% of dry weight) 0 20 40 60 80 100 100+

△ 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

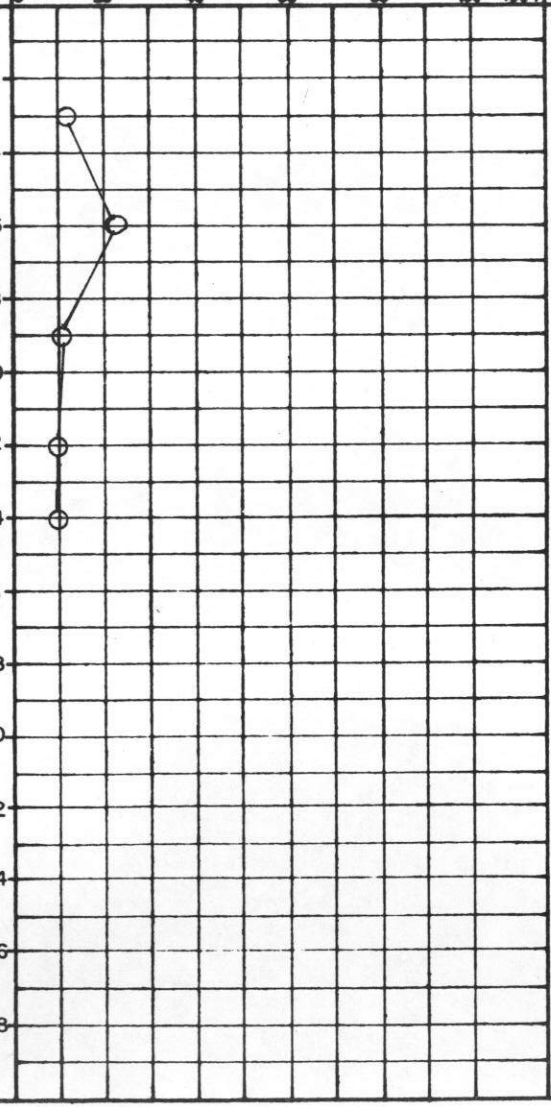
DRILL HOLE REPORT

SITE: SECTION S

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22761 - 111	CHAINAGE. 1042 + 00	OFFSET. ℄	TEST HOLE 1053
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce, Max 5"	ELEV.	MILE 744

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



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					MOIST	
6					WET	
8					MOIST	
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. 31/3/74	AIRPHOTO NO. A22761 - 111	CHAINAGE. 1036 + 00	OFFSET. D	TEST HOLE 1054
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce, Tamarack 5"	ELEV.	MILE 743

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 2'		HIGH ICE Vs						
2					Cl Ci	CLAY - SILTY SANDY ORGANIC 4'			71	27	2		WET	
4														
6						CLAY - SANDY - PEBBLES LOW - MED. PLASTIC		MODERATE TO LOW ICE Vc - Vr	42	52	6		SAT.	
8														
10					CL		F		48	49	3		WET	
12					Ci			Vx	49	43	8		MOIST	
14									54	42	4		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. 31/3/74	AIRPHOTO NO. A22761 - 111	CHAINAGE. 1026 + 00	OFFSET. ℄
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Poor	VEGETATION. Spruce, Tamarack 5"	ELEV.

TEST HOLE 1055

MILE 743

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
7'								
8					Cl	CLAY - SILTY SANDY PEBBLES LOW PLASTIC	F	MODERATE ICE
11'								
12					Sc	SAND - SILTY CLAYEY PEBBLES - GRAVELLY		Vc - Vr
16								

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						
4	579	-95	- 5	0	FREE WATER	
6	306	-61	- 39	0	SAT.	
8		-45	- 53	2	WET	
10						
12		-27	- 67	6	SAT.	
14		-34	- 46	20	WET	
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. 31/3/74	AIRPHOTO NO. A22762 - 135	CHAINAGE. 1021 + 00	OFFSET. D	TEST HOLE 1056
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce, Birch Max4"	ELEV.	MILE 743

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		ICE
4						- GRAVELLY		
6						LOW PLASTIC		Vc - Vr
8					Cl			
10								LOW
12							F	ICE
14						PEBBLES		Vx
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
CLAY %	SILT %	SAND %	GRAVEL %	
-37	- 53	10		WET
-36	- 49	15		WET
-48	- 42	10		MOIST
-38	- 48	14		MOIST
-51	- 45	4		MOIST

REMARKS

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. 31/3/74	AIRPHOTO NO. A22762 - 135	CHAINAGE. 1011 + 00	OFFSET. Ɛ	TEST HOLE 1057
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Poor	VEGETATION. Spruce, Max. 3"	ELEV.	MILE 743

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1.5'		
2						CLAY - SANDY		
4						- SILTY		
						- PEBBLES		MODERATE
6					Cl	LOW PLASTIC		
8						8'		ICE
10					Sl	SAND - CLAYEY SILTY	F	Vc - Vr
12					Sm	SILTY MED. - FINE		
14						PEBBLES		
16								
18								
20								
22								
24								
26								
28								

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

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2	51	- 46	3		MOIST	
6	56	- 37	7		WET	
8	37	- 61	2		MOIST	
12	13	- 87	0		WET	
14	13	- 83	4		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. 31/3/74	AIRPHOTO NO. A22762 - 135	CHAINAGE. 1003 + 00	OFFSET. D	TEST HOLE 1058
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 10"	ELEV.	MILE 743

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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								
4						- SANDY		MODERATE	-66	-	33	1	Wet	
6						- PEBBLES		ICE	-56	-	40	4	SAT.	
8					Cl	LOW PLASTIC			-58	-	41	1	MOIST	
10						10'		Vc - Vr						
12						SAND - SILTY	F		-14	-	86	0	WET	
14					Sm	FINE - MEDIUM			-17	-	83	0	WET	
16														
18														
20														
22														
24														
26														
28														

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

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160 180+

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. 31/3/74	AIRPHOTO NO. A22762 - 135	CHAINAGE. 992 + 00	OFFSET. C	TEST HOLE 1059
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max 5"	ELEV.	MILE 743

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 1.5'								
2					Cl	CLAY - SILTY SANDY PEBBLES LOW PLASTIC 7'		MODERATE ICE	-47	-	44	9	SAT.	
6					Sm	SAND - SILTY FINE - MEDIUM PEBBLES 11'		Vc - Vr	-52	-	45	3	SAT.	
8									-25	-	72	3	WET	
10							F							
12					Ml	SILT - CLAYEY SANDY PEBBLES			-73	-	23	4	MOIST	
14									-53	-	44	3	WET	
16														
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

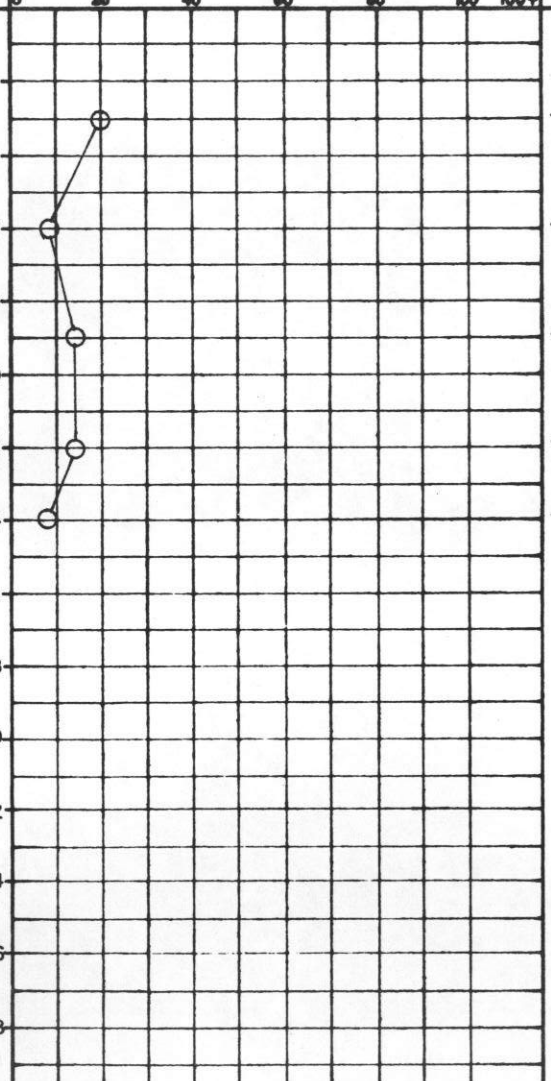
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22762 - 137	CHAINAGE. 989 + 00	OFFSET. ℄	TEST HOLE 1060
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce 12" Birch 4"	ELEV.	MILE 743

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 Ci	CLAY - SILTY SANDY PEBBLES LOW - MED. PLASTIC 5'		LOW
4								
6					Sm Ml	SAND - SILT - PEBBLES MIXTURE 8'		ICE
8								
10					Cl	CLAY SANDY SILTY PEBBLES 11'	F	Vx
12					Sm	SAND - SILTY PEBBLES FINE - MEDIUM 14'		
14								
16					Cl Ci	CLAY - SILTY - SANDY - PEBBLES LOW - MED. PLASTIC		
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						
4	-52	-	48	0	WET	
6	-53	-	45	2	MOIST	
8						
10	-58	-	41	1	MOIST	
12	-23	-	75	2	MOIST	
14	-61	-	35	4	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: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22762 - 137	CHAINAGE. 983 + 00	OFFSET. C	TEST HOLE 1061
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 6"	ELEV.	MILE 742

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
2					Pt	PEAT 1'								
4						CLAY - SANDY - SILTY LOW PLASTIC GRAVELLY		HIGH ICE Vs	-56	-	44	0	FREE WATER	
6									-38	-	47	15	SAT.	
8					Cl	ORGANIC 8'-10' PEBBLES			-46	-	38	16	SAT.	
10							F	LOW ICE Vx						
12									-50	-	42	8	WET	
14									-48	-	49	3	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: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22762 - 137	CHAINAGE. 980 + 00	OFFSET. Ct	TEST HOLE 1062
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 4"	ELEV.	MILE 742

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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						SAND - CLAY MIX. PEBBLES		HIGH ICE	-50	-	46	4	FREE WATER	
4					Cl	LOW PLASTIC 5'								
6						SAND - CLAYEY		Vs	-36	-	61	3	SAT.	
8						- SILTY								
10					Sc	- PEBBLES 11'	F	MODERATE ICE	-33	-	62	5	SAT.	
12						CLAY - SILTY		Vc - Vr TO LOW ICE	-77	-	22	1	WET	
14						- SANDY			-71	-	29	0	WET	
16						- PEBBLES								
18					Cl									
20					Ci	LOW - MED. PLASTIC		Vx						
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+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG.

DATE DRILLED. 2/4/74

AIRPHOTO NO.

CHAINAGE. 977+00

OFFSET.

TECH. Weber

RIG. Mayhew #1

SURFACE DRAINAGE.

VEGETATION.

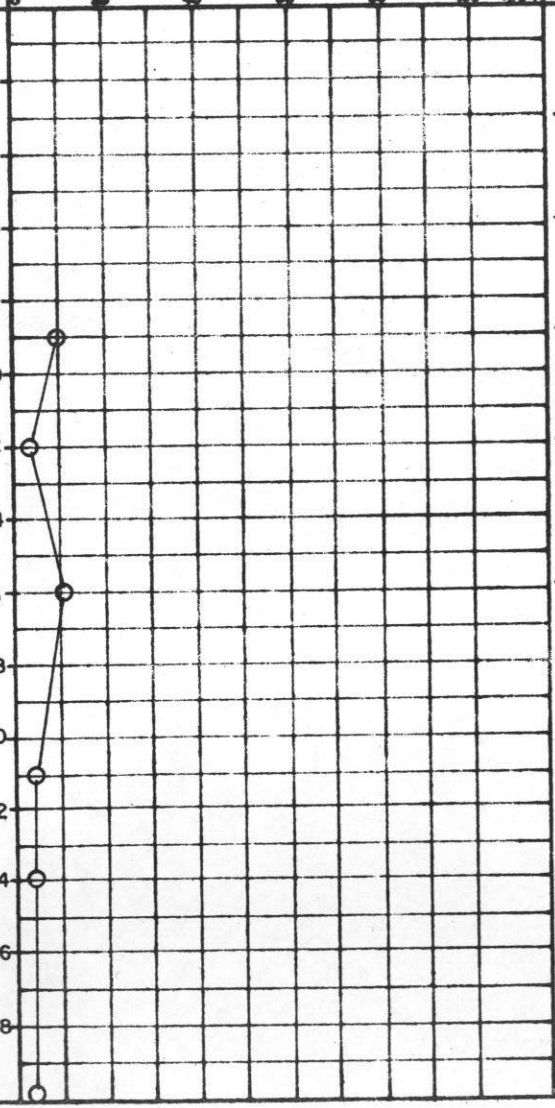
ELEV.

TEST HOLE 1062A

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT — 2'		High Ice						
4						CLAY - Silty			-95-	5	0			Hole in Bag
6						- Organic to 4'								
8					CL	- Low Plastic			-98-	2	0			Hole in Bag
10						Silty - Sandy Pebbles			-40-	54	6		Moist	
12						— 11'		Low Ice	-10-	82	8			Hole in Bag
14						SAND - Silty Pebbles	F							
16									-11-	87	2		Wet	
18								Vx						
20					SM	Gravelly			- 9-	79	12		Wet	
22														
24									-12-	71	17		Damp	
26														
28						Bottom of Hole - 30'			-11-	60	29		Damp	

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

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22762 - 137	CHAINAGE. 975 + 00	OFFSET. D	TEST HOLE	1063
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 7"	ELEV.	MILE	742

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'		HIGH ICE Vs						
2						CLAY - SILTY ORGANIC TO 4'			-99	-	1	0	WET	
4														
6									-98	-	2	0	FREE WATER	
8						8'								
10					Cl Sc Ml	SAND - CLAY - SILT MIX. LOW PLASTIC	F	MODERATE TO LOW ICE Vc - Vr	-64	-	36	0	HOLE	IN BAG
12						13'			-45	-	51	4	WET	
14						GRAVEL - SANDY SILTY		Vx	-13	-	40	47	HOLE	IN BAG
16					Gp									
18														
20						20								
22					Sc	SAND - CLAYEY SILTY PEBBLES								
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.

DATE DRILLED. 2/4/74

AIRPHOTO NO.

CHAINAGE. 972+50

OFFSET.

TECH. Weber

RIG. Mayhew #1

SURFACE DRAINAGE.

VEGETATION.

ELEV.

TEST HOLE 1063A

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT — 2'		High Ice						
4						CLAY - Silty		Vs	-94-	6	0		Wet	
6					CL	- Sandy - Low Plastic		Moderate	-89-	11	0			Open Bag
8						— 8'		Ice						
10						SAND - Silty			- 9-	91	0		Moist	
12					SM		F	Vc-Vr					Wet	
14														
16									-42-	58	0			Open Bag
18														
20									-15-	85	0		Wet	Open Bag
22														
24						Pebbles			- 8-	86	6		Wet	
26														
28						Gravelly			-12-	68	20		Wet	

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'

B074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG.

DATE DRILLED. 2/4/74

AIRPHOTO NO.

CHAINAGE. 970+00

OFFSET.

TECH. Weber

RIG. Mayhew #1

SURFACE DRAINAGE.

VEGETATION.

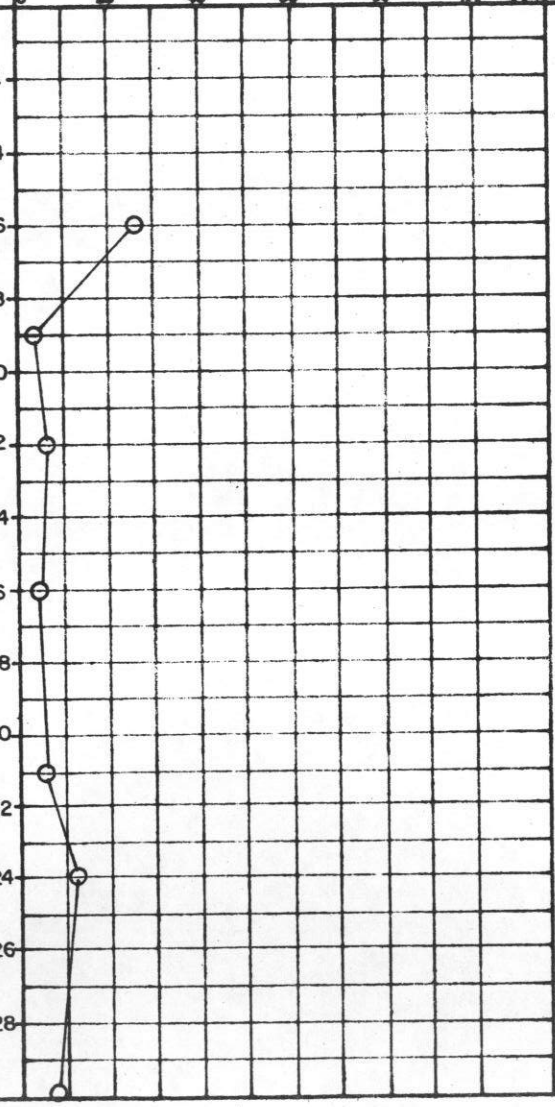
ELEV.

TEST HOLE 1063B

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		High Ice						
2					CL	CLAY - Organic to 4' - Silty - Sandy - Low plastic		Vs	-81-		19	0		Hole in Bag
6													Sat.	
7														
8					SM	SAND - Gravelly - Silty	F	Moderate Ice					Moist	
12									-12-		72	16	Wet	
16					SC	CLAYEY		Vc-Vv	-12-		73	15	Moist	
22									-12-		73	15	Wet	
23														
24					SP	SAND - Fine			- 9-		91	0	Wet	
28						Bottom of Hole - 30'							Wet	

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+



8074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22762 - 137	CHAINAGE. 968 + 00	OFFSET. D	TEST HOLE 1064
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 4"	ELEV.	MILE 742

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'								
2					Cl	CLAY - SILTY SILT - CLAYEY		HIGH ICE	-96	-	4	0	WET	
4					Ml	ORGANIC TO 9'		Vs						
6						7'			-94	-	6	0	FREE WATER	
8						GRAVEL - SANDY			-12	-	37	51	SAT.	
10						- CLAYEY		MODERATE						
12							F	TO	- 9	-	46	43	SAT.	
14								LOW	-10	-	32	58	MOIST	
16					Gc	GRAVEL - SAND MIXTURE		ICE Vc - Vr						
18						CLAYEY		Vx						
20														
22														
24														
26														
28														

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG.	DATE DRILLED. 2/4/74	AIRPHOTO NO.	CHAINAGE. 965+50	OFFSET.
TECH. Weber	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1064A

MILE

REMARKS

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT		High Ice					
2						2'							
4					CL CI	CLAY - Silty - Organic		Vs	-93-		7	0	Wet
6						5'							
8					SC	SAND - Gravelly - Clayey		Low	-31-		49	20	Moist
10								Ice	-13-		61	26	Wet
12						11'	F						
14					GP	GRAVEL - Sandy			- 7-		38	55	Moist
16						15'		Vx	-11-		52	37	Moist
18					GC	GRAVEL - SAND MIX - Clayey							
20									-12-		48	40	Moist
22													
24									- 8-		40	52	Moist
26													
28						Bottom of Hole - 30'			- 9-		47	44	Moist

B074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 31/3/74	AIRPHOTO NO. A22762 - 137	CHAINAGE. 940 + 25	OFFSET. D	TEST HOLE 1065
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce 8" Alder	ELEV.	MILE 742

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						SAND - SILTY		LOW
4					Sp	- GRAVELLY TO 4		TO
6								MODERATE
						7'		
8						GRAVEL - SAND - SILT MIXTURE		ICE
10						CLAYEY		
12							F	Vx
14					Gc			Vc - Vr
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+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2						
4	14 - 60		26		WET	
6	32 - 68		0		WET	
8						
10	21 - 47		32		WET	
12	27 - 32		41		WET	
14	15 - 39		46		WET	
16						
18						
20						
22						
24						
26						
28	18 - 42		40		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. 1/4/74	AIRPHOTO NO. A22762 - 137	CHAINAGE. 933 + 00	OFFSET. ℄	TEST HOLE 1066
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 7"	ELEV.	MILE 741

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 LOW PLASTIC		HIGH ICE Vs	-73	-	27	0	WET	
4														
6						7'			-43	-	57	0	FREE WATER	
8						SAND - SILTY GRAVELLY		MODERATE ICE	-21	-	69	10	WET	
10							F							
12					Sp				-28	-	61	11	WET	
14								Vc - Vr	-21	-	62	17	WET	
16														
18														
20														
22														
24														
26														
28									-15	-	72	13	WET	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

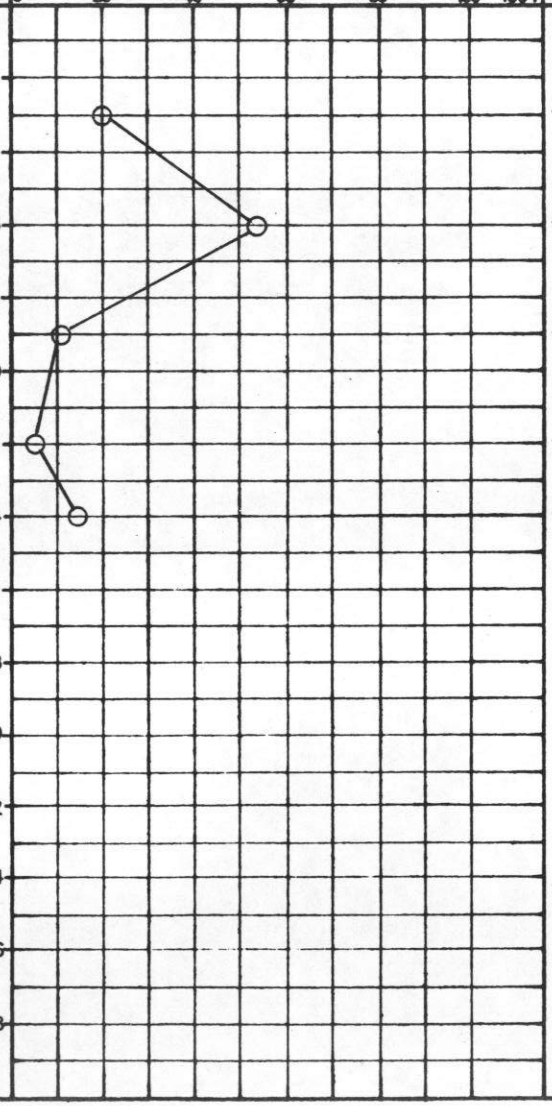
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. A. TENOUE	DATE DRILLED. 1/4/74	AIRPHOTO NO. A22762 - 137	CHAINAGE. 928 + 00	OFFSET. E	TEST HOLE 1067
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce, Tamarack 5"	ELEV.	MILE 741

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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		HIGH						
4						- SANDY		ICE	-47	-	53	0	SAT.	
6						- PEBBLES		Vs	-55	-	40	5	FREE WATER	
8						8'								
10					Sc	SAND - GRAVELLY	F	MODERATE TO LOW ICE	-23	-	50	27	WET	
12					Sm	- SILTY CLAYEY TO 10'			-12	-	49	39	WET	
14								Vc - Vr	-13	-	71	16	MOIST	
16								Vx						
18														
20														
22														
24														
26														
28														

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
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. 1/4/74	AIRPHOTO NO. A22762 - 137	CHAINAGE. 923 + 00	OFFSET. ℄	TEST HOLE 1068
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 4"	ELEV.	MILE 741

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+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'								
2					Cl	CLAY - SANDY - SILTY - PEBBLES LOW PLASTIC	F	HIGH ICE Vs	-59	-	40	1	WET	
6									-64	-	35	1	FREE WATER	
8								MODERATE ICE	-63	-	36	1	WET	
12						12'			-49	-	45	6	WET	
14					Cl	SAND - CLAY - SILT MIXTURE LOW PLASTIC		Vc - Vr	-50	-	50	0	WET	
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. 1/4/73	AIRPHOTO NO. A22761 - 108	CHAINAGE. 912 + 00	OFFSET. ℄	TEST HOLE 1069
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 10"	ELEV.	MILE 741

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'		HIGH ICE Vs						
2					Sm	SAND - SILTY MED.-FINE GRAINED 4'			-37	-	63	0	WET	
4														
6					Cl	CLAY - SILTY LOW PLASTIC SANDY			-92	-	8	0	SAT.	
8								MODERATE ICE Vc - Vr						
10						10'			-76	-	24	0	WET	
12						SAND - SILTY	F		-44	-	56	0	WET	
14					Sm				-16	-	84	0	WET	
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. 1/4/74	AIRPHOTO NO. A22761 - 108	CHAINAGE. 909 + 50	OFFSET. ℄	TEST HOLE 1070
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 6"	ELEV.	MILE 741

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 - SANDY - SILTY ORG. TO 4'		HIGH ICE	-53	-	47	0	WET	
4														
6					Ci	LOW - MED. PLASTIC			-52	-	48	0	FREE WATER	
8														
10					Cl	CLAY - SANDY - GRAVELLY	F	Vs	-33	-	51	16	SAT.	
12						SAND - CLAYEY - PEBBLES			-31	-	61	8	FREE WATER	
14					Sc				-50	-	44	6	HOLE IN BAG	
16														
18														
20														
22														
24														
26														
28														

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 1/4/74	AIRPHOTO NO. A22761 - 108	CHAINAGE. 907 + 00	OFFSET. D
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 8"	ELEV.

TEST HOLE 1071

MILE 741

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 LOW PLASTIC 5'			-58	-	39	3	SAT.	
6					Sc Cl	SAND - CLAY - SILT MIXTURE 7'			-47	-	50	3	WET	
8					Cl	CLAY - SANDY PEBBLES LOW PLASTIC 10'			-44	-	53	3	WET	
12						SAND - CLAYEY - SILTY			-38	-	58	4	MOIST	
14					Sc	- PEBBLES 15'			-56	-	39	5	DAMP	
18					Cl	CLAY - SILTY - SANDY - PEBBLES LOW - MED. PLASTIC								
22					Ci									

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG.	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 907+00	OFFSET. 50' Rt. ℄
TECH. W. Baine	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1071A

MILE 741

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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			54	44	2		Wet	
4														
						- Pebbles		Low						
6						- Low Plastic			43	52	5		Wet	
					CL									
8														
									44	52	4		Moist	
10							F	Ice						
12									43	54	3		Moist	
14														
16								Vx	42	52	6		Moist	
18														
20														
									65	31	4		Damp	
22						Med. Plastic								
					CI									
24									67	31	2		Moist	
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 80 100 120 140 160+

B074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

FIELD ENG.

DATE DRILLED. 4/4/74

AIRPHOTO NO.

CHAINAGE. 907+00

OFFSET. 50' Lt. &

TECH. W. Baine

RIG. Mayhew #1

SURFACE DRAINAGE.

VEGETATION.

ELEV.

TEST HOLE 1071B

MILE 741

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 — 4'		Low
4					SM	SAND - Silt Mix - Clayey		
6					ML	- Pebbles		Ice
8								
10						— 11'		
12						CLAY - Sandy - Silty - Pebbles	F	Vx
14					CL			
16						Low-med. Plastic		
18					CI			
20								
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
0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
-47-		49	4	Wet	
-41-		53	6	Wet	
-52-		47	1	Moist	
-57-		41	2	Damp	
-69-		31	0	Damp	
-62-		33	5	Damp	
-56-		37	7	Damp	

B074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 1/4/74	AIRPHOTO NO. A22761 - 108	CHAINAGE. 899 + 00	OFFSET. Ø	TEST HOLE 1072
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spuce Max. 4"	ELEV.	MILE 741

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 2'								
2-4					Gc	CLAY - SAND - GRAVEL MIXTURE 4'		MODERATE TO LOW ICE	-29	-	30	41	WET	
4-6						CLAY - SANDY PEBBLES TO GRAVELLY			-45	-	51	4	HOLE	IN BAG
6-8					Cl	LOW PLASTIC			-39	-	49	12	WET	
8-10								Vc - Vr						
10-12									-42	-	44	14	DAMP	
12-14								Vx	-41	-	59	0	DAMP	
14-16														
16-18														
18-20														
20-22														
22-24														
24-26														
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. D. COOK	DATE DRILLED. 1/4/74	AIRPHOTO NO. A22761 - 108	CHAINAGE. 890 + 00	OFFSET. ℄	TEST HOLE 1073
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 4"	ELEV.	MILE 741

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 Ci	CLAY - SILTY - SANDY - PEBBLES LOW - MED. PLASTIC		MODERATE TO LOW ICE	-63	-	33	4	SAT.	
4														
6									-41	-	51	8	MOIST	
8						8'								
10					Cl	CLAY - SAND MIXTURE PEBBLES LOW PLASTIC 13'	F	Vc - Vr	-40	-	40	20	WET	
12									-45	-	49	6	DAMP	
14						CLAY - SANDY - SILTY		Vx	-52	-	38	10	DAMP	
16					Cl	PEBBLES TO GRAVELLY								
18					Ci	LOW - MED. PLASTIC								
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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 108	CHAINAGE. 882 + 00	OFFSET. D	TEST HOLE 1074
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 4"	ELEV.	MILE 741

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 1.5'								
2						CLAY - SILTY		MODERATE ICE					MOIST	
4						- SANDY								
6						- PEBBLES		Vc - Vr						
8					Cl	LOW - MED. PLASTIC							WET	
10					Ci			LOW ICE					WET	
12							F						WET	
14								Vx					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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 108	CHAINAGE. 875 + 00	OFFSET. ℄	TEST HOLE 1075
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 4"	ELEV.	MILE 740

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
0					Pt	PEAT 1.5		MODERATE ICE Vc - Vr					WET	
2						CLAY - SILTY - SANDY - PEBBLES LOW PLASTIC								
4													WET	
6														
8								LOW ICE Vx					MOIST	
10					Cl		F						DAMP	
12													DAMP	
14														
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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 108	CHAINAGE. 867 + 00	OFFSET. ℄	TEST HOLE	1076
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 4"	ELEV.	MILE	740

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	REMARKS
0					Pt	PEAT 1'								
2						CLAY - SILTY								
4					Cl	- SANDY		LOW	WET					
6					Ci	- PEBBLES LOW - MED. PLASTIC		ICE	MOIST					
8						8'								
10					Sc	SAND - SILTY - CLAYEY - PEBBLES		Vx	WET DAMP					
12						13'	F							
14						CLAY - SILTY			DAMP					
16						- SANDY								
18					Cl	- PEBBLES								
20					Ci	LOW - MED. PLASTIC								
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 80 100 120 140 100+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 108	CHAINAGE. 860 + 25	OFFSET. D	TEST HOLE 1077
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 6"	ELEV.	MILE 740

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2					Sc	SAND - SILTY CLAYEY PEBBLES 4'		HIGH ICE Vs
4								
6					Cl	CLAY - SILTY SANDY PEBBLES LOW - MED. PLASTIC	F	MODERATE ICE Vc - Vr
8								LOW ICE Vx
10					Ci			
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+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				0 FREE WATER	
				6 WET	
				8 MOIST	
				12 MOIST	
				14 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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 108	CHAINAGE. 853 + 00	OFFSET. B	TEST HOLE 1078
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 5"	ELEV.	MILE 740

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

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1.5								
2					Cl	CLAY - SILTY SANDY PEBBLES MED. PLASTIC 5'		MODERATE ICE Vc - Vr					MOIST	
6					Sc	SAND - SILTY CLAYEY PEBBLES 8'							WET	
8													WET	
10					Cl	CLAY - SILTY - SANDY - PEBBLES	F	LOW ICE Vx					DAMP	
14					Ci	LOW - MED. PLASTIC							DAMP	
16														
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 108	CHAINAGE. 843 + 00	OFFSET. ℄	TEST HOLE 1079
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack	ELEV.	MILE 740

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 106	CHAINAGE. 835 + 00	OFFSET. ℄	TEST HOLE 1080
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack 6"	ELEV.	MILE 740

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1.5'		
2						CLAY - SILTY		MODERATE
4						- SANDY		ICE
6						- PEBBLES		Vc - Vr
8					Cl	LOW PLASTIC		
10							F	
12								LOW
14								ICE
16								Vx
18								
20								
22								
24								
26								
28								

DEPTH (FEET)

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

PLASTIC LIMIT — LIQUID LIMIT

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

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				SAT.	
				SAT.	
				SAT.	
				MOIST	
				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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 106	CHAINAGE. 830 + 00	OFFSET. ℄	TEST HOLE 1081
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack 7"	ELEV.	MILE 739

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+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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						CLAY - SILTY		MODERATE ICE					SAT.	
6						- SANDY								
8						- PEBBLES		Vc - Vr					WET	
10						LOW PLASTIC								
12					Cl		F	LOW ICE					WET	
14								Vx					DAMP	
16													DAMP	
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 106	CHAINAGE. 824 + 00	OFFSET. Ⓒ	TEST HOLE 1082
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack 7"	ELEV.	MILE 739

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

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

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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 106	CHAINAGE. 814 + 50	OFFSET. ℄	TEST HOLE 1083
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 7"	ELEV.	MILE 739

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						SAND - CLAYEY		MODERATE					WET	
4					Sc	- SILTY		ICE					WET	
6													WET	
8								Vc - Vr					WET	
10						11'	F							
12						CLAY - SILTY							WET	
14						- SANDY							WET	
16					Cl	LOW PLASTIC								
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 80 100 120 140 100+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 106	CHAINAGE. 806 + 00	OFFSET. D	TEST HOLE 1084
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 6"	ELEV.	MILE 739

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
4						- SANDY		ICE
6						- PEBBLES		Vc - Vr
					Cl	LOW - MED. PLASTIC		
8							F	
10					Ci			LOW
12								ICE
14								Vx
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)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2						
4					MOIST	
6					WET	
8					MOIST	
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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 106	CHAINAGE. 798 + 00	OFFSET. D	TEST HOLE 1085
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 4"	ELEV.	MILE 739

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'								
2						CLAY - SILTY								
4						- SANDY		LOW					DAMP	
6						- PEBBLES								
8						LOW - MED. PLASTIC		ICE					MOIST	HOLE IN BAG
10					Cl		F						MOIST	
12					Ci			Vx					DAMP	HOLE IN BAG
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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 106	CHAINAGE. 790 + 00	OFFSET. Ⓒ	TEST HOLE 1086
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	MILE 739

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					HOLE IN BAG	
4						- SANDY		ICE						
6						- PEBBLES		Vc - Vr					WET	
8						LOW PLASTIC								
8					Cl			LOW					MOIST	
10							F							
12								ICE					DAMP	
14								Vx					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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 106	CHAINAGE. 782 + 00	OFFSET. D	TEST HOLE 1087
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	MILE 739

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 - SILTY							MOIST	
4						- SANDY								
6						- PEBBLES		LOW					MOIST	HOLE IN BAG
						MED. PLASTIC		ICE						
8					Ci								MOIST	
10								Vx						
							F						MOIST	
12														
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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 106	CHAINAGE. 774 + 00	OFFSET. ℄	TEST HOLE 1088
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair → Poor	VEGETATION. Spruce	ELEV.	MILE 738

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 - SILTY							MOIST	
4						- SANDY		LOW						
6					Cl	- PEBBLES LOW - MED. PLASTIC		ICE					HOLE IN BAG	
8					Ci			Vx					MOIST	
10							F							
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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 104	CHAINAGE. 765 + 00	OFFSET. Rt	TEST HOLE 1089
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	MILE 738

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 .5'				
2						CLAY - SILTY		MODERATE		
4						- SANDY		ICE		HOLE IN BAG
6					Cl	- PEBBLES		Vc - Vr	WET	
8						LOW - MED. PLASTIC				
10					Ci		F	LOW	MOIST	
12								ICE	DAMP	
14								Vx	DAMP	
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 %

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 104	CHAINAGE. 756 + 00	OFFSET. Ō	
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce	ELEV.	

TEST HOLE 1090

MILE 738

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

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

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

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 104	CHAINAGE. 748 + 00	OFFSET. ℄	TEST HOLE 1091
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	MILE 738

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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							MOIST	
4						- SANDY		LOW						
6					Cl	- PEBBLES LOW PLASTIC		ICE					MOIST	
8													MOIST	
10														
12							F	Vx					DAMP	
14													DAMP	
16														
18														
20														
22														
24														
26														
28														

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 104	CHAINAGE. 741 + 00	OFFSET. ℄
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Birch	ELEV.

TEST HOLE 1092

MILE 738

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						CLAY - SANDY							DAMP	
4						- SILTY		MODERATE						
6						- PEBBLES		&						
8					Cl	LOW - MED. PLASTIC		LOW					WET	
10					Ci			ICE					WET	
12							F	Vc - Vr					DAMP	
14								Vx					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. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 104	CHAINAGE. 730 + 00	OFFSET. D	TEST HOLE 1093
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	MILE 738

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 - SILTY SANDY PEBBLES		MODERATE ICE	61	31	8		WET	
4						ORGANIC TO 4'								
6					Cl	LOW - MED. PLASTIC		Vc - Vr	49	34	17		WET	
8					Ci				65	30	5		WET	
10							F	LOW ICE						
12									63	25	12		MOIST	
14									58	40	2		DAMP	
16								Vx						
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 104	CHAINAGE. 722 + 00	OFFSET. D	TEST HOLE 1094
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.	MILE 737

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 .5'									
2						CLAY - SILTY SANDY GRAVELLY			2					WET	
4						LOW - MED. PLASTIC			4						
6					Cl	PEBBLES		LOW	6					WET	
8					Ci		F	ICE	8					HOLE	IN BAG
10								Vx	10					DAMP	
12						GRAVELLY			12					DAMP	
14									14						
16									16						
18									18						
20									20						
22									22						
24									24						
26									26						
28									28						

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 104	CHAINAGE. 714 + 00	OFFSET. ℄	TEST HOLE 1095
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.	MILE 737

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					MOIST	
4						- PEBBLES								
						LOW - MED. PLASTIC		ICE						
6					Cl								HOLE IN BAG	
8					Ci			Vx					MOIST	
10							F							
12													DAMP	
14													DAMP	
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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 104	CHAINAGE. 706 + 00	OFFSET. ℄	TEST HOLE 1096
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.	MILE 737

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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								
						- SANDY							DAMP	
4						- PEBBLES		LOW						
6						LOW - MED. PLASTIC								
					Cl								HOLE IN BAG	
8								ICE						
					Ci								HOLE IN BAG	
10														
							F							
12						PEBBLES TO GRAVELLY		Vx					DAMP	
14													DAMP	
16														
18														
20														
22														
24														
26														
28														

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 102	CHAINAGE. 700 + 00	OFFSET. ℄
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.

TEST HOLE 1097

MILE 737

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY - SILTY		MODERATE
						- SANDY		ICE
4						- PEBBLES		
6						LOW - MED. PLASTIC		Vc - Vr
					Cl			
8								
					Ci			LOW
10							F	
12								ICE
14								
								Vx
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 %		
				MOIST	
				SAT.	
				MOIST	
				DAMP	
				DAMP	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 102	CHAINAGE. 692 + 00	OFFSET. D
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.

TEST HOLE 1098

MILE 737

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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							WET	
2						CLAY - SILTY								
						- SANDY		LOW						
4						- PEBBLES								
						LOW - MED. PLASTIC		ICE					HOLE IN BAG	
6					Cl									
8													DAMP	
					Ci									
10							F							
													DAMP	
12								Vx						
14													DAMP	
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 80 140 100 109+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 2/4/74	AIRPHOTO NO. A22761 - 102	CHAINAGE. 680 + 00	OFFSET. D	
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	TEST HOLE 1099
					MILE 737

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
2					Pt	PEAT .5'			
4						CLAY - SANDY			
6						- SILTY		LOW	
8					Cl	- PEBBLES			
10					Ci	LOW - MED. PLASTIC	F	ICE	
12								Vx	
14									
16									
18									
20									
22									
24									
26									
28						SILT CLAYEY 26' - 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	
				HOLE IN BAG	
				DAMP	
				DAMP	
				DAMp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 102	CHAINAGE. 676 + 00	OFFSET. D	TEST HOLE 1100
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE.	VEGETATION. Spruce	ELEV.	MILE 737

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								
						- SANDY							DAMP	
4						- PEBBLES		LOW						
6						GRAVELLY							MOIST	
								ICE						
8													DAMP	
10						PEBBLES	F							
12					Cl	LOW - MED. PLASTIC		Vx					DAMP	
14					Ci								DAMP	
16														
18														
20														
22														
24														
26														
28					Ml	SILT CLAYEY 25' - 30'								

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 102	CHAINAGE. 672 + 00	OFFSET. ℄	
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce	ELEV.	TEST HOLE 1101
					MILE 737

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		
4						- SANDY		
						- PEBBLES		HIGH ICE Vs
6					Cl	ORGANIC TO 4'		
8						LOW PLASTIC		
10							F	LOW ICE
12								
14						15'		Vx
16						SILT - CLAYEY		
18					Ml			
20								
22								
24						CLAY - SILTY		
26					Cl Ci	- SANDY - PEBBLES		
28								

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

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

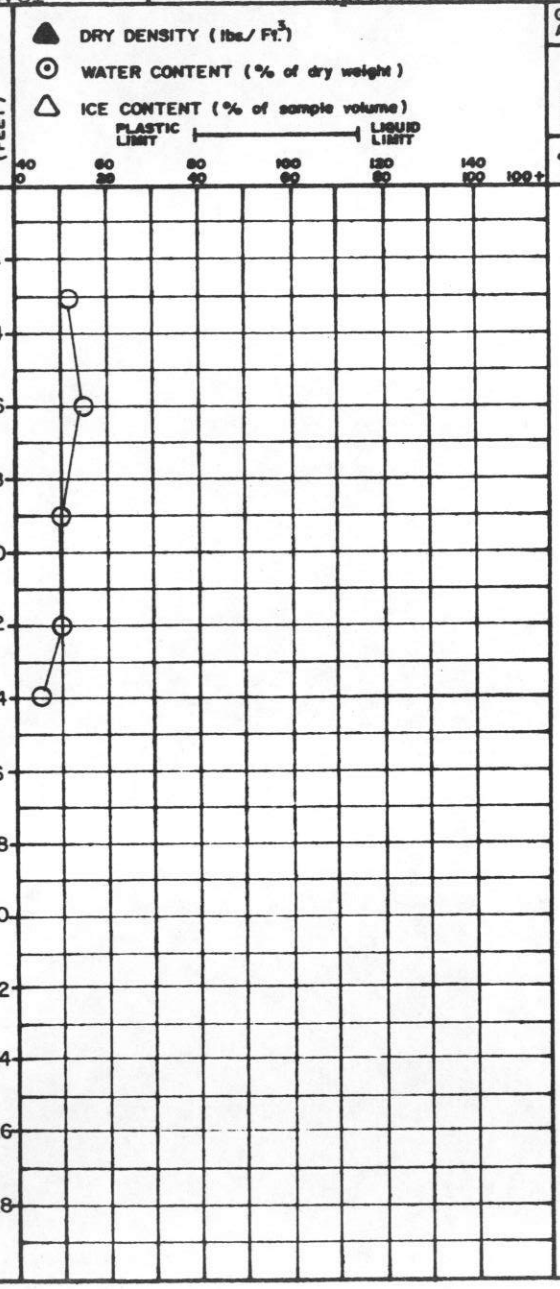
SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 102	CHAINAGE. 662 + 00	OFFSET. C
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.

TEST HOLE 1102

MILE 736

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY - SILTY		
						- SANDY		
4						- PEBBLES		LOW
6						MED. PLASTIC		
								ICE
8								
10					Ci		F	
12								Vx
14								
16								
18								
20								
22								
24								
26								
28								



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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 102	CHAINAGE. 651+00	OFFSET. D		
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.	TEST HOLE	1103
					MILE	736

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 - ORGANIC TO 4'								
						SILTY - SANDY							MOIST	
4					Cl	PEBBLES		LOW						
6						LOW - MED. PLASTIC							DAMP	
					Ci									
8						8'		ICE						
					Sc	SAND - CLAYEY							MOIST	
10						10'								
12					Cl	CLAY - SILTY		Vx					DAMP	
						- SANDY								
14					Ci	- PEBBLES	F						HUMID	
						15'								
16						SILT - CLAYEY								
18														
20					Ml									
22														
24														
						25'								
26						CLAY - SILTY SANDY								
						PEBBLES								
28					Cl Ci									

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 102	CHAINAGE. 640 + 00	OFFSET. D	TEST HOLE 1104
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.	MILE 736

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 ORG. TO 4'							MOIST	
4						- SANDY		LOW						
6						- PEBBLES							MOIST	
						LOW - MED. PLASTIC		ICE						
8					Cl								DAMP	
10					Ci	SHALE FRAGS.								
12							F						DAMP	
						GRAVELLY		Vx						
14													DAMP	
16														
18														
20														
22														
24														
26														
28														

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 102	CHAINAGE. 633 + 00	OFFSET. ℄	TEST HOLE 1105
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.	MILE 736

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 .5'								
2						CLAY - SILTY		MODERATE					SAT.	
4						- SANDY		ICE						
6						- PEBBLES		Vc - Vr					SAT.	
8						LOW PLASTIC								
10					Cl	GRAVELLY	F	LOW					MOIST	
12						PEBBLES		ICE					DAMP	
14													DAMP	
16								Vx						
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 100	CHAINAGE. 622 + 00	OFFSET. ℄	TEST HOLE 1106
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.	MILE 736

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 - ORGANIC TO 4'							MOIST	
4						- SILTY								
6						- SANDY		LOW					DAMP	
8						- PEBBLES								
10					Cl	LOW - MED. PLASTIC		ICE					MOIST	
12					Ci		F	Vx					DAMP	
14													DAMP	
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+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761-100	CHAINAGE. 614 + 00	OFFSET. ℄	TEST HOLE 1107
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	MILE 735

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
0–1					Pt	PEAT 1'								
1–4					Sc	SAND - CLAYEY - SILTY 4'		LOW	DAMP					
4–8					Cl	CLAY - SILTY - SANDY - PEBBLES LOW - MED. PLASTIC		ICE	WET / DAMP					
8–12					Ci		F	Vx	DAMP					
12–14						GRAVELLY			DAMP					

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

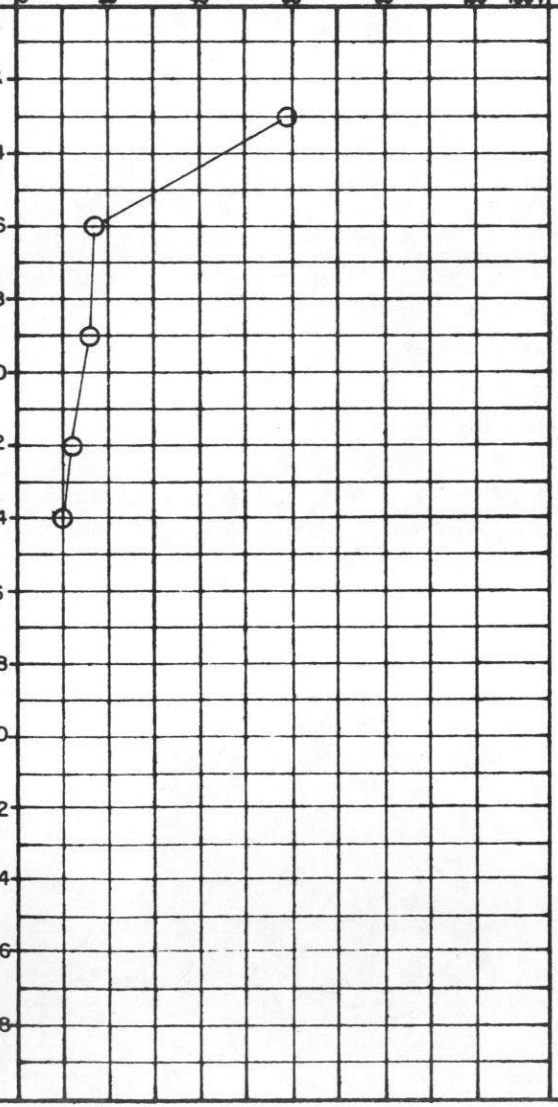
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 100	CHAINAGE. 606 + 00	OFFSET. D	TEST HOLE 1108
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.	MILE 735

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 - SANDY		ICE
						- SILTY		
4						- PEBBLES		Vs
6					Cl	LOW - MED. PLASTIC		
8								LOW
10					Ci		F	
12								ICE
14						GRAVELLY		
16								Vx
18								
20								
22								
24								
26								
28								

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



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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 100	CHAINAGE. 596 + 00	OFFSET. ℄	TEST HOLE 1109
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	MILE 735

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 - SILTY							DAMP	
4						- SANDY		LOW						
						- PEBBLES								
6					Cl	LOW - MED. PLASTIC		ICE					DAMP	
8														
					Ci								DAMP	
10								Vx						
12							F						DAMP	
14						GRAVELLY							DAMP	
16														
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 100	CHAINAGE. 588 + 00	OFFSET. ℄	TEST HOLE 1110
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	MILE 735

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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								
4						- SANDY							DAMP	
						- PEBBLES								
6					Cl	LOW - MED. PLASTIC		LOW					MOIST	
8								ICE						
10					Ci		F						MOIST	
12													MOIST	
14						GRAVELLY		Vx					DAMP	
16														
18														
20														
22														
24														
26														
28														

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 100	CHAINAGE. 573 + 00	OFFSET. ℄	TEST HOLE	1111
TECH. JOHNSON	RIG. Mayhew #2	SURFACE DRAINAGE. Level	VEGETATION. Spruce	ELEV.	MILE	735

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 - SILTY		LOW ICE					DAMP	
4						- SANDY								
6					Cl	- PEBBLES LOW - MED. PLASTIC	F						WET	
8					Ci								MOIST	
10								Vx						
12													DAMP	
14						15'							DAMP	
16						BOTTOM OF HOLE - 15'								
18														
20														
22														
24														
26														
28														

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 100	CHAINAGE. 568 + 00	OFFSET. E
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 4"	ELEV.

TEST HOLE 1112

MILE 735

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 - SILTY							DAMP	
4						- SANDY		LOW						
6					Cl	- PEBBLES							WET	
8						LOW - MED. PLASTIC		ICE						
10							F						MOIST	
12					Ci								DAMP	
14								Vx					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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 100	CHAINAGE. 561 + 00	OFFSET. ℄	TEST HOLE 1113
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce 6"	ELEV.	MILE 734

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 - SILTY		LOW	52	-	39	9	DAMP	
4						- SANDY								
6					Cl	- PEBBLES		ICE	61	-	28	11	WET	
8						LOW - MED. PLASTIC								
10								Vx	52	-	28	20	MOIST	
12					Ci		F		57	-	32	11	DAMP	
14									63	-	30	7	DAMP	
16														
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 100	CHAINAGE. 554 + 00	OFFSET. D
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce 5"	ELEV.

TEST HOLE 1114

MILE 734

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 1.5								
2						CLAY - SILTY		MODERATE ICE					WET	
4						- SANDY								
6						- PEBBLES		Vc - Vr					WET	
8					Cl	LOW - MED. PLASTIC							MOIST	
10					Ci		F	LOW						
12													DAMP	
14								ICE					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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 551 + 00	OFFSET. ℄
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 8"	ELEV.

TEST HOLE 1115

MILE 734

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 Vc - Vr					WET	
2					Sc	SAND - CLAYEY - SILTY - PEBBLES 5'							WET	
6					Cl	CLAY - SILTY - SANDY - PEBBLES LOW - MED. PLASTIC	F	LOW					MOIST	
12					Ci			ICE Vx					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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 546 + 00	OFFSET. Ⓛ	TEST HOLE 1116
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack	ELEV.	MILE 734

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

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

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 %		
				MOIST	
				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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 542 + 00	OFFSET. D
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack	ELEV.

TEST HOLE 1117

MILE 734

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 - ORGANIC TO 4'								
4						- SILTY		LOW					MOIST	
6						- SANDY							WET	
8						- PEBBLES		ICE						
10					Cl	LOW - MED. PLASTIC	F						MOIST	
12					Ci			Vx					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

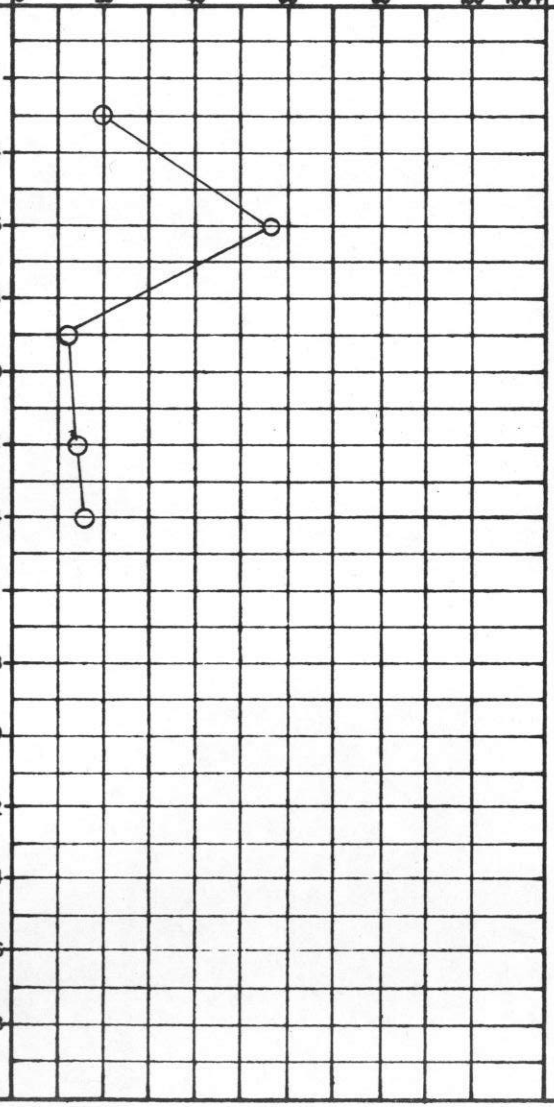
FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 534 + 00	OFFSET. North Bank Creek
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 8"	ELEV.

TEST HOLE 1118

MILE 734

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 1.5								
2					Cl	CLAY - SILTY SANDY PEBBLES 4'		MODERATE & HIGH ICE					WET	
4					Pt	PEAT 7'							MOIST	
8					Sc	SAND - GRAVELLY - CLAYEY 11'	F						WET	
12					Cl	CLAY - SILTY SANDY GRAVELLY PEBBLES LOW - MED. PLASTIC		Vc - Vr					MOIST	
14					Ci			Vs					MOIST	

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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 532 + 25	OFFSET. Creek	TEST HOLE 1119
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 8"	ELEV.	MILE 734

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	
4.5								Vs						
4.5						CLAY - SILTY SANDY GRAVELLY PEBBLES		MODERATE ICE					DAMP	
10					Cl	LOW - MED. PLASTIC							WET	
12					Ci		F	Vc - Vr					MOIST	
14													WET	
16								LOW ICE						
20								Vx						

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 531 + 00	OFFSET. South Bank Creek	TEST HOLE 1120
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce - Max. 7"	ELEV.	MILE 734

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		MODERATE
4						- SANDY		
6						- PEBBLES		ICE
8						LOW PLASTIC		Vc - Vr
10					Cl		F	
12								
14								
16								LOW
18								ICE
20								Vx
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 80 100 120 140 109+

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				DAMP	
				SAT.	
				WET	
				MOIST	
				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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 526 + 00	OFFSET. ℄	TEST HOLE 1121
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 4"	ELEV.	MILE 734

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
4						- SANDY		&
6						- PEBBLES		
						LOW PLASTIC		LOW
8					Cl			
10							F	ICE
12						13'		
14						SAND - CLAYEY		Vc - Vr
16					Sc	17'		
18						CLAY - SILTY		Vx
20						- SANDY		
22						- PEBBLES		
					Cl	LOW PLASTIC		
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										
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.	
					DAMP	
					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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 518 + 00	OFFSET.	TEST HOLE 1122
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack	ELEV.	MILE 734

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		
4						- SANDY		MODERATE
6						- PEBBLES		ICE
8						LOW PLASTIC		
10					Cl			Vc - Vr
12							F	
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 %		
				WET	
				WET	
				MOIST	
				WET	
				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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 507 + 00	OFFSET. D	TEST HOLE 1123
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack 5"	ELEV.	MILE 733

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

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT								
2						2'								
4					Sc	SAND - CLAYEY - SILTY		LOW					WET	
6						5'								
8						CLAY - SILTY - SANDY		ICE					HOLE IN BAG	
10					Cl	PEBBLES							MOIST	
12					Ci	LOW - MED. PLASTIC	F	Vx					MOIST	
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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 497 + 00	OFFSET. ℄
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.

TEST HOLE 1124

MILE 733

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

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT ⟷ LIQUID LIMIT

0 20 40 60 80 100 120 140 160 180+

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

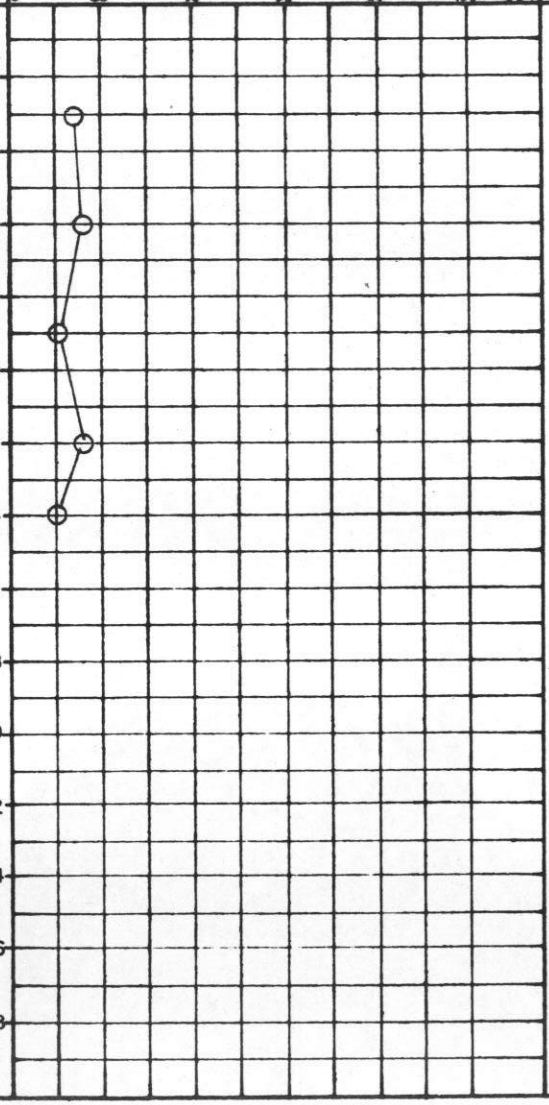
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 488 + 00	OFFSET. ℄	TEST HOLE 1125
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	MILE 733

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1.5'		LOW
2						CLAY - SILTY		
4						- SANDY		&
						- PEBBLES		
6					Cl	LOW PLASTIC		MODERATE
8						8'		ICE
						SILT - CLAYEY SANDY		
10					Ml	PEBBLES		Vx
						11'		
12					Sm	SAND - SILTY PEBBLES	F	
						13'		
14						CLAY - SANDY		Vc - Vr
16						- SILTY		
18					Cl	- PEBBLES		
20								
22								
24								
26								
28								



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					WET	
4						
6					WET	
8						
10					HOLE IN BAG	
12					WET	
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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 98	CHAINAGE. 477 + 00	OFFSET. ℄
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Poor	VEGETATION. Spruce Tamarack	ELEV.

TEST HOLE 1126

MILE 733

REMARKS

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Pt	PEAT 2'		MODERATE ICE Vc - Vr					WET
4						CLAY - SANDY - SILTY - PEBBLES							
6					Cl	LOW - MED. PLASTIC							WET
8								LOW ICE Vx					MOIST
10					Ci		F						
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
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 96	CHAINAGE. 468 + 00	OFFSET. ℄	TEST HOLE 1127
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack	ELEV.	MILE 733

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					WET	
4						4.5		Vs						
6						CLAY - SILTY							SAT.	
8						- SANDY								
10						- PEBBLES							MOIST	
12					Cl	LOW PLASTIC		LOW						
14						GRAVELLY	F	ICE					MOIST	
16								Vx					DAMP	
18														
20														
22														
24														
26														
28														

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 96	CHAINAGE. 458 + 00	OFFSET. ℄	TEST HOLE 1128
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack	ELEV.	MILE 732

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							DAMP	
4						- SANDY		LOW						
6						- PEBBLES							MOIST	
8					Cl	LOW - MED. PLASTIC		ICE					MOIST	
10							F							
12					Ci			Vx					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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 96	CHAINAGE. 451 + 00	OFFSET. ℄	TEST HOLE 1129
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max. 5"	ELEV.	MILE 732

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 - SILTY								
4						- SANDY		LOW					MOIST	
					Cl	- PEBBLES								
6						LOW - MED. PLASTIC		ICE					MOIST	
8					Ci									
													MOIST	
10								Vx						
						11'	F							
12						SILT - CLAYEY							MOIST	
14					Sm	- SANDY							MOIST	
						15'								
16						CLAY - SILTY								
18						- SANDY								
					Cl	- PEBBLES								
20						LOW - MED. PLASTIC								
22					Ci									
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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 96	CHAINAGE. 443 + 00	OFFSET. ℄	TEST HOLE 1130
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack	ELEV.	MILE 732

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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						
6					Cl	- PEBBLES LOW - MED. PLASTIC							WET	
8					Ci			ICE					MOIST	
10														
12							F	Vx					DAMP	
14													MOIST	
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+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

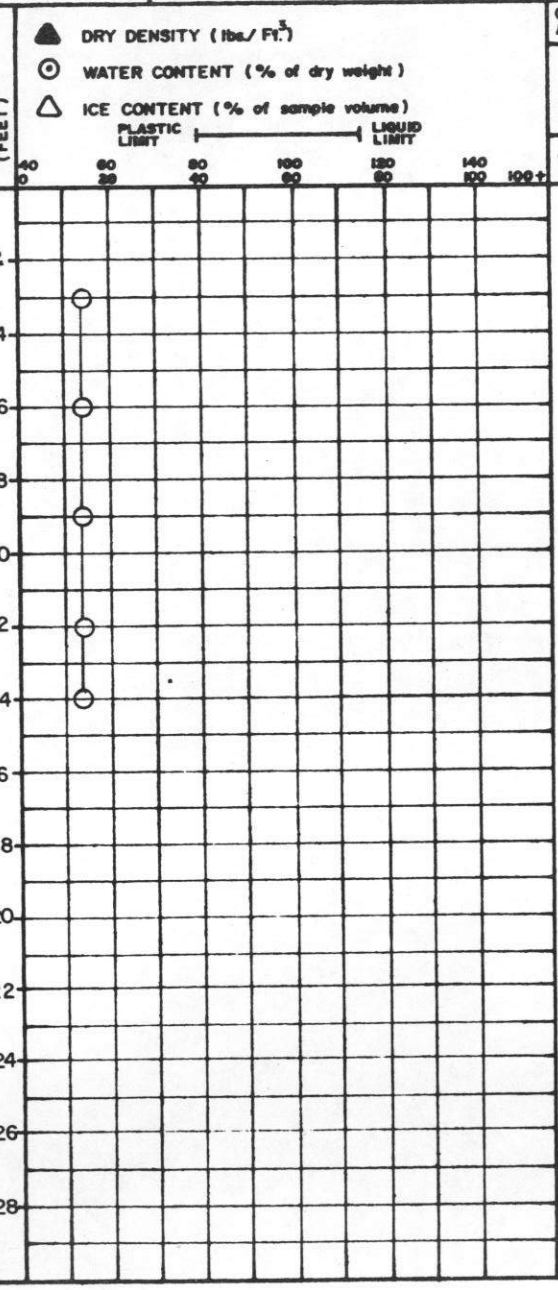
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 96	CHAINAGE. 435 + 00	OFFSET. ℄	TEST HOLE 1131
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack 5"	ELEV.	MILE 732

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



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

DS-14-5-74 b

BOTTOM OF HOLE - 30'

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 96	CHAINAGE. 427 + 00	OFFSET. D
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Tamarack 5"	ELEV.

TEST HOLE 1132

MILE 732

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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		LOW						
6						- SANDY							DAMP	
8					Cl	- PEBBLES		ICE					DAMP	
10					Ci	LOW - MED. PLASTIC								
12							F	Vx					DAMP	
14													DAMP	
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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 96	CHAINAGE. 419 + 00	OFFSET. Ⓒ
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce Max. 4"	ELEV.

TEST HOLE 1133

MILE 732

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 1.5'								
2						CLAY - SILTY								
						- SANDY		LOW	57	-	39	4		HOLE IN BAG
4						- PEBBLES								
6						LOW - MED. PLASTIC		ICE	67	-	31	2		MOIST
8					Cl									
					Ci			Vx	57	-	36	7		MOIST
10														
12							F		66	-	30	4		HOLE IN BAG
14									66	-	29	5		DAMP
16														
18														
20														
22														
24														
26														
28														

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 95	CHAINAGE. 411 + 00	OFFSET. ℄
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce 3"	ELEV.

TEST HOLE 1134

MILE 732

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'				
2						CLAY - SILTY			HOLE IN BAG	
4						- SANDY		LOW		
6						- PEBBLES			MOIST	
8						LOW PLASTIC		ICE		
10					Cl		F	Vx	WET	
12									MOIST	
14									DAMP	
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 80 100 120

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 95	CHAINAGE. 403+00	OFFSET. ℄	TEST HOLE 1135
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max 3"	ELEV.	MILE 731

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 - SILTY							DAMP	
4						- SANDY		LOW						
6						- PEBBLES							WET	
						LOW PLASTIC		ICE						
8					Cl								MOIST	
10								Vx						
12							F						HOLE	IN BAG
						13'								
14					Sm	SAND - SILTY							MOIST	
						15'								
16						CLAY - SILTY								
18						- SANDY								
						- PEBBLES								
20					Cl	LOW PLASTIC								
22														
24														
						26'								
26						SHALE - SILTY SOFT								
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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 95	CHAINAGE. 395 + 00	OFFSET. ℄
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.

TEST HOLE 1136

MILE 731

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		LOW
4					Cl	- SANDY		TO
6						- PEBBLES LOW PLASTIC		MODERATE
8						7'		
10						SAND - CLAYEY - SILTY		ICE
12					Sc	- FINE	F	Vx
14								
16								Vc - Vr
18								
20								
22						23'		
24						SHALE - SILTY		
26						- SOFT		
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
0					
2					MOIST
4					
6					MOIST
8					
10					MOIST
12					MOIST
14					WET
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: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 95	CHAINAGE. 384 + 00	OFFSET. D	TEST HOLE 1137
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Tamarack 5"	ELEV.	MILE 731

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1.5'								
2					Cl	CLAY - SILTY PEBBLES - SANDY		LOW					WET	
4														
6					Sc	SAND - CLAYEY - SILTY 7'		ICE					MOIST	
8						CLAY - SANDY							DAMP	
10						- SILTY		Vx						
12						- PEBBLES	F						DAMP	
14					Ci	MED. PLASTIC							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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 95	CHAINAGE. 374 + 00	OFFSET. ℄	TEST HOLE 1138
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Poor	VEGETATION. Spruce Tamarack	ELEV.	MILE 731

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

PLASTIC LIMIT — LIQUID LIMIT

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A22761 - 95	CHAINAGE. 366 + 00	OFFSET. Ɛ	TEST HOLE 1139
TECH. McINTOSH	RIG. Mayhew #2	SURFACE DRAINAGE. Poor	VEGETATION. Spruce - Max. 4"	ELEV.	MILE 731

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 - ORGANIC TO 4'		MODERATE
4						- SILTY SANDY 5'		ICE
6					Sc	SAND - GRAVELLY SILTY CLAYEY 8'		Vc - Vr
8					Cl	CLAY - SILTY SANDY		
10						PEBBLES 11'	F	
12					Sm	SAND - SILTY		LOW
14						- FINE		
16								ICE
18						19'		Vx
20					Cl	CLAY - SILTY		
22						- SANDY		
24						- PEBBLES		
26					Ci	LOW - MED. PLASTIC		
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
2					WET
4					
6					WET
8					
10					WET
12					MOIST
14					MOIST
16					
18					
20					
22					
24					
26					
28					

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A 22761-95	CHAINAGE 400' FROM ℄ SEISMIC LINE	OFFSET. WEST OR 400' LT.	TEST HOLE 1140
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 731

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					SM	SAND -Silty Fine Clayey		Moderate					Moist	
4					SC								Wet	
6							F							
8								Ice					Moist	
10													Moist	
12								Vc - Vr						
14													Moist	
16														
18														
20														
22														
24														
26														
28						30'								

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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A 22761-95	CHAINAGE.	OFFSET. 800' LT OF ℄
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1141

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 — ½'							
2					CL	CLAY -Sandy Silty Pebbles Low plastic		Moderate Ice					Sat. Moist
8						— 8'							Moist
10					SM	SAND -Silty fine Clayey	F	Vc - Vr					Wet
14					ML	SILT -Sandy Clayey							Moist
30						BOTTOM OF HOLE - 30'							

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A 22761-95	CHAINAGE.	OFFSET. 1200' LT. ℄	TEST HOLE 1142
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT ½'								
2					CL	CLAY -Sandy		Low					Damp	
4					SC	SAND -Clayey							Damp	
6														
8													Damp	
10							F	Ice					Damp	
12														
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
0 20 40 60 80 100 120 140 160 180+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A 22761-95	CHAINAGE.	OFFSET. 1600' LT. ℄	TEST HOLE 1143
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT ½'								
2					SC	SAND -Clayey Silty							Moist	
4														
6													Wet	
8						8'								
8					CL	CLAY-Silty, sandy	F	Moderate					Moist	
10						SAND-Clayey, silty								
12								Ice					Moist	
12					SC									
14								Vc - Vr						
16													Wet	
18														
20						20'								
20					ML	SILT -Sandy								
22														
24														
25						25'								
26					SM	SAND -Silty								
28														
30						30'								

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A 22761-95	CHAINAGE.	OFFSET. 2000' LT. ℄	TEST HOLE 1144
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT ½'								
2					SC	SAND -Clayey, silty		Low					Moist	
4					CL	CLAY -Silty, sandy								
6								To					Moist	
8													Wet	
10								Moderate						
12							F						Moist	
14								Ice						
16													Moist	
18								Vx						
20						20'								
22					ML	SILT -Silty		Vc - Vr						
24														
26					SM	SAND -Silty								
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+

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A 22761-95	CHAINAGE.	OFFSET. 1000' RT OF ℄
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

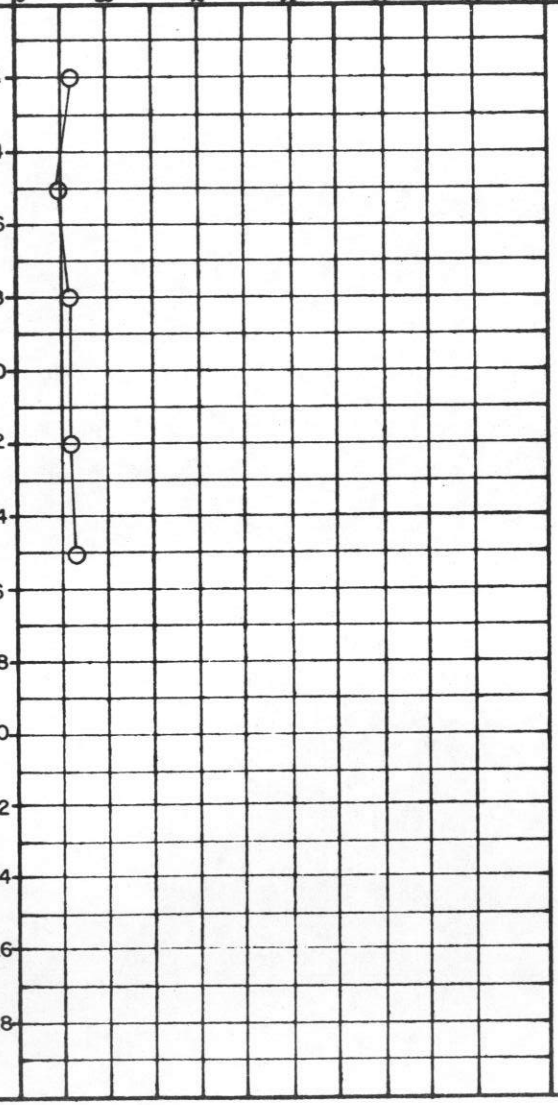
TEST HOLE 1145

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — ½'		
2					SC / CL	SAND - Clayey CLAY - Sandy		Low
4								
6								
8						— 8'		Ice
10						CLAY - Silty - Sandy - Pebbles		
12					CL	Low-med. plastic	F	
14					CI			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



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

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A 22761-95	CHAINAGE.	OFFSET. 2000' RT OF ℄	TEST HOLE 1146
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
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 — ½'								
2					SC	SAND -Clayey Silty							Moist	
4						Pebbles & rock chips		Moderate					Wet	
6						Gravelly								
8						Pebbles							Moist	
10					SM		F	Ice					Wet	
12						Silty								
14						Silty - Pebbles							Wet	
16						Clayey		Vc - Vr						
18					SC									
20														
22						22'								
24					CI	CLAY -Silty								
26						Pebbles - 27'								
28						30'								

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A 22761-95	CHAINAGE.	OFFSET. 3000' RT OF ℄	TEST HOLE 1147
TECH. JOHNSON	RIG. MAYHEW- #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — ½'		
2					CL	CLAY -Silty Sandy		Moderate
4								
6					CL SC	SAND -Clayey CLAY -Sandy		Ice
8						— 8'		
10					SC / CL	SAND -Clayey Silty Fine; CLAY -Silty Sandy	F	Vc - Vr
12								
14						— 15'		
16					ML	SILT -Clayey		
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	
				Wet	
				Moist	
				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. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A 22761-95	CHAINAGE.	OFFSET. 4000' RT OF ℄	TEST HOLE 1148
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT ½'		Moderate
2						CLAY -Silty Sandy		&
4								Vc - Vr
6					CL	Low plastic Pebbles		Low
8							F	Ice
10								
12								Vx
14								
16								
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 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	
				Wet	
				Moist	
				Moist	
				Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 3/4/74	AIRPHOTO NO. A 22761-95	CHAINAGE.	OFFSET. 5000' RT OF ℄	TEST HOLE 1149
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT ½'								
2					SC	SAND -Clayey							Wet	
4					CL	CLAY -Silty Pebbles Low plastic		Low					Damp	
6														
8							F	Ice					Moist	
10						10'								
					CL	CLAY -Silty Sandy							Damp	
12					SC	SAND -Clayey Silty								
14								Vx					Moist	
16														
18						18'								
						SHALE -Soft								
20														
22														
24														
26														
28						Soft-med. hard 30'							Damp	

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO. A 23334-187	CHAINAGE.	OFFSET. 6000' RT OF ℄	TEST HOLE 1150
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT — 2'		Vx					Sat.	
4					CL	CLAY-Silty, sandy								
6					SC	CLAY -Sandy SAND -Clayey		Low					Damp	
8						Pebbles	F	Ice					Damp	
10						— 11'							Damp	
12						CLAY-Silty & shale Few pebbles		Frozen						
14						SHALE -Soft							Humid	
16								Nbn						
18														
20														
22														
24														
26														
28						Soft-med. hard							Humid	
						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. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO. A 23334-187	CHAINAGE.	OFFSET. 7000' RT OF ℄
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1151

MILE

REMARKS

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT — 1'							
2					CL	CLAY -Silty Sandy Pebbles Low plastic	F	Low					Moist
4													Moist
6													
8								Ice					Moist
10						— 11'							Moist
12					SC	SAND-Clayey Silty Fine — 13'							
14								Vx					Damp
16						CLAY -Silty Sandy Pebbles Low plastic							
18													
20					CL								
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. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO. A 23334-187	CHAINAGE.	OFFSET. 8000' RT OF ℄	TEST HOLE 1152
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
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	PEAT — 1'								
2					CL	CLAY -Silty Sand to 4' Sandy Pebbles Rock chips Low plastic		Low					Moist	
4													Moist	
6								Ice						
8						Gravelly							Damp	
10														
12						Pebbles & rock chips	F	Vx					Damp	
14						Cobbles from 13'							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

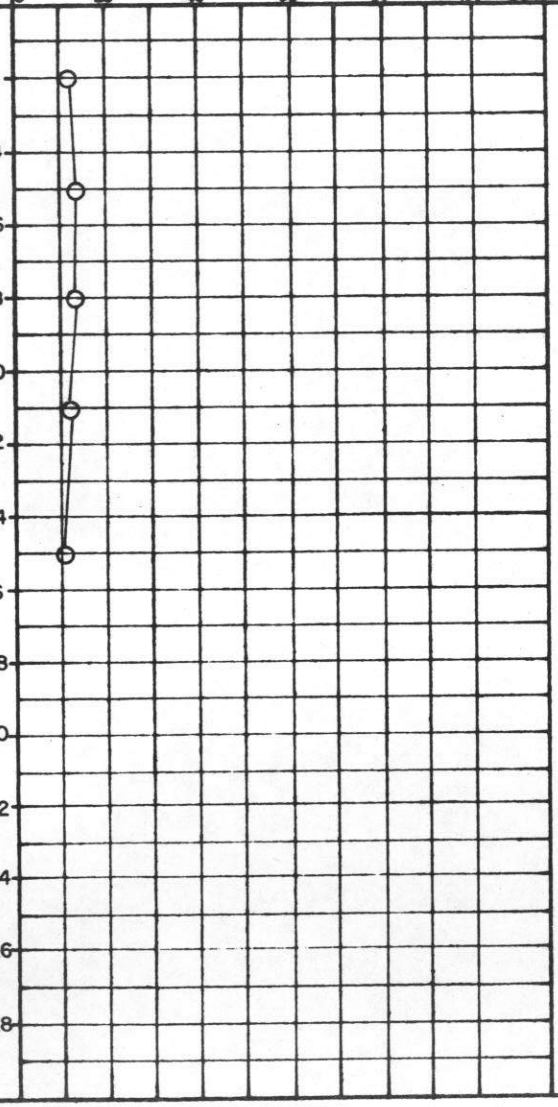
FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO. A 23334-187	CHAINAGE.	OFFSET. 9000' RT OF ℄
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1153

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT ½'		
2						CLAY -Silty Sandy Pebbles		Low
4								
6					CL	Low-med. plastic		Ice
8					CI			
10								Vx
12							F	
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)	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Damp
6					Moist
8					Damp
10					Damp
14					Damp

GRAIN-SIZE ANALYSIS

REMARKS

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO. A 23334-187	CHAINAGE.	OFFSET. 10000' RT OF ℄
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1154

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 ½'							
2						CLAY -Silty Sandy Pebbles							Moist
4													
6					CL	Rock chips Low-med. plastic		Low					Damp
8					CI								Damp
10							F	Ice					
12						Silt & Sandstone Fragments							Damp
14								Vx					
16													Damp
18						18'							
20						SHALE -Soft-med. hard		Frozen					
22								Nbn					
24													
26													
28													Humid
						30'							

BOTTOM OF HOLE - 30'

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 7/4/74	AIRPHOTO NO. A 23335-114	CHAINAGE.	OFFSET. ℄	TEST HOLE 1155
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'								
2					CL	CLAY -Silty, sandy Pebbles Organic to 4'		Low					Moist	
4						— 4'								
6						SAND -Clayey Silty		To					Damp	
8								Moderate						
10							F						Damp	
12					SC			Ice					Damp	
14								Vx						
16													Sat.	
18								Vc - Vr						
20														
22													Sat.	
24						— 23'								
					CL CI	CLAY-Silty, sandy Low-med plastic							Moist	
26						— 25'								
28						BOTTOM OF HOLE - 25'								

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 7/4/74	AIRPHOTO NO. A 23335-114	CHAINAGE.	OFFSET. ℄	TEST HOLE 1156
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

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	CLAY -Silty, sandy Pebbles Low plastic							Moist	
4						— 4'								
						SAND -Clayey Silty		Low						
6													Moist	
8							F	Ice						
10													Moist	
					SC	— 11'								
12					CL	CLAY -Silty Sandy		Vx					Moist	
14						— 15'								
16						SAND -Clayey Silty							Damp	
18														
20					SC									
22													Moist	
24													Moist	
						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 7/4/74	AIRPHOTO NO. A 23335-114	CHAINAGE.	OFFSET. ℄	TEST HOLE	1157
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE	

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'								
2					CL	CLAY -Silty Sandy Pebbles							Moist	
4					CI	Med-low plastic								
						— 5'		Moderate						
6						SAND -Clayey Silty							Damp	
8								Ice						
10													Moist	
12					SC		F	Vc - Vr					Moist	
14														
16													Moist	
18														
20														
22													Wet	
24													Moist	
						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. A 23335-114 | CHAINAGE. | OFFSET. ℄

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

TEST HOLE 1158

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
					Pt	PEAT								
1'														
2						SAND -Clayey silty		Low					Moist	
4					SM	Silty		To						
6													Moist	
8								Moderate						
10								Ice					Damp	
12					SC	Clayey silty	F	Vx					Moist	
14														
16					SM	Silty		Vc - Vr					Moist	
18														
20														
22													Moist	
24													Moist	
25'														
26						BOTTOM OF HOLE - 25'									
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23335-114	CHAINAGE. SEISMIC LINE	OFFSET. ℄	TEST HOLE 1159
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 8"	ELEV.	MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT								
1'														
2					CL	CLAY -Silty Sandy pebbles Low plastic							Hole In Bag	
4														
6						Gravelly		Low					Hole In Bag	
7'														
8					SM	SAND -Silty Pebbles	F	Ice					Moist	
10														
12								Vx						
14														
16													Wet	
18														
20														
20'														
22					SM	SILT -Clayey Sandy							Damp	
24													Damp	
25'														
26						BOTTOM OF HOLE - 25'									
28														

DS-14-5-74 b

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DRILL HOLE REPORT

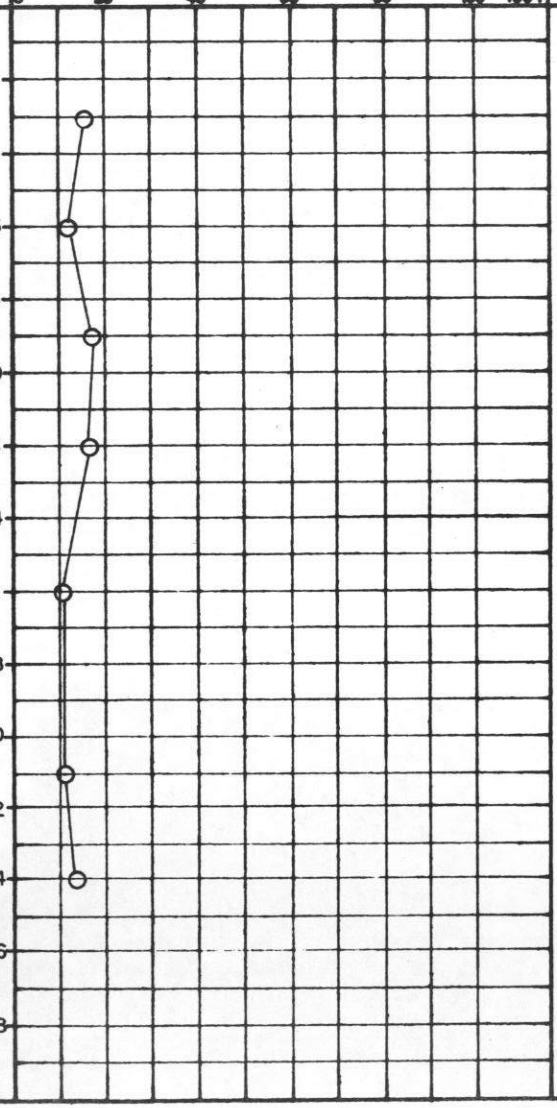
SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23335-114	CHAINAGE. SEISMIC LINE	OFFSET. ℄	TEST HOLE 1160
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX. 6"	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		Low
						1.5'		
2					CL	CLAY -Silty, sandy Pebbles		&
4						4'		
6					SM	SAND -Silty		Moderate
8								Ice
10							F	
						11'		
12					ML	SILT -Sandy		Vx
14								
16								Vc - Vr
18								
20						20'		
22					SC	SAND -Clayey Silty 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	
				Moist	
				Wet	
				Moist	
				Moist	
				Wet	

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

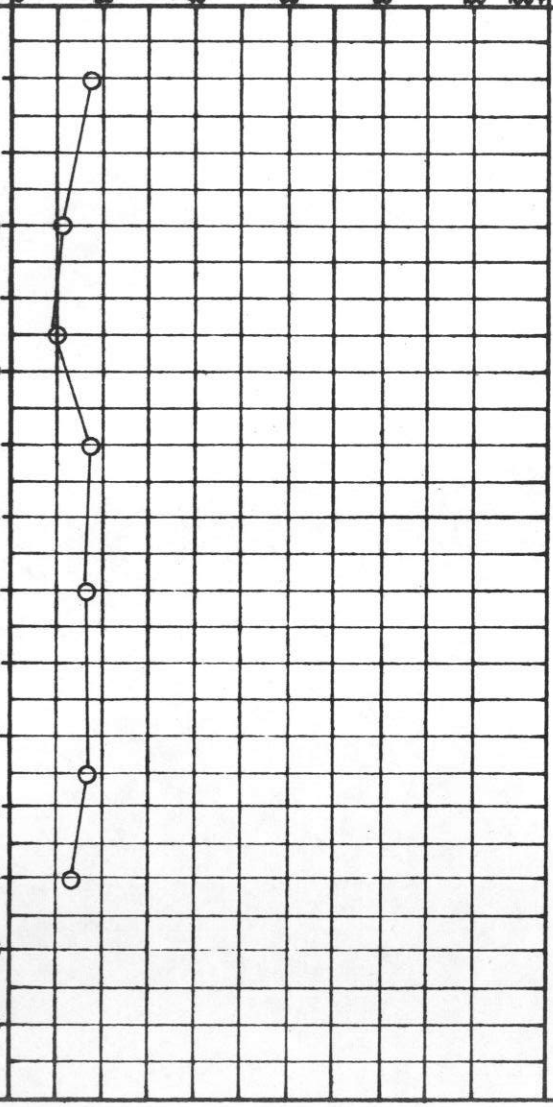
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23335-114	CHAINAGE. SEISMIC LINE	OFFSET. ℄	TEST HOLE 1161
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT		
						1.5'		
2					CL	CLAY -Silty, sandy Pebbles		Low
4						4'		&
6					SC	SAND -Clayey Silty		Moderate
8								
10					SC	SAND-SILT MIXTURE		Ice
					ML			
12							F	Vx
14								
16								Vc - Vr
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	REMARKS
2					Wet	
6					Moist	
10					Damp	
12					Moist	
16					Moist	
22					Wet	
24					Wet	

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DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23334-183	CHAINAGE. SEISMIC LINE	OFFSET. ℄	TEST HOLE 1162
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE - ALDER	ELEV.	MILE

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

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT								
						1.5'								
2					CL	CLAY-Silty, sandy Pebbles Low plastic							Moist	
						4'								
4					SM	SAND -Silty Pebbles Fine		Low					Damp	
6														
8								Ice					Moist	
10														
12													Wet	
						13'								
14					CI	CLAY -Sandy Silty Pebbles Med plastic	F	Vx						
16													Moist	
18														
20													Damp	
22														
24													Damp	
						25'								
26						BOTTOM OF HOLE - 25'								
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23334-183	CHAINAGE. SEISMIC LINE	OFFSET. ℄		TEST HOLE	1163
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE MAX 4"	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
2					Pt	PEAT — 1'								
4					CL CI	CLAY -Silty, sandy Pebbles Low-med. plastic — 4'							Moist	
6					ML	SILT -Clayey Sandy		Moderate					Wet	
8					SM	SAND-SILT MIXTURE		Ice						
10						— 10'							Wet	
12						SAND -Silty Fine	F	Vc - Vr					Hole In Bag	
16					SM								Wet	
20													Wet	
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
0 20 40 60 80 100 120 140 160 180+

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23334-183	CHAINAGE. SEISMIC LINE	OFFSET. ℄	TEST HOLE 1164
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE 6" - BIRCH	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 — 2'								
4					SC	SAND -Clayey Silty		Moderate					Moist	Hole in Bag
6													Moist	
8						Silty		Ice						
10													Wet	
12					SM		F	Vc - Vr					Wet	
14														
16													Sat.	
18														
20														
22													Wet	
24													Wet	
26						25' — BOTTOM OF HOLE - 25'									
28														

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23334-183	CHAINAGE. SEISMIC LINE	OFFSET. ℄	TEST HOLE 1165
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE -BIRCH 6"	ELEV.	MILE

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

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'								
2						SAND -Fine Silty		Low					Damp	
4														
6													Damp	
8					SM			Ice						
10													Damp	
12							F	Vx					Moist	
14														
16						Clayey Silty							Wet	
18					SC									
20													Wet	
22														
24													Moist	
25						25'								
26						BOTTOM OF HOLE - 25'								
28														

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DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23334-183	CHAINAGE. SEISMIC LINE	OFFSET. ℄	TEST HOLE 1166
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. POOR	VEGETATION. SPRUCE MAX. 6"	ELEV.	MILE

DRY DENSITY (lbs./ Ft.³) ▲ — WATER CONTENT (% of dry weight) ⊙ — ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
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								
1.5'						CLAY -Organic to 4' Silty Sandy		Moderate					Moist	
6								Ice					Sat.	
8						Medium plastic								
10					CI		F	Vc - Vr					Moist	
12													Moist	
16													Moist	
20													Moist	
24													Moist	
25'						BOTTOM OF HOLE - 25'								

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23334-183	CHAINAGE. SEISMIC LINE	OFFSET. ℄	TEST HOLE 1167
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - BIRCH 5"	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
					Pt	PEAT — 1'								
2						CLAY							Damp	
4						-Silty		Moderate						
6						Sandy							Wet	
8					CL	Low-med plastic		Ice					Moist	
10					CI									
12							F						Wet	
14								Vc - Vr						
16													Wet	
18														
20														
22													Wet	
24													Wet	
						25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23334-183	CHAINAGE. SEISMIC LINE	OFFSET. ℄	TEST HOLE 1168
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE-TAMARACK 6"	ELEV.	MILE

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

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'								
2					OL / OH	ORGANIC CLAY							Hole In Bag	
4						— 4'								
6						CLAY -Sandy Silty							Moist	
8						Medium plastic							Moist	
10					CI									
12						Pebbles							Moist	
14														
16													Wet	
18														
20													Wet	
22														
24						— 23' GRAVEL-Silty Sandy — 25'								Hole In Bag	
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

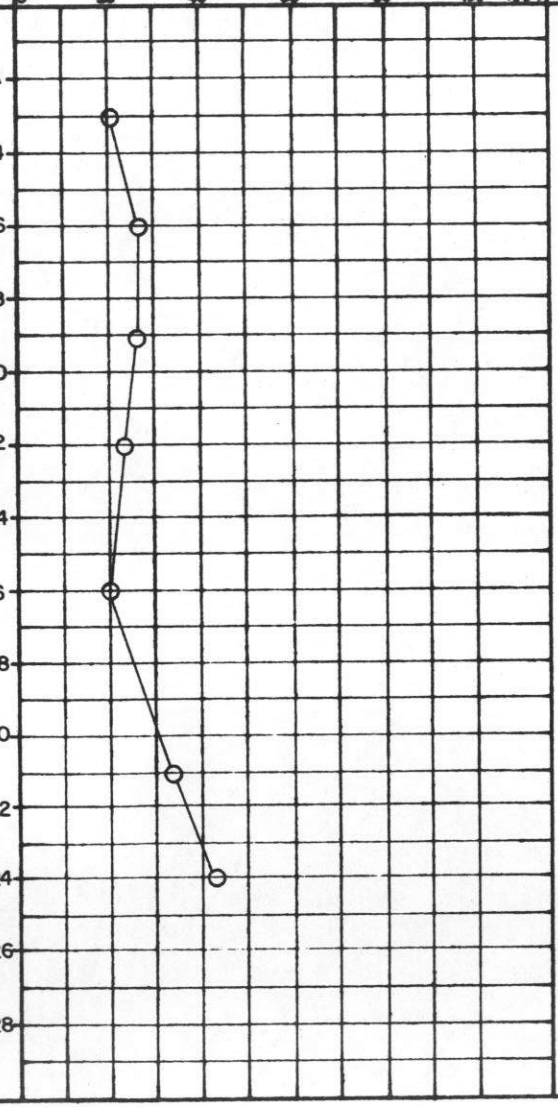
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 8/4/74	AIRPHOTO NO. A 23334-183	CHAINAGE. SEISMIC LINE	OFFSET. ℄	TEST HOLE 1169
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE - BIRCH	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		Moderate
2					SM	SILT -Sandy		&
4						SAND -Silty		
6					ML	SAND-SILT MIXTURE		High
8								Ice
10								Vc - Vr
						11'	F	
12						SAND -Silty Fine		
14								Vs
16					SM			
18								
20						20'		
22					CI	CLAY -Sandy Silty Med-high plastic		
24					CH	Sand pockets		
						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	
				Sat.	
				Sat.	
				Wet	
				Moist	
				Wet	

DS-14-5-74 b

BORROW PIT 173

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

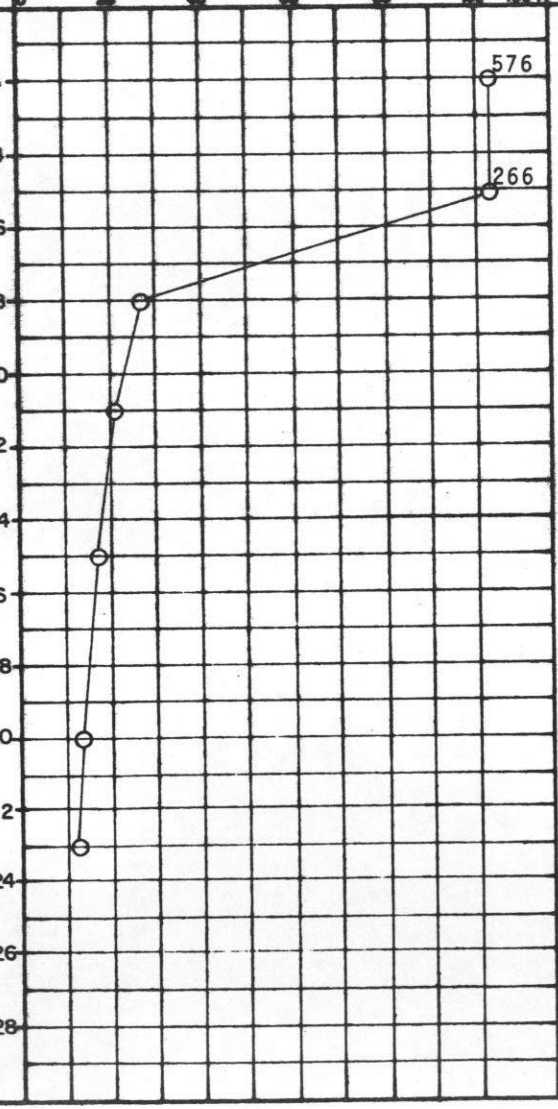
FIELD ENG. N. BURGESS | DATE DRILLED. 1/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 1

TECH. JOHNSON | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE 744.0

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								Vs
6								
8						8'		
10						CLAY -Sandy Silty Pebbles Low-med. plastic	F	Moderate To Low Ice
12					CL			
14								
16								
18					CI			
20								Vc - Vr
22								Vx
24						SHALE FRAGMENTS -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 %		
				Free Water	
				Free Water	
				Sat.	
				Wet	
				Moist	
				Moist	
				Moist	

DS-14-5-74 b

BORROW PIT 173

DEPARTMENT OF PUBLIC WORKS, CANADA
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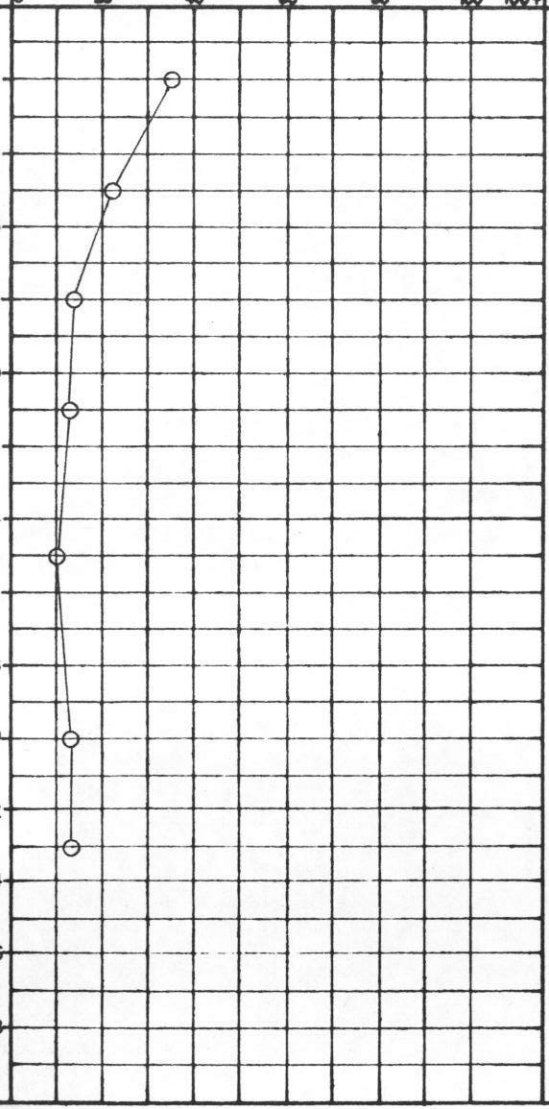
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 3
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 744.0

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					GC	GRAVEL-CLAY MIXTURE		Vs
4						— 4'		Moderate Ice
6						CLAY -Silty Sandy Pebbles		Vc - Vr
8					CL	Low-med. plastic		
10							F	Low
12					CI			
14								Ice
16								
18								
20								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



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

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BORROW PIT 173

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DRILL HOLE REPORT

SITE: SECTION D

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

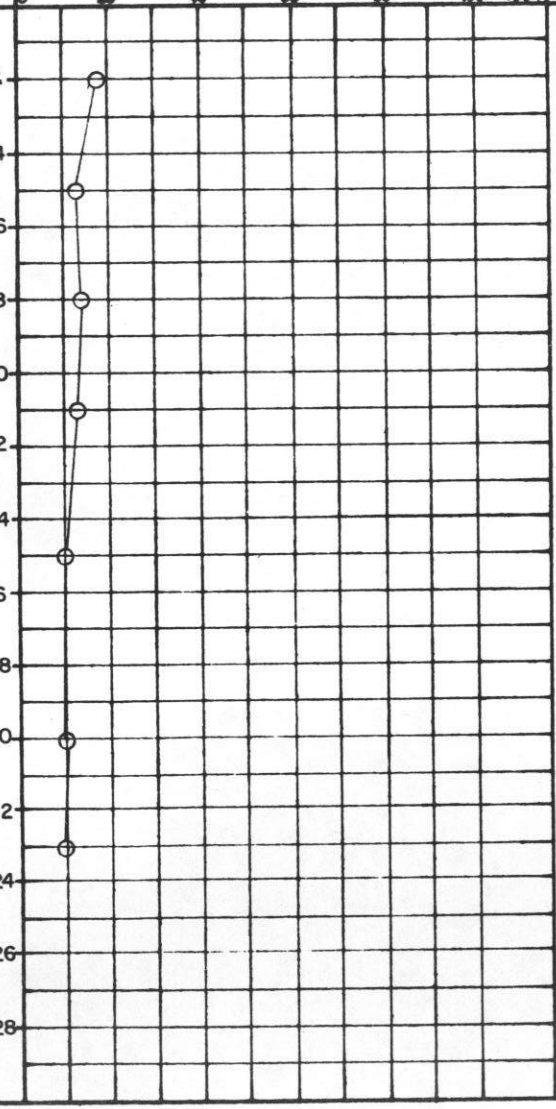
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 5

MILE 744.0

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

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



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

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BORROW PIT 173

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 1/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 6

TECH. WEBER | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE 744.0

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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							Moist	
						2'								
4						CLAY -Sandy Silty Pebbles Med. plastic		Low					Moist	
6														
8					CI								Moist	
10						Gravelly							Damp	
12						Pebbles	F	Ice						
14													Damp	
16														
18														
20													Damp	
22								Vx					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+

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BORROW PIT 173

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 1/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 7
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 744.0

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

0 20 40 60 80 100 120 140 160+

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

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BORROW PIT 173

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 1/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 8

MILE 744.0

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 -Sandy Silty Pebbles		Low					Damp	
4								Ice					Wet	
6					CI	Med. plastic								
8													Moist	
10							F	Vx					Damp	
12								Nil						
14													Damp	
16								Ice						
18														
20								Nbn					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 173

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 1/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 9

MILE 744.0

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

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

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

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BORROW PIT 173

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 1/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

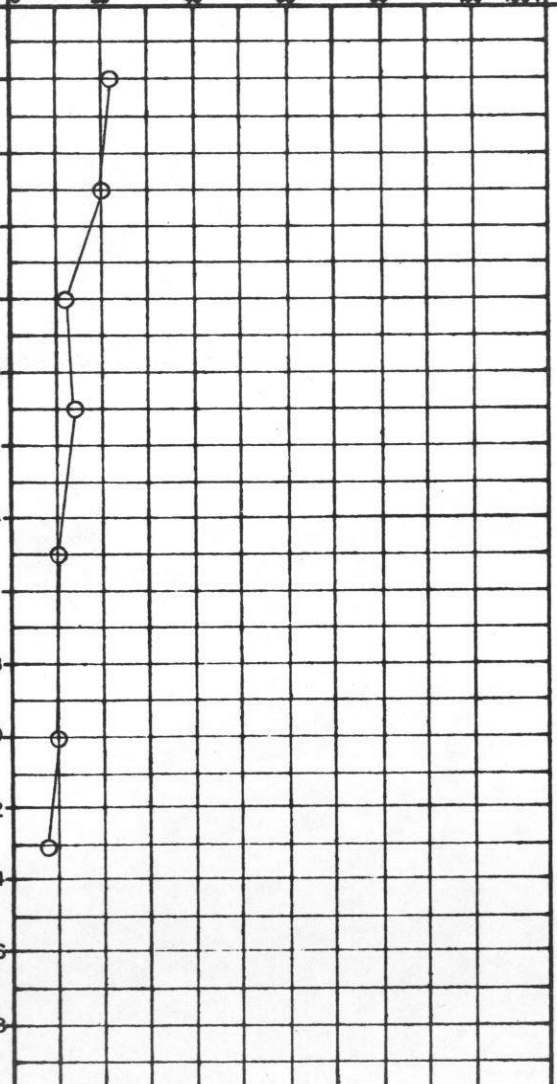
TECH. WEBER | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 10

MILE 744.0

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'								
2						CLAY -Sandy Silty Pebbles Med. plastic		
4								
6								
8							F	Low To Nil
10					CI			
12								
14								Ice
16								
18								Vx
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
CLAY %	SILT %	SAND %	GRAVEL %	
				Wet
				Sat.
				Moist
				Damp
				Damp
				Damp
				Damp

REMARKS

DS-14-5-74 b

BORROW PIT 173

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 1/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

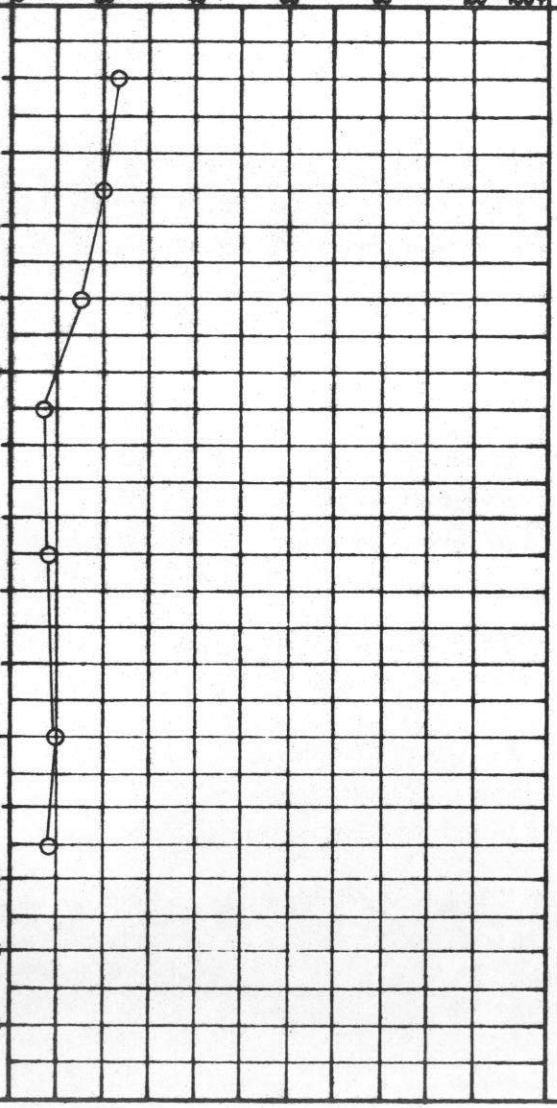
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 11

MILE 744.0

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 1'		Moderate Ice
4						CLAY -Silty Sandy Pebbles		
6					CL	Low-med. plastic		Vc - Vr
8							F	Low
10					CI			To
12								Nil
14								Ice
16								Vx
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	CLAY	SILT	SAND	GRAVEL	RELATIVE THAWED MOISTURE CONTENT	REMARKS
	%	%	%	%		
					Sat.	
					Wet	
					Moist	
					Damp	
					Damp	
					Damp	
					Damp	

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BORROW PIT 173

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 1/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 12

MILE 744.0

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
0-4					Pt	PEAT		High Ice Vs					Free Water; Sat.
4-10					CL	CLAY -Silty Sandy Low-med. plastic	F						Sat.; Wet
10-14					CI	Pebbles		Low To Nil					Moist
14-20								Ice					Moist
20-25								Vx-Vc-Vr					Damp
25						BOTTOM OF HOLE - 25'							

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BORROW PIT 173

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 2/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH.	RIG.	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 13

MILE 744.0

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 — 2'		Moderate Ice					Wet
4													Wet
8					CI	CLAY -Silty Sandy Pebbles Med. plastic	F	Vc - Vr / Vx					Moist
12													Damp
16								Low Ice					Damp
20													Damp
24								Nil Ice					Damp
28													Damp
32								Nbn					Wet
36													Moist
40						40'							Damp
44						BOTTOM OF HOLE - 40'							
48													
52													
56													

BORROW PIT 173

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.	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 14

MILE 744.0

REMARKS

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

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

DS-14-5-74 b

BORROW PIT 173

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.	OFFSET.
TECH. WEBER	RIG. MAYHEW-#1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 15

MILE 744.0

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'		Low
4					SM	SAND -Silty 4'		
6						CLAY -Sandy Silty Pebbles Med. plastic	F	
8								
10					CI			
12								Vx
14								
16								
18								Ice
20								
22								
24						23'		
26					SC	SAND -Clayey-pebbles Shale frags. 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 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

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

DS-14-5-74 b

BORROW PIT 173

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.	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 16

MILE 744.0

REMARKS

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+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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							Damp
2						2'							
4						CLAY -Silty Sandy Pebbles Med. plastic		Low					Wet
6													
8					CI								Moist
10							F	Ice					Moist
12													
14													Damp
16													
18								Vx					
20													Damp
22													Damp
24						25'							
26						BOTTOM OF HOLE - 25'							
28													

DS-14-5-74 b

BORROW PIT 173

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.	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 17

MILE 744.0

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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		Low					Moist	
2'														
4						CLAY -Silty Sandy Pebbles Low-med. plastic	F						Moist	
6													Moist	
8					CL									
10					CI			Ice					Damp	
12														
14													Damp	
16														
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
0 20 40 60 80 100 120 140 160 180 200+

DS-14-5-74 b

BORROW PIT 173

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. | OFFSET.

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

TEST HOLE 18

MILE 744.0

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'		
					CI	CLAY -Silty Sandy Pebbles Low-med. plastic	F	Low To Nil
						11'		
						SHALE-SANDSTONE -Soft Ground down		
						14'		
					CI	CLAY -Silty sandy Pebbles Med. plastic		Ice Nbn
						25'		
						BOTTOM OF HOLE - 25'		

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

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Sat.	
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 174

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 1/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 1

MILE 743.1

REMARKS

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					
2					GM	Gravel - Silty							Free Water
4						4'		Vs					
6					CL	Clay - Silty - Sandy - Pebbles Low Plastic		Moderate & Low					Wet
8													
10						11'	F						Moist
12					SM	Sand - Silty 13'		Ice					Moist
14					CL	Clay - Silty Sandy - Pebbles Low-Med. Plastic		Vc - Vr					Moist
16					Cl								
18						20'							
20					SM	Sand - Silty							Moist
22						22'							
24					CL	Clay - Silty - Sandy Low Plastic BOTTOM OF HOLE 25'							Damp
26													
28													

DS-14-5-74 b

BORROW PIT 174

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 1/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 2

MILE 743.1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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						
6						- Pebbles							Damp	Hole in Bag
8					CL	Low-Med. Plastic		Ice						
10													Moist	
12					Cl									
14							F	VX					Damp	
16														
18													Damp	
20														
22													Damp	
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
0 20 40 60 80 100 120 140 160 180+

B074

DB-14-5-74 b

BORROW PIT 174

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 3

MILE 743.1

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 Ice
4						Clay - Organic to 4'		
6						- Silty		Vs
8						- Sandy		
10						- Pebbles		Moderate
12						Low Plastic		
14					CL		F	Ice
16								
18								Vc - Vr
20								
22						23'		
24					Sc	Sand - Clayey Silty Pebbles		
26						BOTTOM OF HOLE 25'		
28								

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

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

8074

DB-14-5-74 b

BORROW PIT 174

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: Section -D-

FIELD ENG. D. COOK | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 4

MILE 743.1

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 - Silty		
4						- Sandy		Vs
6						- Pebbles Gravelly		
8						Pebbles		
10					CL		F	Low
12						Gravelly		Ice
14								
16						Pebbles		
18								VX
20						Low Plastic		
22								
24						BOTTOM OF HOLE 25'		
26								
28								

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

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

8074

DS-14-5-74 b

BORROW PIT 174

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 5

MILE 743.1

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

B074

DS-14-3-74 b

BORROW PIT 174

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

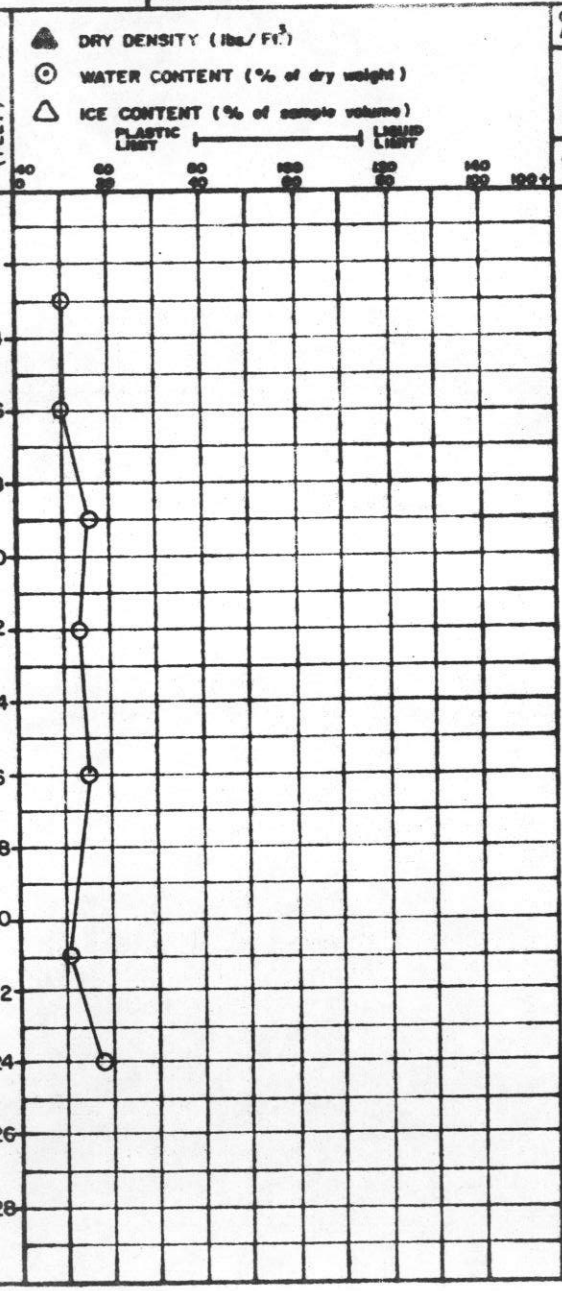
DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 6

TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE 743.1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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'		Low					Moist	
4						Clay - Silty - Sandy - Pebbles		Ice					Moist	
6						Low Plastic								
8					CL			VX					Moist	
10													Moist	
12							F							
14						15'								
16					SM	Sand - Silty		Moderate Ice					Wet	
18						18'								
20					CL	Clay - Silty Sandy Pebbles		Vc - Vr					Wet	
22						Low Plastic 23'								
24					SM	Sand - Silty							Wet	
26						BOTTOM OF HOLE 25'								
28														



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BORROW PIT 174

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

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

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

TEST HOLE 7

MILE 743.1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'			
2						Clay - Sandy - Silty Low Plastic		Low &	Moist
4					CL	Gravelly			
6								Moderate	Wet
8						Pebbles		Ice	Moist
10						11'	F		
12					SM	Sand - Silty Pebbles		VX	Sat.
14						15'			
16						Clay - Silty Sandy			Moist
18						Pebbles		Vc - Vr	
20					CL	Low Plastic			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
0 20 40 60 80 100 120 140 160 180+

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

807A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 8

MILE 743.1

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					CL	Clay - Silty - Sandy - Pebbles Low Plastic	F	Low Ice
6								
8								
10								VX
12								
14								
16								
18						19'		
20					SM	Sandy - Silty - Pebbles		Moderate Ice
22								
24						BOTTOM OF HOLE 25'		Vc - Vr
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 TRAINED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Wet	
				Moist	
				Moist	
				Moist	
				Wet	
				Wet	

BORROW PIT 174

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 9

MILE 743.1

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF PERMA. GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE TRAINED MOISTURE CONTENT	REMARKS
2					Pt	PEAT 1.5'		High Ice						
4					ML	Silt - Organic - Pebbles 4'		Vs					Free Water	
6					Cl	Clay - Silty - Sandy - Pebbles Med. Plastic		Low Ice					Moist Damp	
10							F	VX					Damp	
14					SM	14' Sand - Silty							Moist	
20								Moderate Ice					Wet	
22								Vc - Vr					Wet	
24						BOTTOM OF HOLE 25'								
26														
28														

80%

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: ~~BORROW PIT 174~~ SECTION -D-

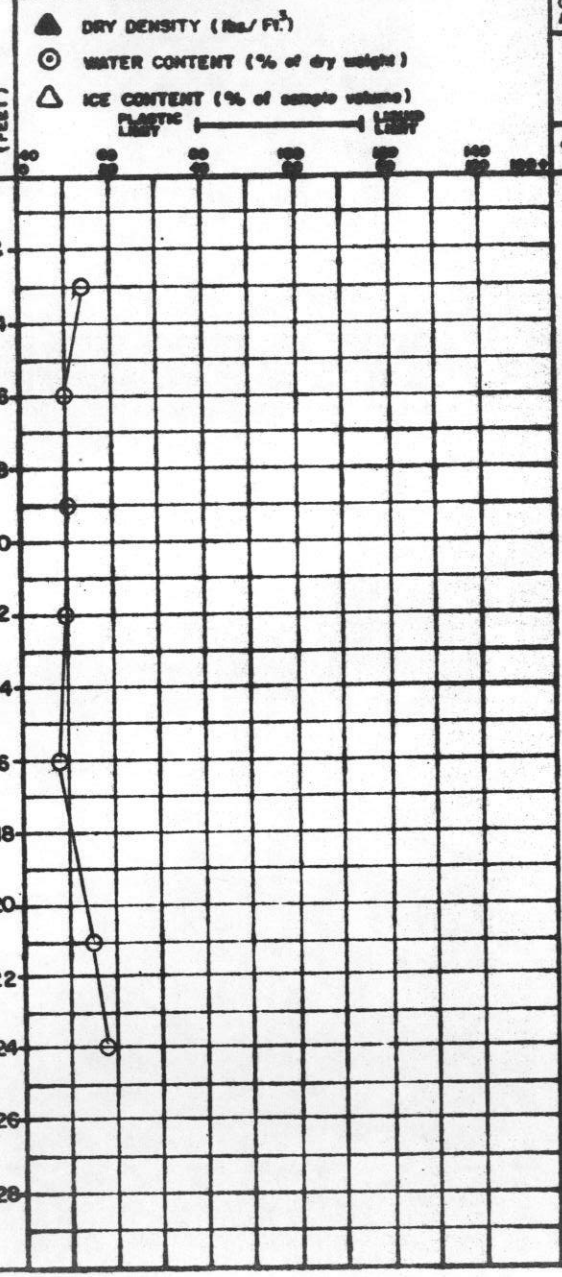
FIELD ENG. D. COOK | DATE DRILLED. 31/3/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 10

MILE 743.1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
						Clay - Silty		
2						- Sandy		Low
4						- Pebbles		Ice
6						Gravelly		
					CL			
8						Pebbles		VX
10					Cl	Low-Med. Plastic	F	
12								
14								
16						17'		
18						Sandy - Silty		Moderate
20					SM			Ice
22								Vc - Vr
24								
26								
28								



GRAIN-SIZE ANALYSIS				RELATIVE TRAINED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	Hole in Bag
				Wet	
				Moist	
				Damp	
				Damp	
				Wet	
				Wet	

28-14-8-16 b

BORROW PIT 175

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 9/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

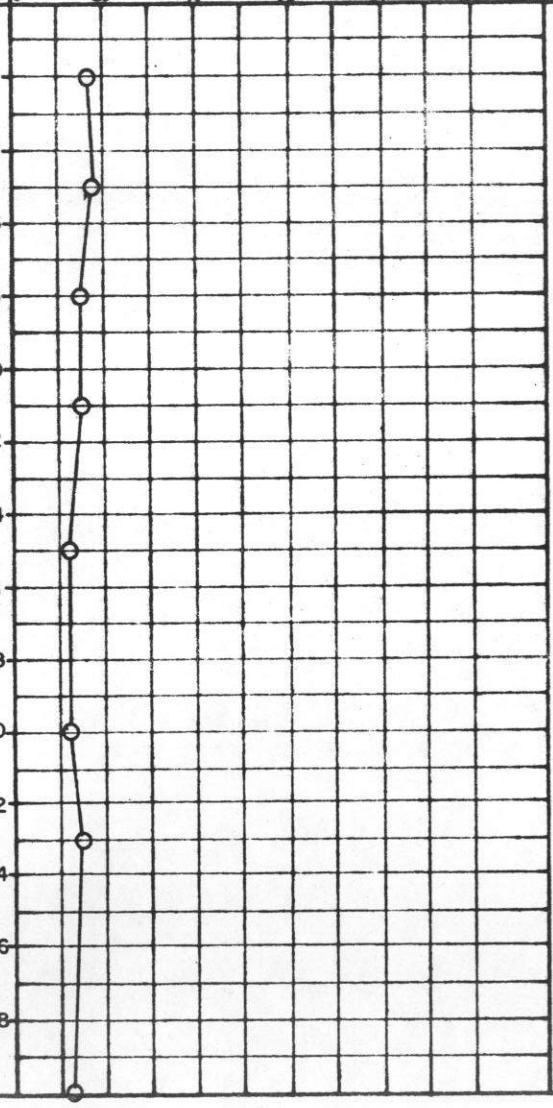
TECH. McINTOSH | RIG MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce - Tamarack | ELEV.

TEST HOLE 1

MILE 738.5

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'							Moist	
2						Clay - Silty		Low						
4						- Sandy							Moist	
6					CL	- Pebbles Low-Med. Plastic								
8													Moist	
10					Cl		F						MOist	
12								Ice						
14													Damp	
16								VX						
18														
20													Damp	
22													Moist	
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
0 20 40 60 80 100 120 140 160 180+



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BORROW PIT 175

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

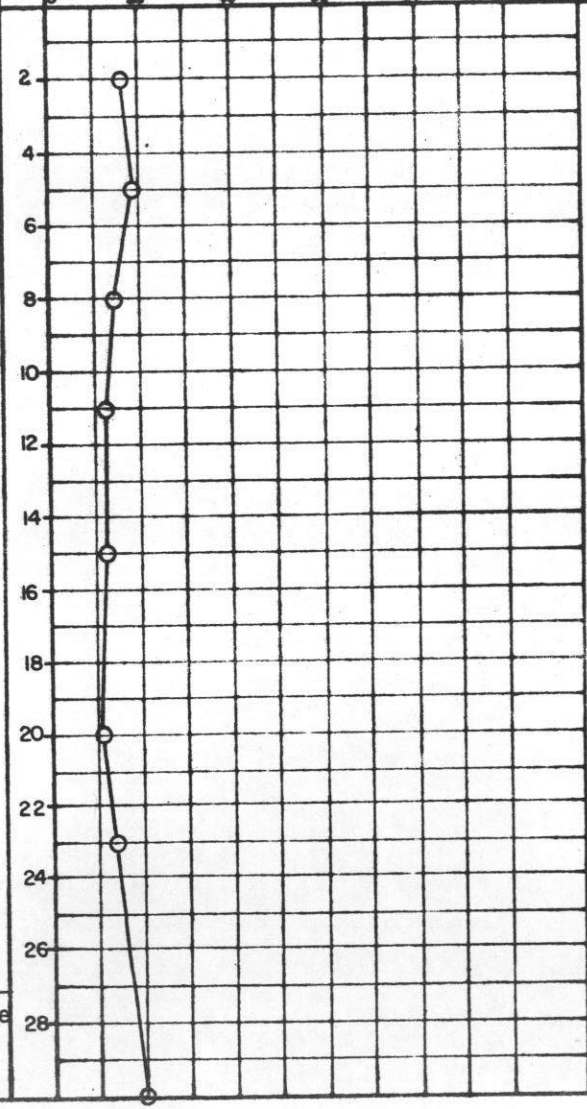
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce & Tamarack | ELEV.

TEST HOLE 2

MILE 738.5

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

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+
0 20 40 60 80 100



B074

DS-14-5-74 b

BORROW PIT 175

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 3

MILE 738.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		Vc - Vr
2						Clay - Silty		
						- Sandy		
4						- Pebbles		Moderate
					CL	Low-Med. Plastic		Ice
6								
8							F	
10					Cl			Low
12								Ice
14								
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	40	60	80	100	120	140	160+
2		39						
4			49					
6								
8				89				
10					99			
12								
14						129		
16								
18								
20							139	
22								
24								
26								
28								

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

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DS-14-5-74 b

BORROW PIT 175

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 748+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 738.5

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5		Vc - Vr
2						Clay - Silty - Sandy		
4						- Pebbles		Moderate Ice
6					CL	Low-Med. Plastic		
8								
10					Cl		F	Low
12								
14								Ice
16								
18								
20								VX
22								
24						BOTTOM OF HOLE 25'		
26								
28								

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

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

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DS-14-5-74 b

BORROW PIT 175

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 5

MILE 738.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5		
2						Clay - Silty - Sandy		
4						- Pebbles		Low
6					CL	Low-Med. Plastic		
8								
10					Cl			Ice
12							F	
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)	0	20	40	60	80	100	120	140	160+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

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

REMARKS

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DS-14-5-74 b

BORROW PIT 175

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 6

MILE 738.5

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'							Moist
2						Clay - Silty - Sandy - Pebbles		Moderate Ice Vc -Vr					Wet
4					CL	Low-Med. Plastic							
6													Moist
8					Cl								
10							F	Low					Damp
12													
14								Ice					Moist
16													
18													
20								VX					Moist
22													Moist
24						BOTTOM OF HOLE 25'							
26													
28													

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DS-14-5-74 b

BORROW PIT 175

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

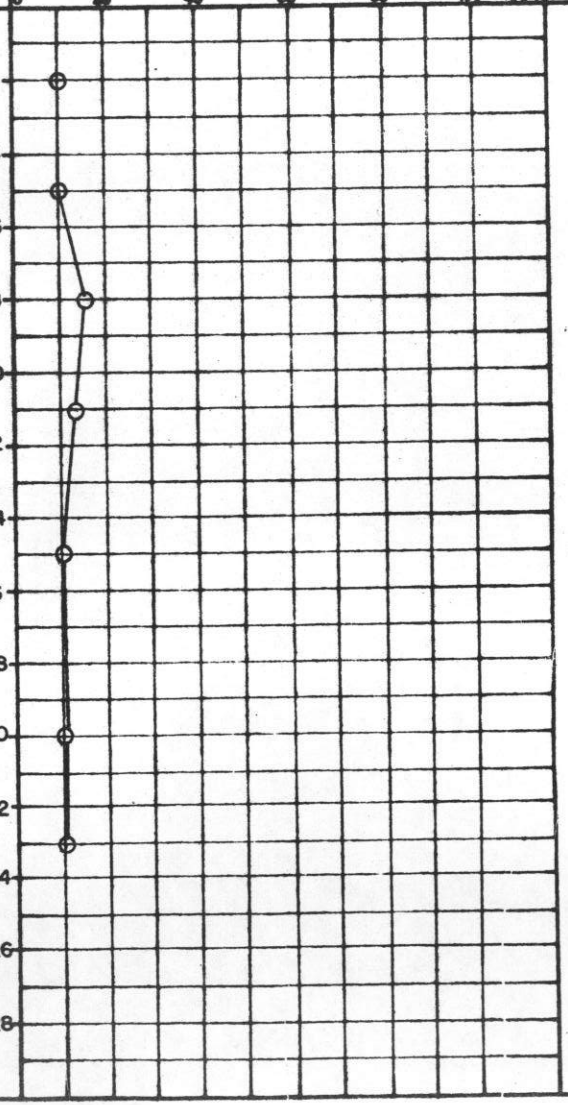
DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 748+00	OFFSET.	TEST HOLE 7
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 738.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						Clay - Silty Sandy Pebbles		
4						Gravel - Clay-Sand Mix		Low
6						Clay - Silty Sandy Pebbles		
8						Low-Med. Plastic		Ice
10					CL		F	
12					Cl			
14								VX
16								
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



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

REMARKS

BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 748+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max: 5"	ELEV.

TEST HOLE 1

MILE 738.5

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'		High Ice Vs					Sat.	
2														
4						Clay - Silty - Sandy							Wet	
6					CL	Pebbles		Low						
8						Low-Med. Plastic							Moist	
10							F.						Moist	
12					Cl									
14													Damp	
16														
18								Ice						
20													Damp	
22								VX					Moist	
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
0 20 40 60 80 100 120 140 160 180+

BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 748+00	OFFSET.	TEST HOLE 2
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max: 5"	ELEV.	MILE 738.5

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

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BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 748+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Max: 5"	ELEV.

TEST HOLE 3

MILE 738.5

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

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

DEPTH (FEET)	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					Damp	
20						
22					Damp	
24						
26						
28					Damp	

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BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce & Tamarack | ELEV.

TEST HOLE 4

MILE 738.5

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
4						Clay - Silty		Ice
6						- Sandy		Vc - Vr
8					CL	- Pebbles		
10						Low-Med. Plastic	F	Low
12					Cl			To
14								Nil
16								
18								Ice
20								VX
22								Nbn
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+

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

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DS-14-5-74 b

BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 748+00	OFFSET.	
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce Mx:4"	ELEV.	TEST HOLE 5
					MILE 738.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1'		High Ice
4					Gc	Gravel - Clayey Sandy		Vs
6						7'		Low
8						Clay - Silty Sandy Pebbles	F	
10					CL	Low-Med. Plastic		
12								
14					Cl			
16								
18								
20								Ice
22								
24								VX
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+

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

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BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 6

MILE 738.5

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+

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

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DS-14-5-74 b

BORROW PITS 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED 5/4/74	AIRPHOTO NO.	CHAINAGE 748+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 7

MILE 738.5

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		
4						- Sandy		Low
6					CL	- Pebbles Low-Med. Plastic		
8					Cl			Ice
10							F	
12								
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)	0	40	60	80	100	120	140	160	180+
		20	30	40	50	60	70	80	90+

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

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DS-14-5-74 b

BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 8

MILE 738.5

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

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

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

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DS-14-5-74 b

BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 9

MILE 738.5

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 1'								
2						Clay - Silty							Moist	
4						- Sandy - Pebbles							Moist	
6					CL	Low-Med. Plastic		Low						
8					Cl		F						Moist	
10								Ice						
12													Damp	
14														
16								VX					Damp	
18														
20														
22													Damp	
24													Damp	
						BOTTOM OF HOLE 25'								
26														
28														

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BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 10

MILE 738.5

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 - Silty							Moist	
4						- Sandy		Low						
6					CL	- Pebbles Low-Med. Plastic							Moist	
8					Cl			Ice					Moist	
10							F							
12													Moist	
14								VX						
16													Moist	
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
0 20 40 60 80 100 120 140 160 180+

B074

DS-14-5-74 b

BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 11

MILE 738.5

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		
4						- Pebbles		Low
					Cl	Low-Med. Plastic		
6								
					Cl			
8								Ice
10							F	
12								
14								VX
16								
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

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

GRAIN-SIZE ANALYSIS

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

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DS-14-5-74 b

BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 12

MILE 738.5

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						Clay - Silty - Sandy - Pebbles							Moist	
4														
6					CL	Low-Med. Plastic		Low					MOist	
8					Cl								Moist	
10								Ice						
12							F	VX					Damp	
14													Damp	
16														
18														
20													Moist	
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
0 20 40 60 80 100 120 140 160 180+

BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 13

MILE 738.5

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
0-2					Pt	PEAT 1'		Moderate Ice					Wet	
2-4					CL	Clay - Sandy - Silty - Pebbles		Vc - Vr					Moist	
4-6						Low-Med. Plastic								
6-8					Cl			Low Ice					Moist	
8-10							F							
10-12													Moist	
12-14								VX						
14-16													Damp	
16-18														
18-20														
20-22													Damp	
22-24						Clay - Silty							Damp	
24-26						BOTTOM OF HOLE 25'								
26-28														

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

BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE 748+00 | OFFSET. | TEST HOLE 14

TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE 738.5

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'		Moderate Ice						
2						Clay - Silty - Sandy - Pebbles							Wet	
4					CL			Vc - Vr						
6						Low-Med. Plastic							Moist	
8					Cl			Low						
10							F						Moist	
12								Ice					Damp	
14														
16								VX					Damp	
18														
20													Damp	
22														
24													Moist	
26						BOTTOM OF HOLE 25'								
28														

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

B074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

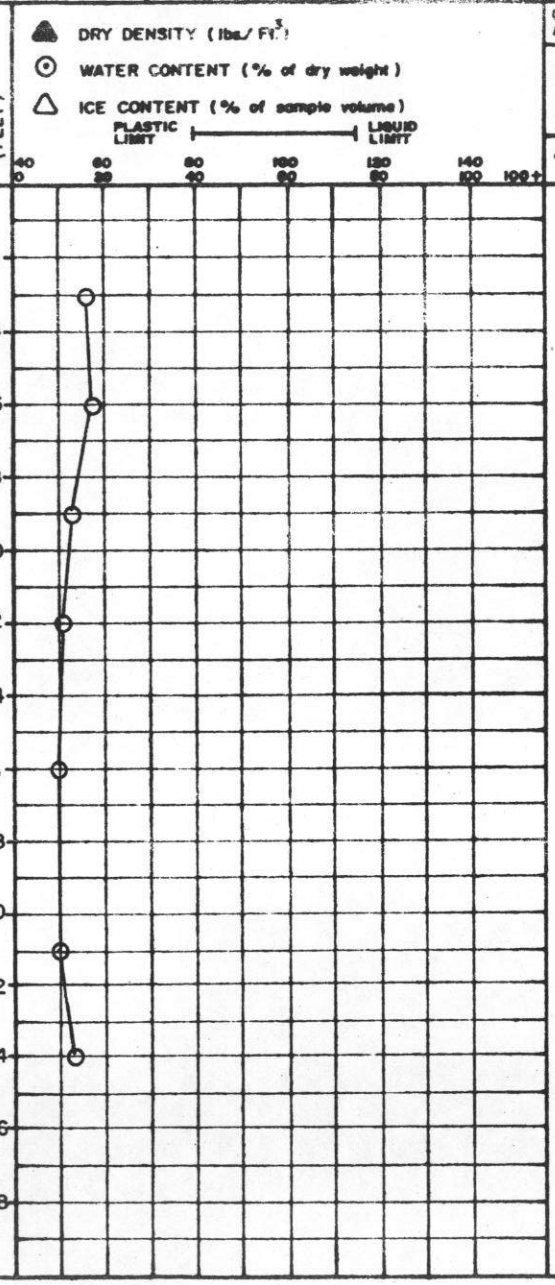
FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 15

MILE 738.5

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



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

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DS-14-5-74 b

BORROW PIT 175-A

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 16

MILE 738.5

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						Clay - Silty - Sandy - Pebbles							Moist	
4														
6					CL	Low-Med. Plastic							Moist	
8														
10					Cl		F	Low					Moist	
12								Ice					Damp	
14														
16								VX					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
0 20 40 60 80 100 120 140 160+

B074

DS-14-5-74 b

BORROW PIT #175-B

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

TEST HOLE 1 or 3

MILE 738.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						Clay - Silty		Moderate
4						- Sandy		
6					CL	- Pebbles Low-Med. Plastic		Ice Vc - Vr
8								
10					Cl			Low
12							F	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
40 60 80 100 120 140 100+

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

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DS-14-5-74 b

BORROW PIT 175-B

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

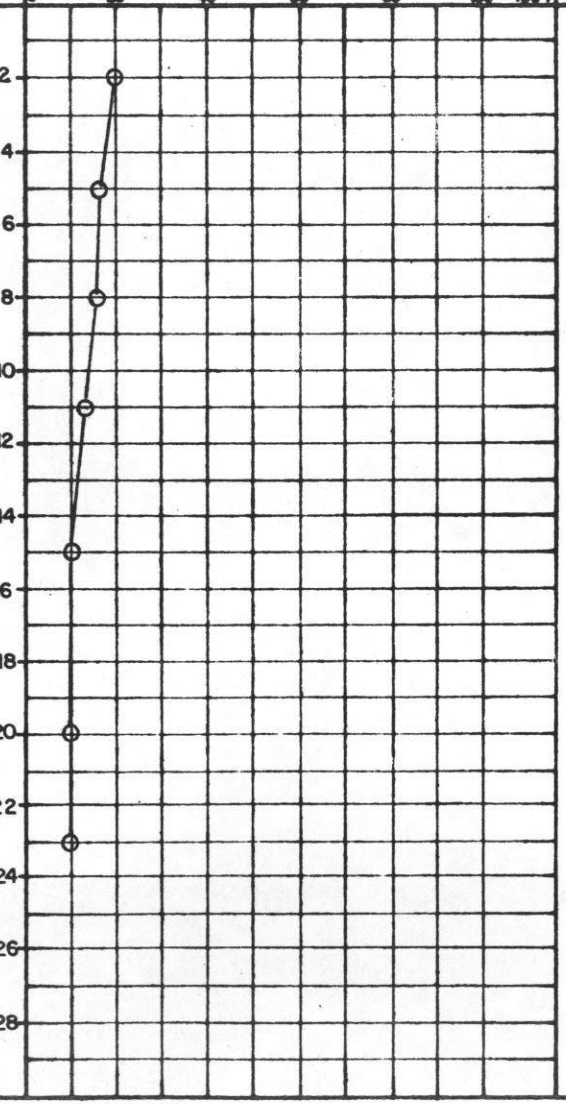
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1 or 3

MILE 738.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					OH	ORGANIC .5'		
2						Clay - Silty		Moderate Ice
4						- Sandy - Pebbles		
6					CL	Low-Med. Plastic		Vc - Vr
8								
10					CI		F	Low Ice
12								
14								
16								VX
18								
20								
22								
24								
26								
28								

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



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

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DS-14-5-74 b

BORROW PIT 175-B

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 748+00 | OFFSET.

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

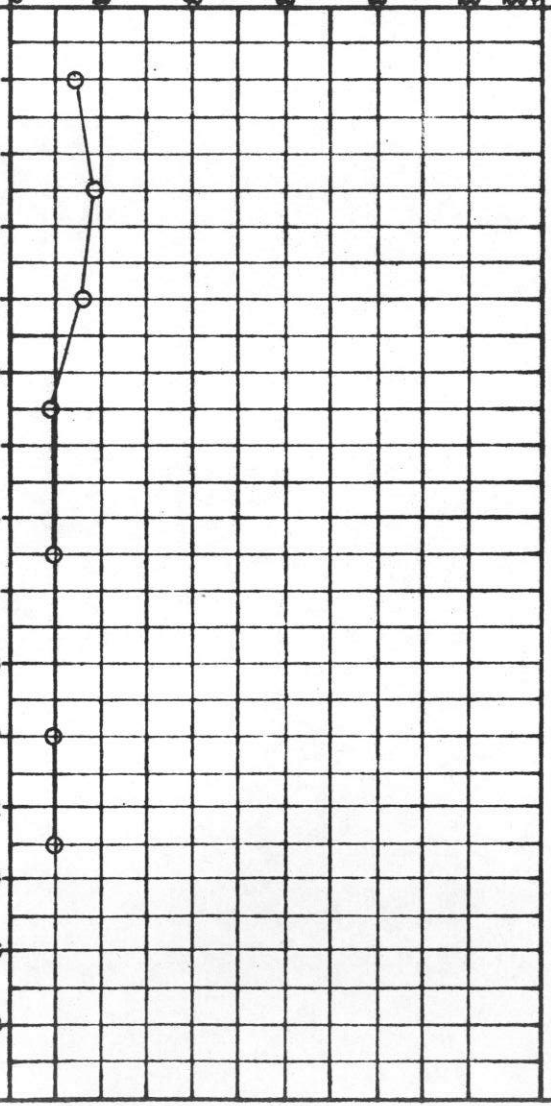
TEST HOLE 2

MILE 738.5

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						Clay - Silty - Sandy - Pebbles		Moderate					Moist	
4					CL	Low-Med. Plastic		Ice					Wet	
6														
8													Wet	
10					Cl		F	Vc - Vr						
12								Low					Damp	
14								Ice					Moist	
16														
18														
20								VX					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 176

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 704+00 | OFFSET.

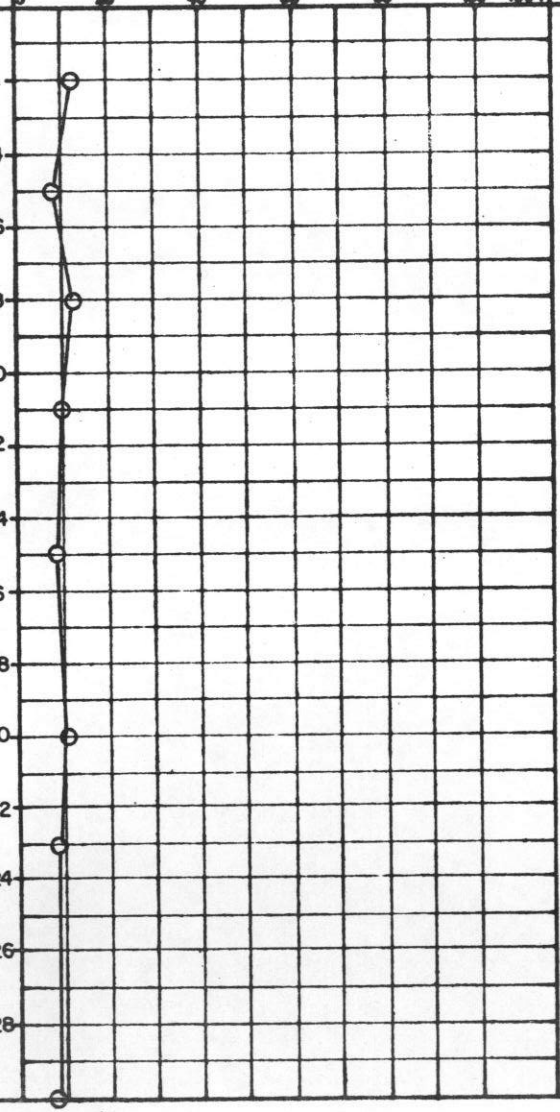
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. FAIR | VEGETATION SPRUCE | ELEV.

TEST HOLE 1

MILE 737.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					SM	Sand - Silty							Damp	
4						4'								
6						Clay - Silty		Low					Damp	
8						- Sandy - Pebbles Low-Med. Plastic							Moist	
10					CL			Ice					Damp	
12							F							
14					Cl	Gravelly							Damp	
16								VX						
18														
20						Pebbles							Moist	
22													Damp	
24														
26														
28						Gravelly BOTTOM OF HOLE 30'							Damp	

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



B074

DS-14-5-74 b

BORROW PIT 176

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 704+00 | OFFSET.

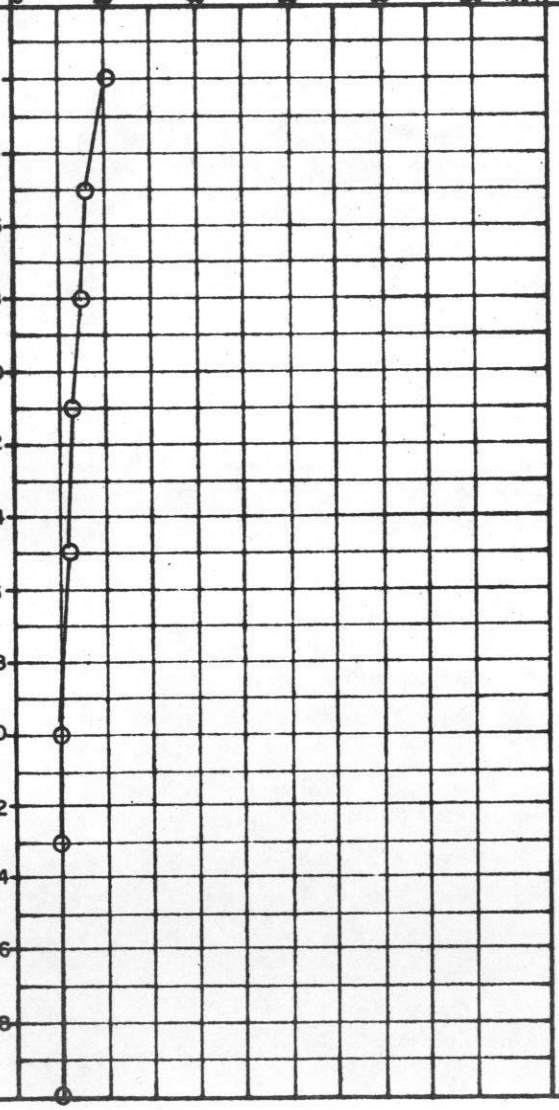
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION Spruce - Tamarack | ELEV.

TEST HOLE 2

MILE 737.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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'		Vc - Vr						
2						Clay - Silty		Moderate					Moist	
4						- Sandy - Pebbles							Moist	
6					CL	Low-Med. Plastic		To						
8													Moist	
10					Cl		F	Low					Damp	
12														
14								Ice					Damp	
16														
18								VX						
20													Damp	
22													Damp	
24														
26														
28														
						BOTTOM OF HOLE 30'							Damp	

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



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DS-14-5-74 b

BORROW PIT 176

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 704+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION Spruce - Tamarack | ELEV.

TEST HOLE 3

MILE 737.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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'							Wet	
4						Clay - Silty Sandy Pebbles		Low					Wet	
6					CL	Low-Med. Plastic							Moist	
8														
10					Cl		F	Ice					Moist	
12														
14													Damp	
16								VX						
18														
20													Damp	
22													Damp	
24														
26														
28						BOTTOM OF HOLE 30'							Damp	

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

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160+

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DS-14-5-74 b

BORROW PIT 176

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 704+00 | OFFSET. | ELEV.

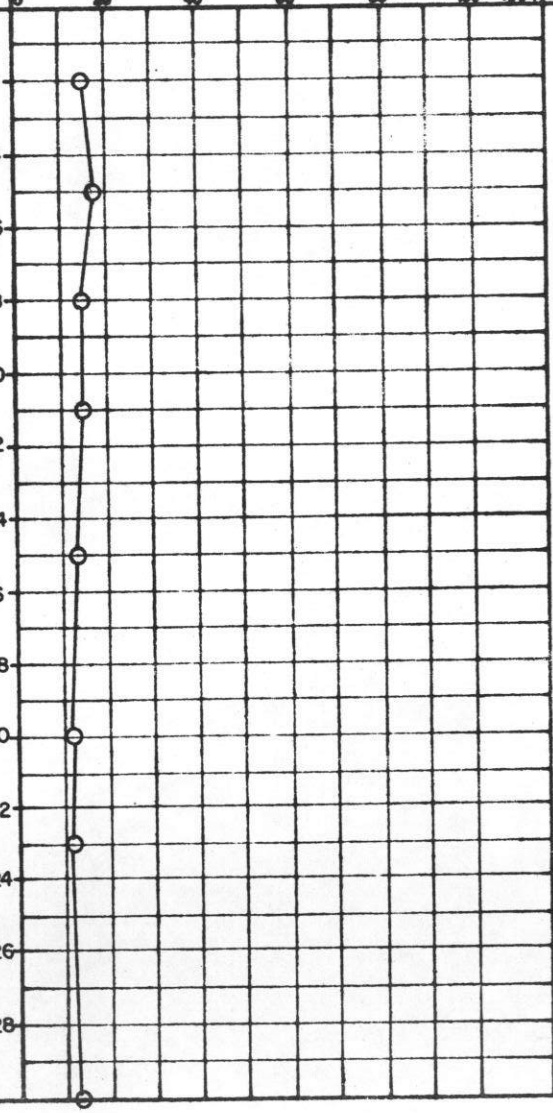
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce - Tamarack

TEST HOLE 4

MILE 737.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					CL	- Sandy Low Plastic		Low					Moist	
6														
8													Moist	
10							F	Ice					Moist	
12						Pebbles								
14													Damp	
16					CL	Low-Med. Plastic								
18					Cl			VX						
20													Damp	
22													Damp	
24														
26														
28														
						BOTTOM OF HOLE 30'							Damp	

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



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BORROW PIT 176

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 704+00 | OFFSET. | ELEV.

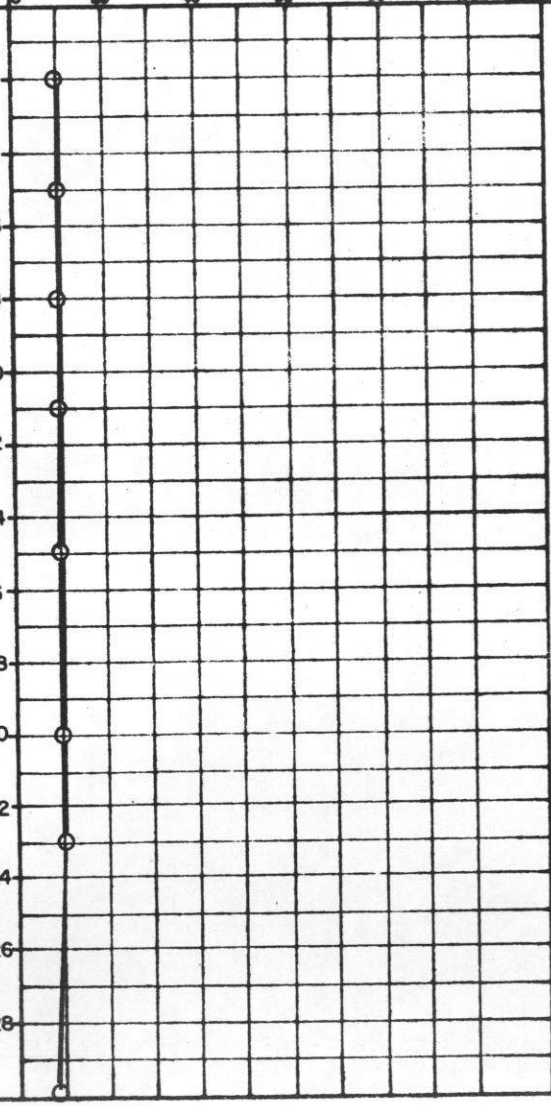
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce - Tamarack

TEST HOLE 5

MILE 737.7

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		
4						- Sandy		
6					CL	- Pebbles Low-Med. Plastic		Low
8								
10					Cl		F	Ice
12								
14								
16								VX
18								
20								
22								
24								
26								
28						BOTTOM OF HOLE 30'		

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



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

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE:

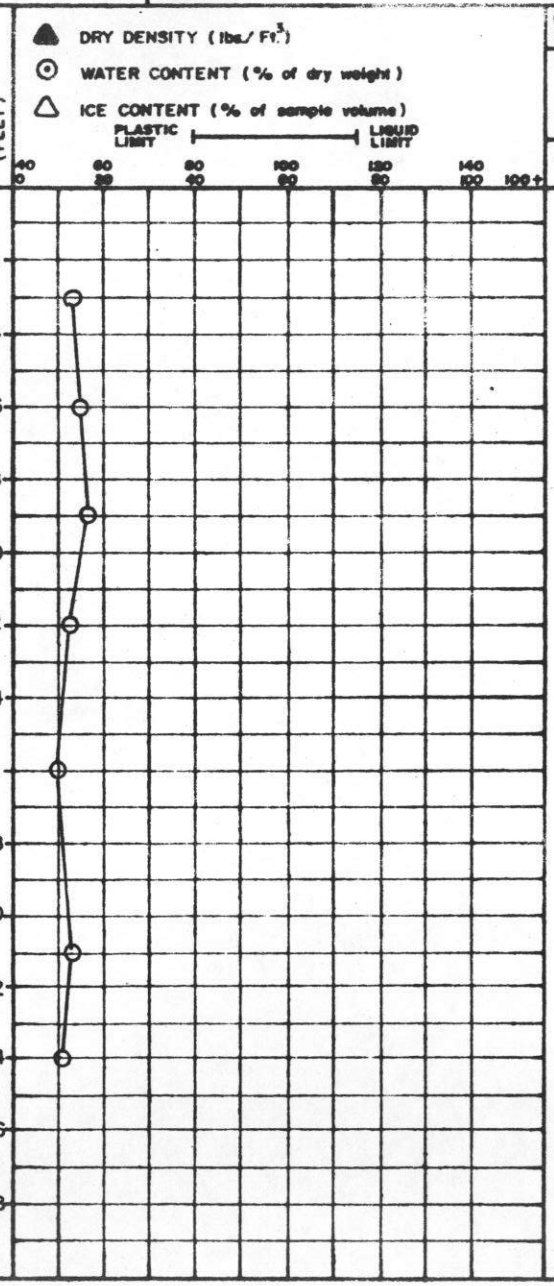
FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 704+00 | OFFSET.

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

TEST HOLE 6

MILE 737.7

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		
4						- Sandy		Low
6					CL	- Pebbles Low-Med. Plastic		
8					Cl			Ice
10							F	
12								
14								VX
16								
18								
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								



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

B074

DS-14-5-74 b

BORROW PIT 176

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 704+00 | OFFSET.

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

TEST HOLE 7

MILE 737.7

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'			Damp
4					CL	Clay - Silty - Sandy - Pebbles Low Plastic		Low Ice	Damp
8									Damp
12					Cl	Gravelly Med. Plastic Pebbles	F	VX	Damp
16									Damp
20									Damp
24									Damp Damp
28					Cl	Clay - Silty - Sandy - Pebbles Med. Plastic	F	Low Ice	Damp
32									Moist
36									Moist
40									
						42' BOTTOM OF HOLE 42'			
44									
48									
52									
56									

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+
4	40	60	80	100	120	140			
8									
12									
16									
20									
24									
28									
32									
36									
40									
44									
48									
52									
56									

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

DS-14-5-74 a

BORROW PIT 176

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 704+00	OFFSET.	TEST HOLE 8
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 737.7

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					Damp	
2					Sc	Sand - Silty Clayey Pebbles								
4						5'								
6						Clay - Silty - Sandy - Pebbles		Vc - Vr					Sat.	
8					Cl	Low-Med. Plastic							Moist	
10							F.							
12					Cl			Low					Damp	
14														
16								Ice					Damp	
18														
20								VX					Damp	
22														
24						BOTTOM OF HOLE 25'							Damp	
26														
28														

BORROW PIT 176

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 704+00 | OFFSET.

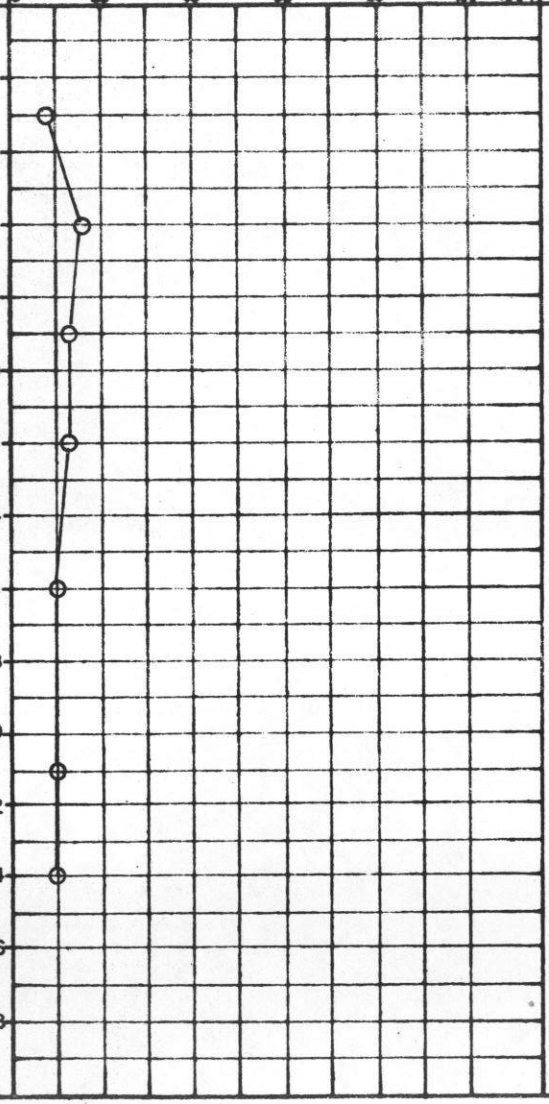
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 9

MILE 737.7

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					Sc	Sand-Clayey-Clay		
4					CL	Sandy 5'		Vc - Vr
6						Clay - Silty - Sandy - Pebbles Low Plastic	F	Low
8								
10								
12					CL	Low-Med. Plastic		Ice
14					Cl			
16						Med. Plastic		VX
18								
20					Cl			
22								
24								
26								
28								

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



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

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BORROW PIT 176

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 704+00	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 12

MILE 737.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT 1'			Moist	
4						Clay - Silty		Low	Moist	
6						- Sandy				
8					CL	- Pebbles		Ice		
10					Cl	Low-Med. Plastic	F		Moist	
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

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

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DS-14-5-74 b

BORROW PIT 177

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED 8/9/74 | AIRPHOTO NO. | CHAINAGE 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 5

MILE 739.7

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 .25'			
						Sand - Gravelly			
2					SP				Moist
4						4'		Low	
						Sand - Silty .			
6					SM	PEBBLES			Moist
8								Ice	
10									Moist
12							F	VX	Moist
14									
16									Wet
18									
20									Moist
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
0 20 40 60 80 100 120 140 160 180+

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

REMARKS

88-14-8-76 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 9/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.	TEST HOLE 6
TECH. BAINE	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 739.7

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						Sand - Medium Pebbles		Low					Damp	
4					SP	Fine		To						
6								Moderate					Moist	
8						Silty - Pebbles								
10					SM		F	Ice					Moist	
12													Moist	
14								Vx						
16													Wet	
18								Vc - Vr						
20													Moist	
22														
24						BOTTOM OF HOLE 25'							Sat.	
26														
28														

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

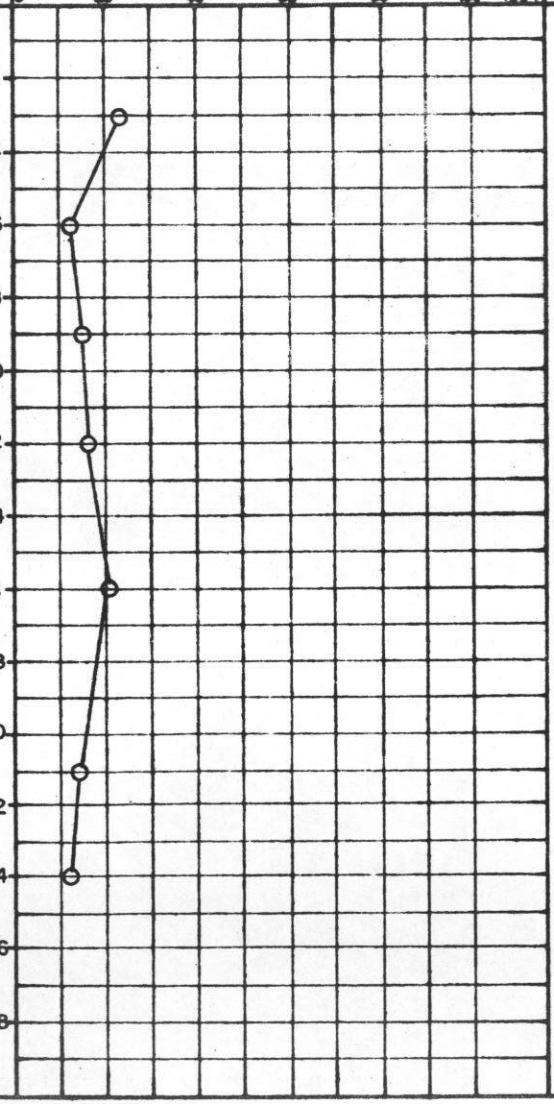
FIELD ENG. D. COOK | DATE DRILLED 4/4/74 | AIRPHOTO NO. | CHAINAGE 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 7

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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						Sand - Pebbles								
4						Medium		Moderate					Moist	
6					SM	Silty		Ice					Moist	
8													Moist	
10							F							
12								Vc -Vr					Moist	
14														
16													Moist	
18														
20													Moist	
22														
24						BOTTOM OF HOLE 25'							Moist	
26														
28														



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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.	TEST HOLE 8
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 739.7

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					SP	Sand - Pebbles Fine - Medium		Low Ice VX	2					Damp	
4									4						
6					SM	Silty			6					Damp	
8								Moderate Ice	8						
10									10					Moist	
12							F		12					Moist	
14								Vc - Vr	14						
16									16					Moist	
18					SM				18						
20									20						
22									22					Moist	
24									24					Moist	
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
0 40 20 60 40 80 60 100 80 120 100 140 120 109+

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BORROW PIT 177

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 9

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–7'					SM, ML, OL	Sand - Silt Mixture Organic		High Ice Vs
7'–15'					SM	Sand - Silty		Low & Moderate Ice
15'–17'						Gravel - Silty		
17'–25'					CL, Cl	Clay - Sandy Silty PEBBLES Low-Med. Plastic		VX Vc -Vr
25'						BOTTOM OF HOLE 25'		

DRY DENSITY (lbs./ ft³)
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
0–7'					Damp, Moist	
7'–15'					Damp, Wet	
15'–17'					Sat.	
17'–25'					Damp	Hole in bag

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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.	TEST HOLE 10
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 739.7

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 80 140 100 199+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					GP	Gravel - Sandy							HUMID	
4						4'		Low						
6					SM	Sand - Silty - Pebbles		Ice					MOIST	
8													MOIST	
10							F	VX						
12													MOIST	
14														
16													WET	
						17'								
18					GP	Gravel - Sandy 18'								
20					SM	Sand - Silty - Pebbles							MOIST	
22														
24						Ice		Ice						
26						BOTTOM OF HOLE 25'								
28														

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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/9/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 12

MILE 739.7

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						GRAVEL - SILTY							Humid
4					GM	Sandy		Low					
6								Ice					Moist
8						Silty							Moist
10						11'							
12						Sand - Gravelly	F	VX					Moist
14													
16					SM	Silty - Pebbles							Moist
18													
20													Moist
22						23'							
24					CL	Clay - Silty Sandy Pebbles							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

BORROW PIT 177

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 9/9/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.	
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 13
					MILE 739.7

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+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					GP	Gravel - Sandy							Humid	
4						4'								
6						Sand - Silty Pebbles		Low Ice					Damp	
8					SM								Damp	
10						Silty	F							
12													Moist	
14								VX						
16						Pebbles							Damp	Hole in Bag
18														
20						20'								
22					CL	Clay - Silty - Sandy - Pebbles							Dry	Hole in Bag
24					Cl	Low-Med. Plastic							Moist	
26						BOTTOM OF HOLE 25'								
28														

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BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. D. COOK | DATE DRILLED. 4/9/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 1

MILE 739.7

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		VX
4						- Sandy - Pebbles		Low
6					CL	:pw-Med. Plastic		To
8					Cl			
10							F	Nil
12								
14								Ice
16								
18								
20								Nbn
22								
24						BOTTOM OF HOLE 25'		
26								
28								

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

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	
				Wet	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	

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BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

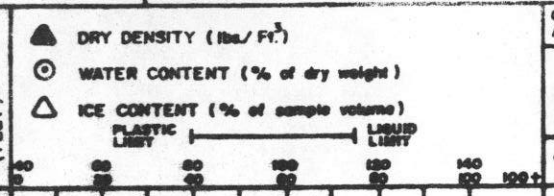
FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 2

MILE 739.7

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



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BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00	OFFSET.	
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 3

MILE 739.7

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

B074

38-14-5-74 b

BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 4

MILE 739.7

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 - Gravelly Clayey		
6					Gc	Gravel - Clay-Sand Mix		Vc - Vr
8						8'		
10					CL	Clay - Silty Sandy Pebbles Low-Med. Plastic	F	Low Ice
12					Cl			
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

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

B074

BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 | OFFSET.

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

TEST HOLE 5

MILE 739.7

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 2'		Moderate	Wet
4						Clay - Sandy		Vc - Vr	
6						- Silty			Sat.
8					CL	Pebbles		Ice	
10						Low-Med. Plastic	F		Moist
12					Cl			Low	Moist
14								Ice	
16									Damp
18									
20								VX	Moist
22									Moist
24						BOTTOM OF HOLE 25'			
26									
28									

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

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

REMARKS

BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 6

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 Vs					Sat.	
						Clay - Silty		To						
4						- Sandy		Moderate					Sat.	
6						-Pebbles		Ice						
						Low-Med. Plastic		Vc - Vr						
8					CL								Damp	
10					Cl			Low					Damp	
12							F							
14													Damp	
16								Ice						
18														
20													Damp	
22								VX					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+

BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.	TEST HOLE 7
TECH. WEBER	RIG. Mayhew #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 739.7

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

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

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

80/4

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BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.	TEST HOLE 9
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 739.7

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+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					Moist	
4						Clay - Silty		Ice						
6						- Sandy		Vc - Vr					Wet	
8					CL	- Pebbles Low-Med. Plastic							Moist	
10					Cl		F	Low					Moist	
12														
14								Ice					Moist	
16														
18								VX						
20													Moist	
22													Damp	
24						BOTTOM OF HOLE 25'								
26														
28														

BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED 4/4/74	AIRPHOTO NO.	CHAINAGE 814+00	OFFSET.	TEST HOLE 10
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 739.7

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 PERMAFROST GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE TRAINED MOISTURE CONTENT	REMARKS
2					Pt	PEAT 2'		High Vs To					Free Water	
4						Clay - Silty - Sandy - Pebbles		Moderate Vc - Vr Ice						
6					CL	Low-Med. Plastic	F						Wet	
8					Cl			Low					Moist	
10						11'							Moist	
12					Sc	Sand - Silty Clayey 13'		Ice						
14													Moist	
16					CL	As Above		VX						
18														
20					Cl								Moist	
22													Moist	
24						BOTTOM OF HOLE 25'								
26														
28														

BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 9/9/74	AIRPHOTO NO.	CHAINAGE. 814+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 11

MILE 739.7

REMARKS

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

PLASTIC LIMIT — LIQUID LIMIT

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

BORROW PIT 178

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 9/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 | OFFSET.

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

TEST HOLE 12

MILE 739.7

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

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

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

2074

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BORROW PIT 180

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

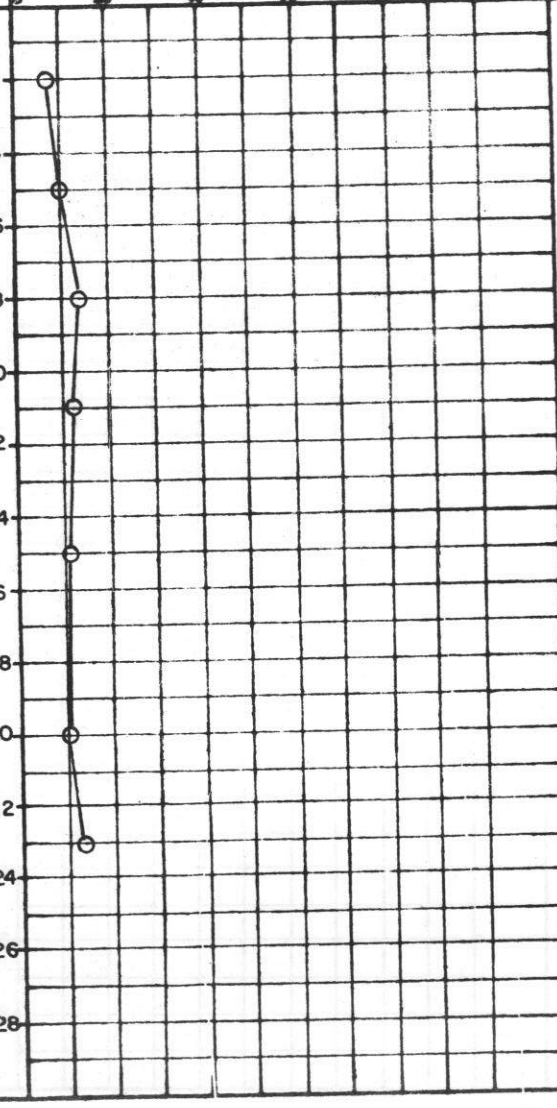
FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					SM	Sand - Silty							Damp	
4						4'		Low					Wet	
6						Clay - Silty - Sandy - Pebbles								
8					CL	Low-Med. Plastic							Moist	
10					Cl			Ice					Moist	
12							F							
14													Moist	
16														
18								VX						
20						Gravelly							Moist	
22													Moist	
24						Pebbles								
26						BOTTOM OF HOLE 25'								
28														

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



DS-14-5-74 b

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.	TEST HOLE 1
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		VX
4						Clay - Silty - Org. to 4' - Sandy		Low
6					CL	- Pebbles Low-Med. Plastic		
8					Cl			To
10								Nil
12								
14								Ice
16								
18								
20								Nbn
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				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp	

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DS-14-5-74 b

BORROW PIT 179

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: Section -D-

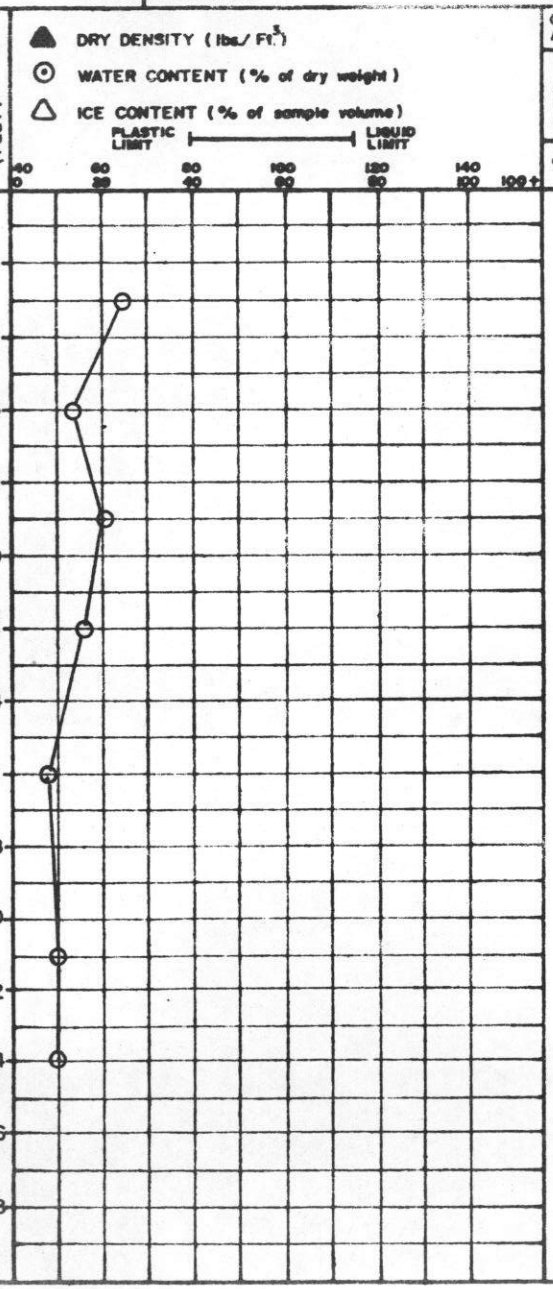
FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 | OFFSET.

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

TEST HOLE 4

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						Clay - Silty Sandy Pebbles Low Plastic		
4					CL	Gravelly		
6								
8								
10						11'		
12					Sc	Sand - Silty Clayey		
14						14'		
16						Clay - Silty Sandy Pebbles		
18					CL Cl	Low-Med. Plastic		
20						Boulders 15' - 16'		
22								
24								
26								
28								



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

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BORROW PIT 179

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE 814+00 (Seismic Line)	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE 739.7

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		Moderate Ice
2					Sc	Sand - Gravelly Clayey		
4						4'		Vc - Vr
6						Clay - Silty - Sandy - Pebbles		
8						Low-Med. Plastic		
10					CL		F	Low
12								
14					Cl	Gravelly		
16						Boulders 16' - 17'		Ice
18								
20						Silty Sandy		VX
22								
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

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

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160+

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

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BORROW PIT 179

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 6

MILE 739.7

REMARKS

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

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.³)

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

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

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT

Free Water

Wet

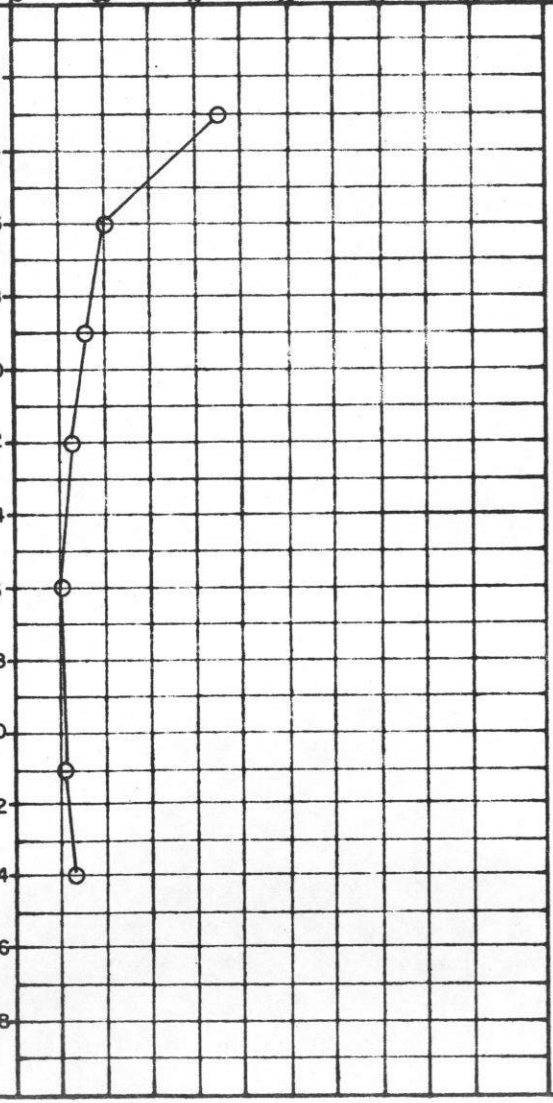
Moist

Moist

Damp

Damp

Damp



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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 | OFFSET.

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

TEST HOLE 1

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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					SM	Sand - Silty							Damp	
4						4'		Low						
4						Clay - Silty - Sandy - Pebbles							Wet		
6														
8					CL	Low-Med. Plastic							Moist	
10					Cl			Ice					Moist	
12							F							
14													Moist	
16														
18								VX						
20						Gravelly							Moist	
22													Moist	
24						Pebbles								
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+

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BORROW PIT 180

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 2

MILE 739.7

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

DRY DENSITY (lbs./ Ft³)
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 40 60 80 100 120 140 160 100+

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DS-14-5-74 b

BORROW PIT 180

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 4

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		
						Clay - Silty		
4						- Sandy		
					CL	- Pebbles		Low
6						Low-Med. Plastic		
8					Cl			
							F	Ice
10								
12						Gravel - Clay - Sand Mix		
14								
16						Clay - Silty Sandy		VX
					CL	Pebbles		
18								
					Cl			
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 80 100 120 140 160 180 200+

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

8074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.	TEST HOLE 1
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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'		VX					Moist	
4						Clay - Silty - Org. to 4' - Sandy		Low					Moist	
6					CL	- Pebbles Low-Med. Plastic								
8					Cl			To					Moist	
10								Nil					Damp	
12														
14								Ice					Damp	
16														
18														
20								Nbn					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 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

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DS-14-5-74 b

BORROW PIT 181

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 9/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 739.7

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT .5'		VX					
2													Moist
4						Clay - Silty		Low					
						- Sandy - Pebbles							Moist
6					CL	Low-Med. Plastic							
8					Cl		F	To					Moist
10													
													Moist
12								Nil					
14													Damp
16													
18								Ice					
20													Damp
								Nbn					
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 80 100 120 140 160+

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

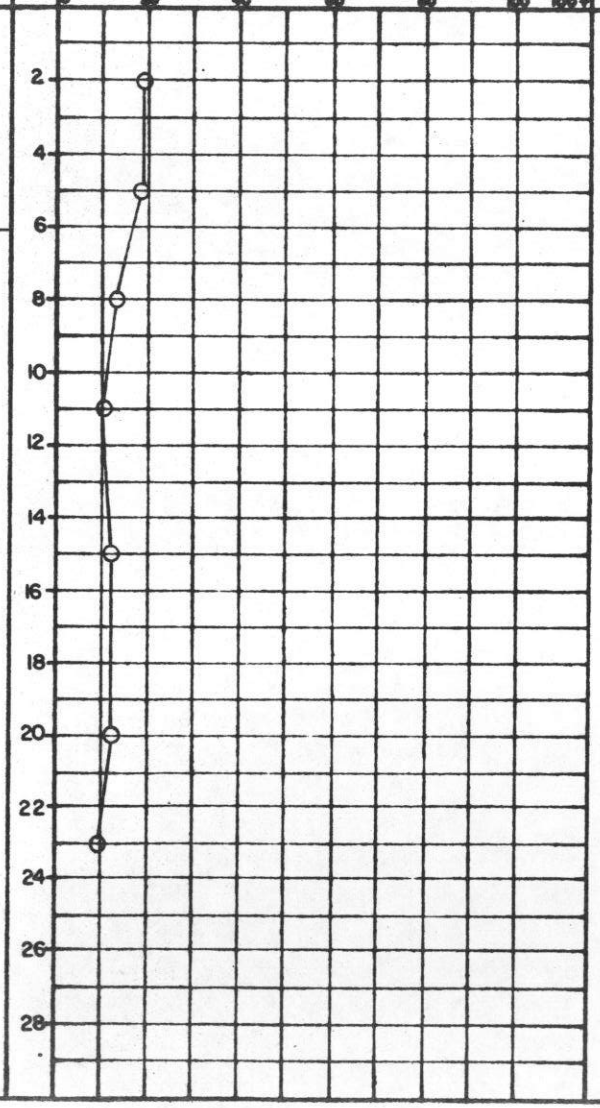
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE 739.7

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		Moderate Ice Vc - Vr
4						- Sandy		
6					CL	- Pebbles		
8						Low Plastic		
10							F	Low
12					CL	Low-Med. Plastic		
14								Ice
16					Cl			
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



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

B074

DS-14-5-74 b

BORROW PIT 181

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 4

MILE 739.7

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'		VX	
2									Moist
						Clay - Silty		Low	
4						- Sandy			Moist
6						- Pebbles			
					CL	Low-Med. Plastic		To	
8									Moist
					Cl				
10							F		Moist
12								Nil	
14									Damp
16								Ice	
18									
20								Nbn	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

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

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DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D -

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 | OFFSET.

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

TEST HOLE 5

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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'		Vx						
2						Clay - Silty		Low					Moist	
4						- Sandy							Moist	
6					CL	- Pebbles Low Plastic		To						
8													Sat.	
10							F						Moist	
12								Nil						
14													Damp	
16					Cl	Med. Plastic		Ice						
18														
20								Nbn					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+

BORROW PIT 181

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

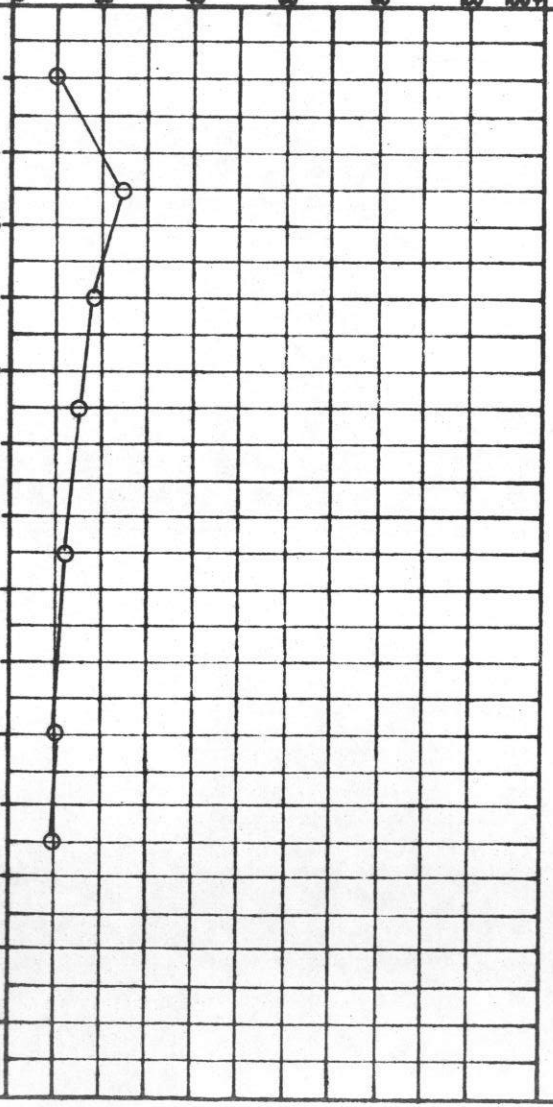
FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 6

MILE 739.7

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	Low VX
2						Clay - Silty		To
4						- Sandy		High
6					CL	- Pebbles Low Plastic		Ice
8								Vs VX
10					CL	Low-Med. Plastic		Low
12								
14					Cl			To
16								Nil
18								Ice
20								
22								Nbn
24						BOTTOM OF HOLE 25'		
26								
28								

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



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

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BORROW PIT 181

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 7

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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'		VX						
2						Clay - Silty		Low					Moist	
4					CL	- Sandy - Pebbles							Moist	
6						Low-Med. Plastic		To						
8													Moist	
10					Cl		F	Nil					Moist	
12								Ice						
14													Moist	
16								Nbn						
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
0 20 40 60 80 100 120 140 160+

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DS-14-5-74 b

BORROW PIT 181

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

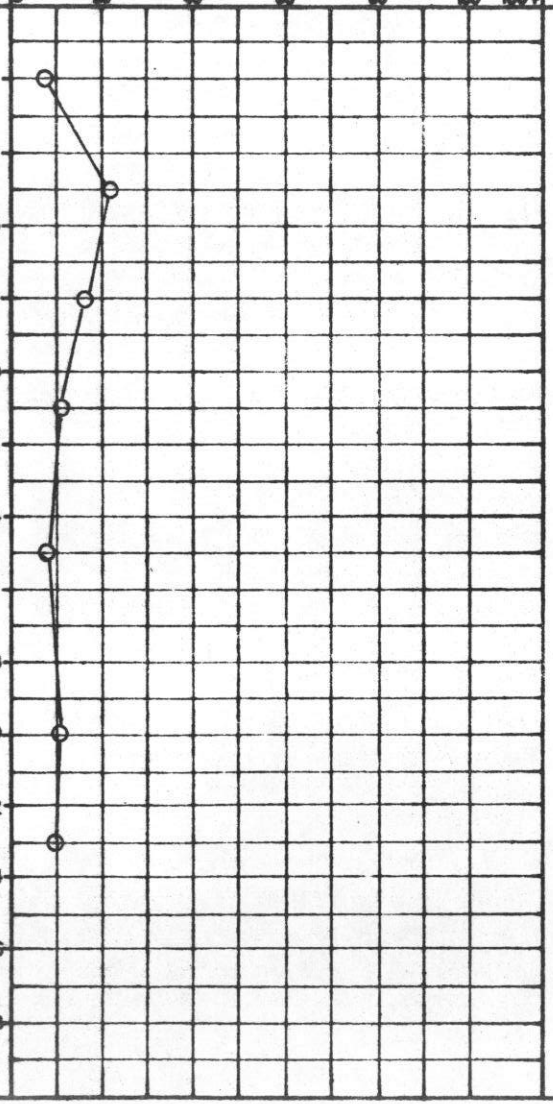
FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1'		Low Vx
4						Clay - Silty		To
6						- Sandy		Moderate
8					CL	- Pebbles		Ice
10					Cl	Low Plastic	F	Vc - Vr
12						Low-Med. Plastic		Low
14								
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 %		
				Moist	
				Sat.	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	

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BORROW PIT 181

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 4/4/74 | AIRPHOTO NO. | CHAINAGE. 814+00 (Seismic Line) | OFFSET.

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

TEST HOLE 9

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						Clay - Silty		
4						- Sandy		
6					CL	- Pebbles Low-Plastic		High Ice
8								
10							F	Vs
12						Sand-Clayey		Low
14					Cl	Low-Med. Plastic		
16								
18					Cl			
20								
22								Ice
24						BOTTOM OF HOLE 25'		VX
26								
28								

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

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

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BORROW PIT 181

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DRILL HOLE REPORT

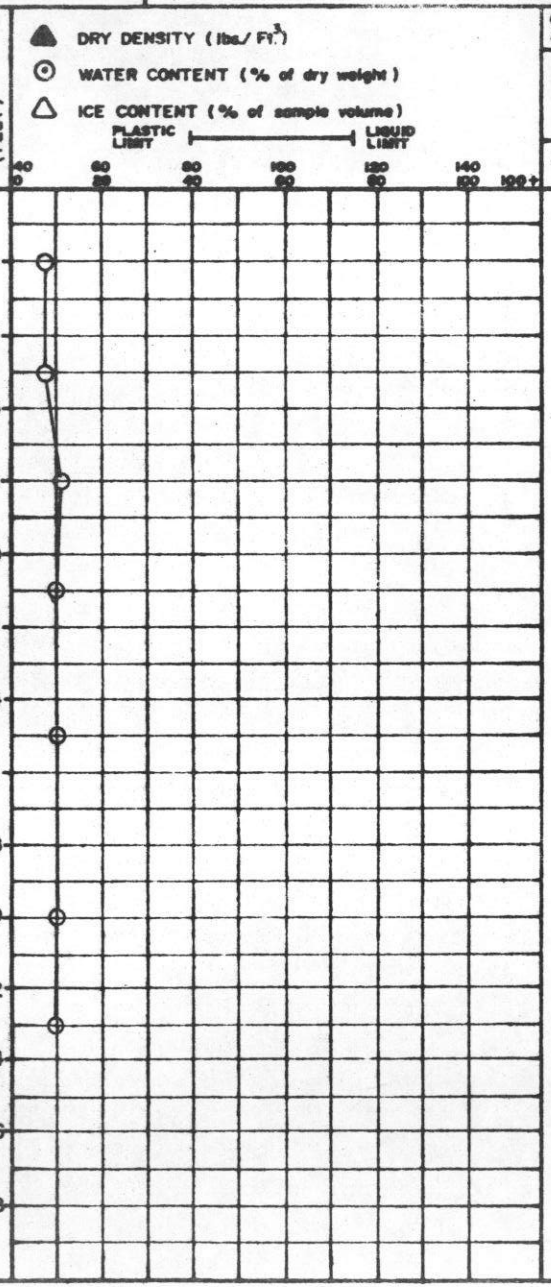
SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 10

MILE 739.7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					CL	Clay - Gravelly Sandy		Low
4								
6						5'		
8					Sc	Sand - Gravelly Clayey Pebbles	F	
10						11'		
12						Clay - Silty - Sandy - Pebbles		
14					CL	Low-Med. Plastic		Ice
16					Cl			
18								VX
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								



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

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BORROW PIT 181

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 4/4/74	AIRPHOTO NO.	CHAINAGE. 814+00 (Seismic Line)	OFFSET.	TEST HOLE 11
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 739.7

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'		Vc - Vr						
2						Clay - Silty		Moderate					Moist	
4						- Sandy							Wet	
6					CL	- Pebbles Low-Med. Plastic		To						
8													Moist	
10								Low						
12					Cl		F	Ice					Damp	
14													Moist	
16														
18								VX						
20													Moist	
22													Damp	
24						BOTTOM OF HOLE 25'								
26														
28														

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BORROW PIT 182

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D.COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 692+00 | OFFSET.

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

TEST HOLE 1

MILE 737.4

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
0					Pt	PEAT 1'								
2						Clay - Sandy		Low						Hole in Bag
4						- Silty								
6						- Pebbles							Damp	
8						Med. Plastic		Ice						
10					Cl		F						Damp	
12								VX						
14													Damp	
16														
18													Damp	
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
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 102+

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DS-14-5-74 b

BORROW PIT 182

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce & Birch 5"	ELEV.

TEST HOLE 2

MILE 737.4

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					SM	Sandy - Silty - Pebbles		Low
4						5'		
6					CL	Clay - Silty - Sandy - Pebbles	F.	Ice
8						Low-Med. Plastic		
10								
12					Cl			VX
14								
16								
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
0 20 40 60 80 100 120 140 160+

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

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

REMARKS

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.	TEST HOLE 3
TECH. McINTOSH	RIG. MATHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce & Birch 8"	ELEV.	MILE 737.4

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 - Silty		
						- Sandy		
4						- Pebbles		Low
6						Med. Plastic		
8								Ice
10					Cl		F	
12								
14								VX
16								
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
40 60 80 100 120 140 160+

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

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BORROW PIT 182

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 692+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce 7" - Birch 5" | ELEV.

TEST HOLE 4

MILE 737.4

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'			
4						Clay - Sandy			Moist
6						- Silty		Low	
8						- Pebbles			Moist
10					Cl	Med. Plastic		Ice	
12							F		Moist
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 80 100 120 140 160 180+

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

REMARKS

B074

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BORROW PIT 182

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce 6" - Birch 4"	ELEV.

TEST HOLE 5

MILE 737.4

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		
						- Silty		Low
4						- Pebbles		
6						Low-Med. Plastic		
8					CL			Ice
10					Cl		F	
12								VX
14								
16								
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)	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
					Damp
					Moist
					Moist
					Damp
					Damp
					Damp
					Damp

REMARKS

B074

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BORROW PIT 182

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 692+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION Spruce 6" - Birch 4" | ELEV.

TEST HOLE 6

MILE 737.4

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						Sand - Silty		
					SM			
4						4'		Low
6						Clay - Sandy		
						- Silty		Ice
8						- Pebbles		
10						Med. Plastic		
12					Cl		F	VX
14								
16								
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
40 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					Damp	
4						
6					Moist	
8					Moist	
10						
12					Damp	
14						
16					Damp	
18						
20						
22					Damp	
24					Damp	
26						
28						

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BORROW PIT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce & Birch 8ft	ELEV.

TEST HOLE 7

MILE 737.4

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

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

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

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.	TEST HOLE 8
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce & Birch 4"	ELEV.	MILE 737.4

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

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

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

REMARKS

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.	TEST HOLE 10
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce & Birch 9"	ELEV.	MILE 737.4

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
					Pt	PEAT 1'									
2						Clay - Sandy		Low	2					Moist	
4						- Silty			4						
6						- Pebbles		To	6						Hole in Bag
8					CL	Low-Med. Plastic		Moderate	8					Damp	
10					Cl			Ice	10						
12							F		12					Humid	
14								VX	14						
16								Vc - Vr	16					Moist	
18									18						
20									20					Moist	
22									22						
24						BOTTOM OF HOLE 25'			24					Moist	
26									26						
28									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+

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce 7" - Birch 9"	ELEV.

TEST HOLE 11

MILE 737.4

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 1'								
2						Clay - Silty							Damp	
4						- Sandy - Pebbles								
6						Med. Plastic		Low					Damp	
8								Ice					Damp	
10					Cl									
12													Damp	
14							F	VX					Damp	
16														
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
0 20 40 60 80 100 120 140 160+

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DRILL HOLE REPORT

SITE: SECTION -D-

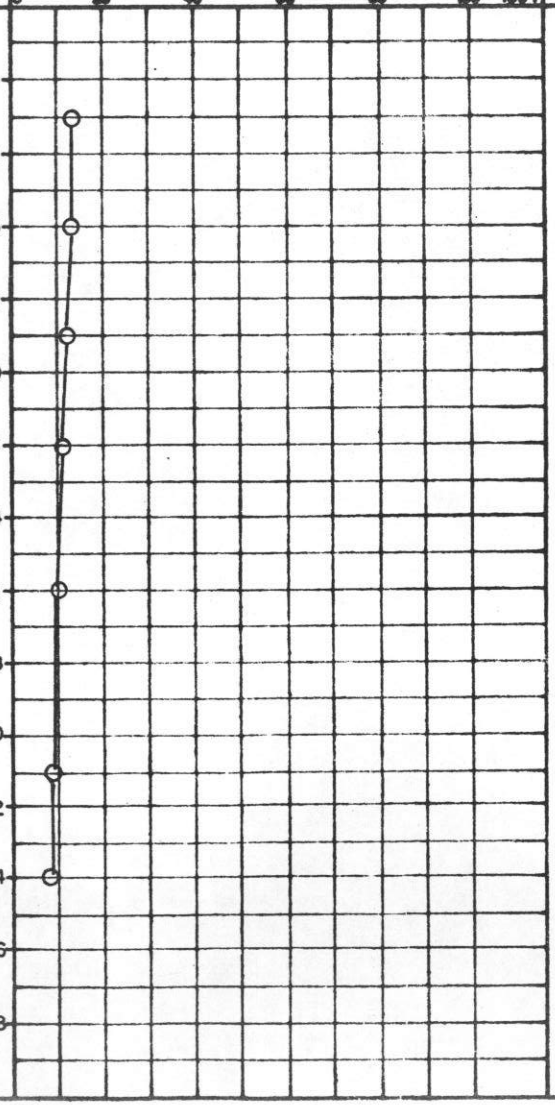
FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce & Birch 5"	ELEV.

TEST HOLE 12

MILE 737.4

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 - Silty		Low
4						- Sandy		
						- Pebbles		
6						Low-Med. Plastic		Ice
8					CL			
10								
12					Cl		F	VX
14								
16								
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)	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Moist	
6					Moist	
8					Damp	
12					Damp	
16					Damp	
20					Damp	
24					Damp	

GRAIN-SIZE ANALYSIS

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 692+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce & Tamarack 5" | ELEV.

TEST HOLE 13

MILE 737.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1.5'		Moderate Ice
2						Clay - Org. to 4'		Vc - Vr
4						- Sandy		
6						- Silty		Low
8					CL	- Pebbles Low- ed. Plastic		
10							F	Ice
12					Cl			
14								VX
16								
18						18'		
20					SM	Sand - Silty - Med.		
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 CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Wet	
				Moist	
				Moist	
				Damp	
				Damp	
				Moist	
				Humid	

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BORROW PIT 182

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DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.	TEST HOLE 14
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Tamarack	ELEV.	MILE 737.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0-2					Pt	PEAT 1.5'		
2-4					CL	Clay - Silty Sandy Pebbles		
4-6					Sc	Sand - Silty Clayey 4'		Low
6-8						7'		Ice
8-10					CL	Clay - Sandy Pebbles		
10-12						Low-Med. Plastic	F	
12-14					Cl			VX
14-16						Silty		
16-18								
18-20								
20-22								
22-24								
24-26						BOTTOM OF HOLE 25'		
26-28								

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

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

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.	TEST HOLE 15
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. FAIR	VEGETATION SPRUCE - TAMARACK	ELEV.	MILE 737.4

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
0					Pt	PEAT 1'								
2						Clay - Silty							Moist	
4					CL	- Sandy - Pebbles							Moist	
6						Low Plastic		Low						
8													Damp	
10							F	Ice						
12													Damp	
14					Cl	Med. Plastic		VX						
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
0 20 40 60 80 100 120 140 160+

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.

TEST HOLE 16

MILE 737.4

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 1'			2					Moist	
4						Clay - Silty			4						
6						- Sandy			6						Hole in Bag
8						- Pebbles		Low	8						
10					Cl	Med. Plastic		Ice	10					Moist	
12							F	VX	12					Damp	
14									14						
16									16					Damp	
18						19'			18						
20						Sand - Silty			20					Moist	
22					SM	- Pebbles			22						
24						BOTTOM OF HOLE 25'			24					Wet	
26									26						
28									28						

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

PLASTIC LIMIT — LIQUID LIMIT

0 40 20 60 40 80 60 100 80 120 100 140 120 109+

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BORROW PIT 182

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.

TEST HOLE 17

MILE 737.4

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 1'								Hole in Bag
2						Clay - Silty								
4						- Sandy								
						- Pebbles		Low						
6					CL	Low-Med. Plastic							Moist	
								Ice						
8					Cl								Damp	
10														
12							F	VX					Damp	
14														
16													Damp	
18														
20														
22													Damp	
24													Damp	
						BOTTOM OF HOLE 25'								
26														
28														

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

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.

TEST HOLE 18

MILE 737.4

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 1'								
2						Clay - Silty							Wet	
4						- Sandy								
6						- Pebbles		Low						Hole in Bag
8					CL	Low-Med. Plastic		Ice					Damp	
10					Cl									
12							F						Damp	
14								VX						
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
0 20 40 60 80 100 120 140 160+

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BORROW PIT 182

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.

TEST HOLE 19

MILE 737.4

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'								
2						Clay - Silty								
4					CL Cl	- Sandy							Moist	
6						5'. Sand - Silty Fine		Low					Damp	
8					SM									
10						8' Clay - Silty - Sandy - Pebbles		Ice					Moist	
12						Med. Plastic	F						Damp	
14					Cl			VX						
16													Damp	
18														
20													Damp	
22														
24						BOTTOM OF HOLE 25'							Damp	
26														
28														

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.

TEST HOLE 20

MILE 737.4

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						Clay - Silty		
6						- Sandy		
8						- Pebbles		
10						Low-Med. Plastic		
12					CL		F.	
14					Cl			
16								
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
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	
				Damp	
				Damp	

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.

TEST HOLE 21

MILE 737.4

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
2					Pt	PEAT 1.5'							Moist	
4						Clay - Silty								
6						- Sandy							Damp	
8						Med. Plastic		Low						
10					Cl			Ice					Damp	
12							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 182

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

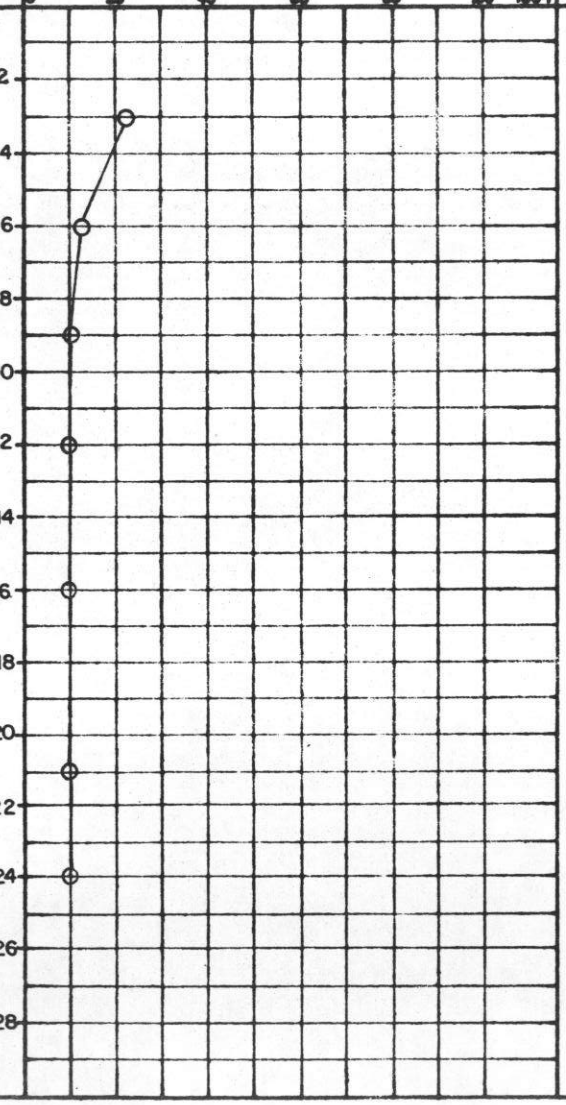
FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 22

MILE 737.4

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

REMARKS

B074

DS-14-5-74 b

BORROW PIT 182

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

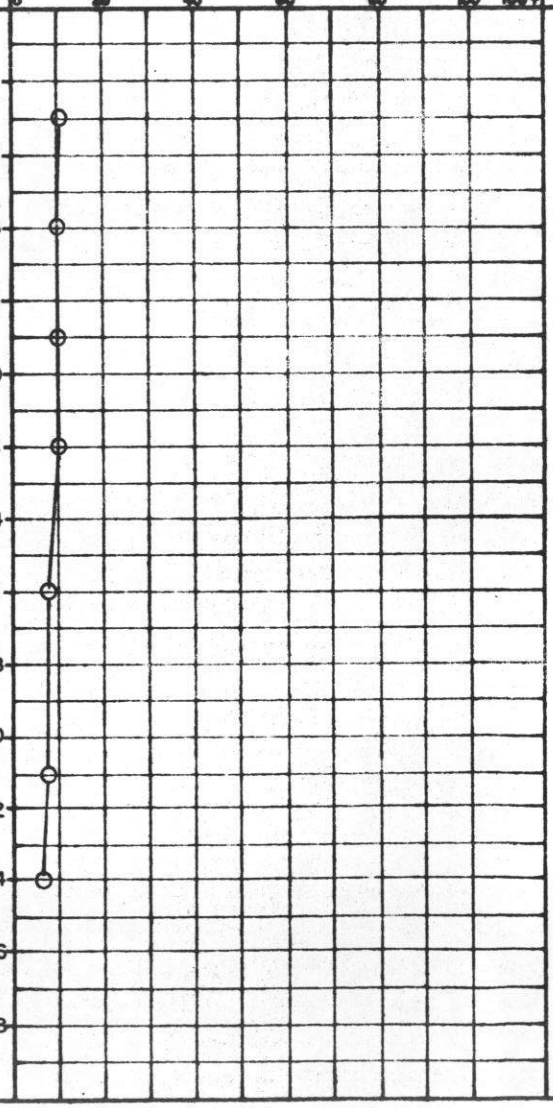
DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.	TEST HOLE 23
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 737.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		
4					CL	Clay - Silty - Sandy - Pebbles Low Plastic		Low
6								
8								Ice
10								
12					Cl	Med. Plastic	F	VX
14								
16								
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



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

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BORROW PIT 182

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE 692+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 24

MILE 737.4

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
2					Pt	PEAT 2'							Moist
4						Clay - Silty							
						- Sandy		Low					
6					CL	- Pebbles							Moist
						Low Plastic							
8								Ice					Moist
10													
12						Med. Plastic	F						Damp
14					Cl			VX					
16													Damp
18													
20													
22													Damp
24						BOTTOM OF HOLE 25'							Damp
26													
28													

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DS-14-5-74 b

BORROW PIT 182

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.	
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 25

MILE 737.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		
4					CL	Clay - Silty - Sandy		Low
6						- Pebbles		
8						Low-Med. Plastic		Ice
10					Cl			
12							F	VX
14								
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

0 20 40 60 80 100 120 140 160+

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

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DS-14-5-74 b

BORROW PIT 182

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 692+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 26

MILE 737.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		
4						Clay - Silty		
						- Sandy		Low
6						- Pebbles		
								Ice
8					CL	Low-Med. Plastic		
10							F.	VX
12					Cl			
14								
16								
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)	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	
Wet	
Damp	
Damp	
Damp	
Damp	
Damp	

B074

DS-14-5-74 b

BORROW PIT 182

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 692+00 | OFFSET.

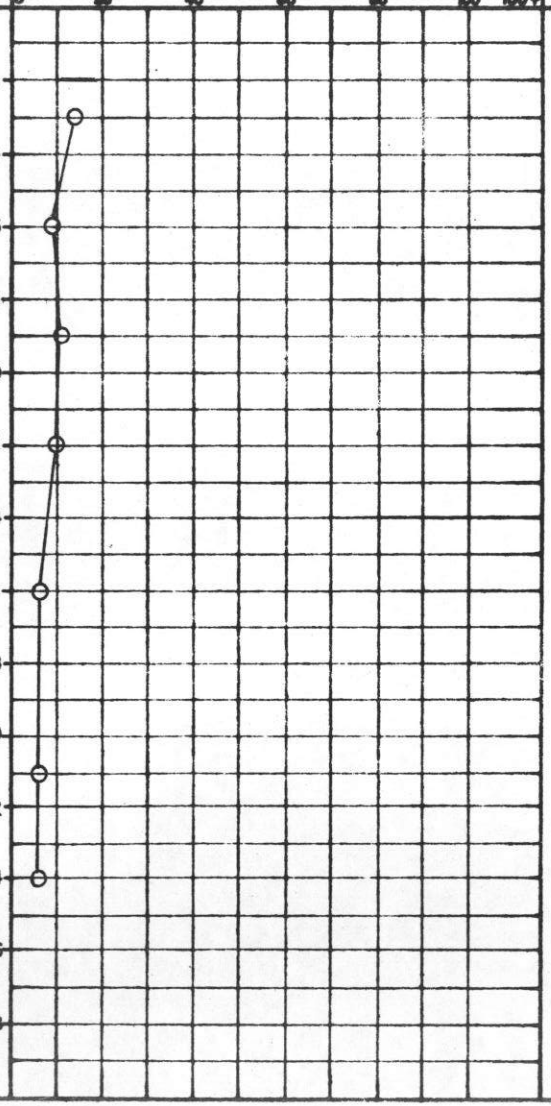
TECH. WEBER | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 27

MILE 737.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		
						Clay - Silty		
4						- Sandy		
6						- Pebbles		
						Low-Med. Plastic		Low
8					CL			Ice
10							F	
12					Cl			
14								VX
16								
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



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

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BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 651+00 | OFFSET.

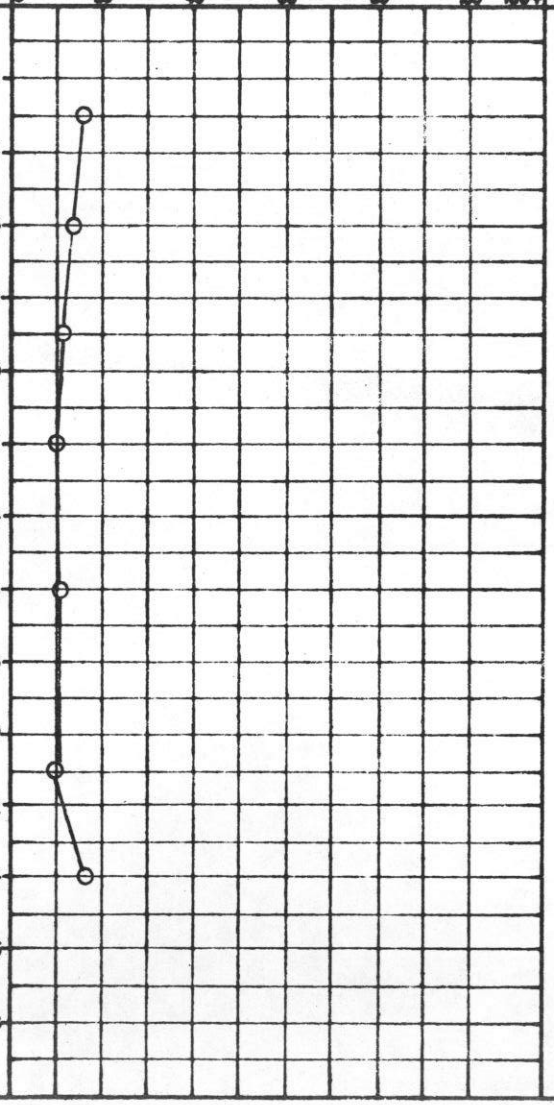
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE 736.6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2.5'		Moderate Ice
4					CL	Clay - Sandy - Silty - Pebbles Low Plastic		Vc - Vr
6								
8								
10							F	Low
12					Cl	Med. Plastic		
14								Ice
16								
18								VX
20								
22								
24						BOTTOM OF HOLE 25'		
26								
28								

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



DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Wet	
6					Wet	
8					Damp	
10					Damp	
16					Damp	
20					Damp	
24					Damp	

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BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 651+00 | OFFSET.

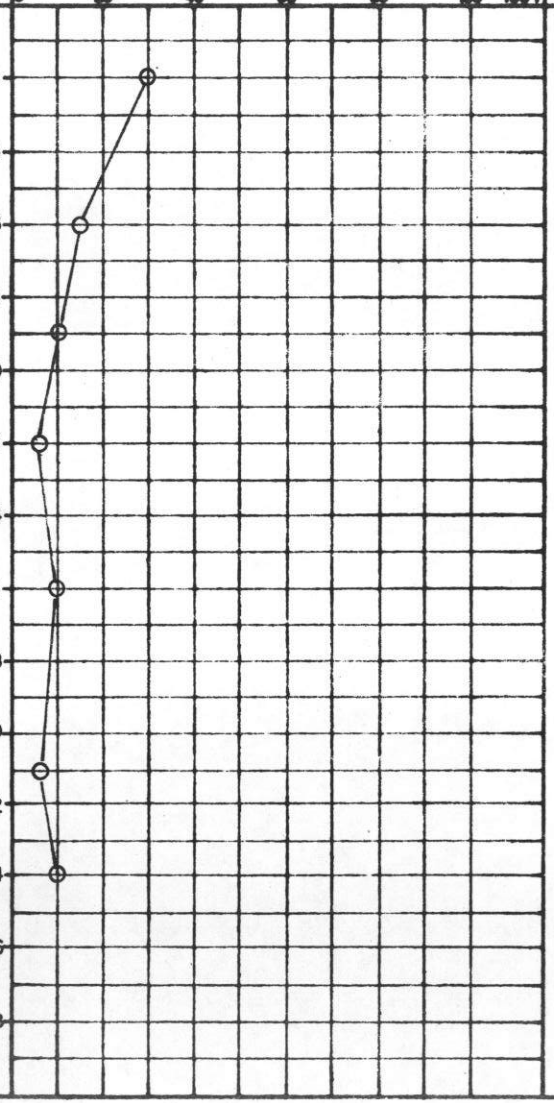
TECH. BAINE | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 2

MILE 736.6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 3'		Moderate Ice
4						Clay - Silty		
6						- Sandy		Vc - Vr
8						- Pebbles		
10					CL	Low-Med. Plastic		Low
12					Cl			Ice
14							F	
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



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

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BORROW PIT #183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 651+00	OFFSET.
TECH. Weber	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 3

MILE 736.6

REMARKS

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

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

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BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 651+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 736.6

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 2'			Moist
4						Clay - Organic to 4'		Low	
6						- Sandy			Damp
8						- Silty		Ice	
10					CL	- Pebbles			Moist
12					Cl	Low-Med. Plastic	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
0 20 40 60 80 100 120 140 160+

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

REMARKS

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DS-14-5-74 b

BORROW PIT 1.83

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 651+00 | OFFSET.

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

TEST HOLE 5

MILE 736.6

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'								
4						Clay - Silty							Moist	
6						- Sandy							Moist	
8					CL	- Pebbles								
10					Cl	Low-Med. Plastic		Low					Moist	
12						8'								
14						Sand - Clayey								
16						- Silty		Ice					Moist	
18					Sc	- Pebbles	F							
20								VX					Damp	
22						15'								
24						Clay - Silty								
26						- Sandy								
28						- Pebbles								
					Cl	Med. Plastic							Damp	
													Damp	
						BOTTOM OF HOLE 25'								

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

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DS-14-5-74 b

BORROW PIT 133

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

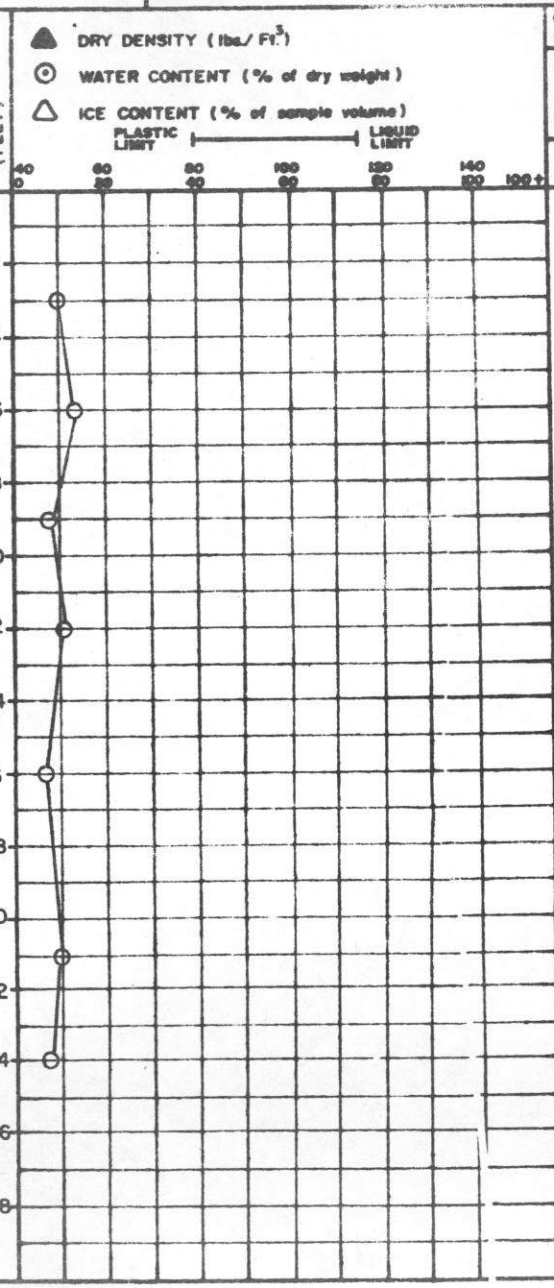
DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 651+00 | OFFSET. | TEST HOLE 6

TECH. WEBER | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV. | MILE 736.6

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



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

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BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 651+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 7

MILE 736.6

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'							Moist	
4						Clay - Silty								
6						- Sandy							Moist	
8					CL	- Pebbles Low-Med. Plastic		Low					Damp	
10					Cl			Ice						
12							F						Damp	
14								VX						
16													Damp	
18														
20													Damp	
22														
24						BOTTOM OF HOLE 25'							Damp	
26														
28														

B074

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BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 651+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE 736.6

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 Vc - Vr					
2–4						Clay-Organic to 4'							Moist
4–6						- Silty							
6–8					CL	- Sandy							Moist
8–10						- Pebbles		Low Ice					Moist
10–12						Low Plastic 11'	F	√x					Damp
12–14						Silt - Clayey							
14–16					Sc	- Sandy							Damp
16–18						- Pebbles 23'							
18–20													
20–22													Damp
22–24					Cl	Clay - Silty Sandy Pebbles							Damp
24–26						BOTTOM OF HOLE 25'							
26–28													

DS-14-5-74 b

BORROW PIT 1&3

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -B-

FIELD ENG. D. GORE | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 5280'00 | OFFSET.

TECH. [illegible] | RIG. [illegible] | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE

MILE 124.3

REMARKS

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 160 192+

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

B074

DS-14-5-74 b

BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 651+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 10

MILE 736.6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		
4						Clay - Sandy		
						- Silty		
6						- Pebbles		Low
						Med. Plastic		
8								Ice
10					Cl			
12							F	VX
14								
16								
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)	0	20	40	60	80	100	120	140	160+
2									
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
26									
28									

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT
Moist
Moist
Moist
Moist
Damp
Damp
Damp

REMARKS

BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 651+00	OFFSET.	TEST HOLE 11
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 736.6

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'								
4						Clay - Sandy							Moist	
						- Silty		Low						
6					Cl	- Pebbles							Moist	
						Med. Plastic								
8								Ice					Moist	
10						11'								
12					Sm	Sand - Silty - Pebbles							Moist	
						13'	F							
14						Clay - Silty		VX						
						- Sandy								
16						- Pebbles							Damp	
18					Cl	Med. Plastic								
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 80 100 120 140 160 180+

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BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 651+00 | OFFSET.

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

TEST HOLE 12

MILE 736.6

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'							Moist	
4						Clay - Sandy								
						- Silty								
6						- Pebbles							Moist	
8					Cl	Med. Plastic								
10													Damp	
						11'								
12						Sandy - Clayey Silty							Moist	
					Sc	- Pebbles 13'								
14						Clay - Silty								
						- Sandy								
16						- Pebbles								Hole in Bag
18					Cl	Med. Plastic								
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

BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 651+00	OFFSET.	TEST HOLE 14
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 736.6

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
2					Pt	PEAT 2'								
4						Clay - Sandy			Moist					
6						- Silty		Low	Moist					
8						- Pebbles								
10					Cl	Med. Plastic		Ice	Moist					
12							F	VX	Damp					
14														
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 80 100 120 140 160 180+

B074

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BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 651+00	OFFSET.
TECH. WEBER	RIG.	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 15

MILE 736.6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		
4					CL	Clay - Silty Sandy Pebbles 5'		
6					Sc	Sand - Clayey Silty - Pebbles 7'		Low
8					CL	Clay - Sandy Silty Pebbles 11'	F	Ice
12					GM	Gravel - Silty 14'		VX
16					Cl	Clay - Silty - Sandy - Pebbles Med. Plastic		
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 40 60 80 100 120 140 160 180+

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

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BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 651+00 | OFFSET.

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

TEST HOLE 16

MILE 736.6

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	Moderate Ice Vc - Vr
4						Clay - Sandy		
6						- Silty		Low
8					CL	- Pebbles		
10						Low-med. Plastic		Ice
12					Cl			VX
14								
16								
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
40 60 80 100 120 140 160 180+

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

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BORROW PIT 183

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 651+00	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 17

MILE 736.6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'		
						Clay - Silty		
4						- Sandy		
6						- Pebbles		Low
						Low-Med. Plastic		
8					CL			Ice
10					Cl		F	
12								
14								VX
16								
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)	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
2					Moist	
6					Wet	
8					Moist	
12					Damp	
16					Damp	
22					Damp	
24					Damp	

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DS:14.5.74 b

BORROW PIT #184

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

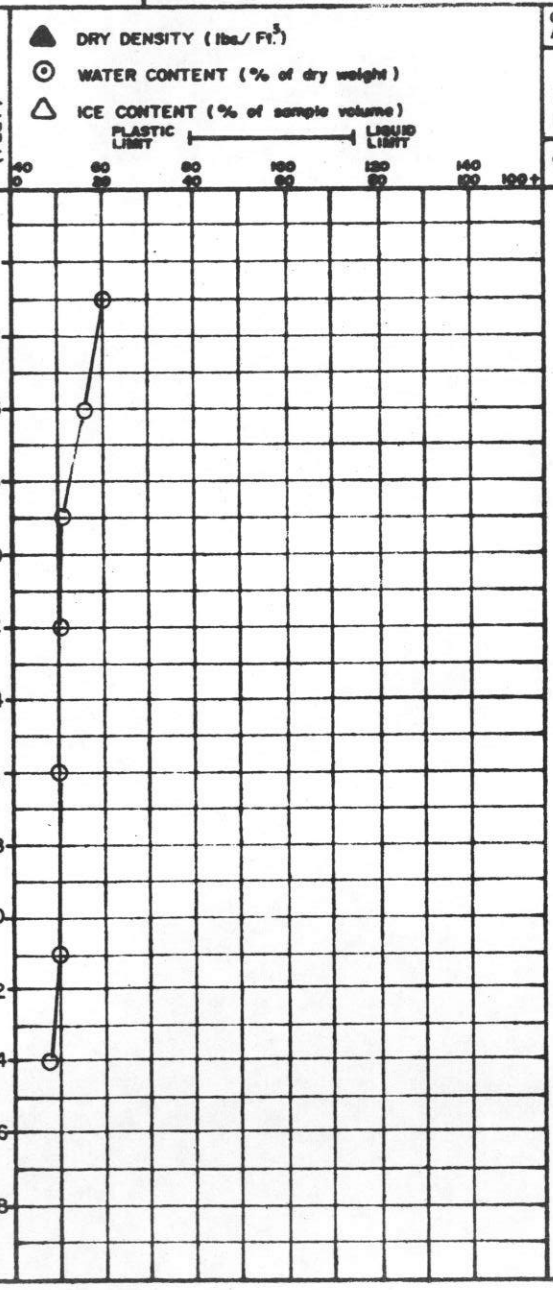
SITE: Section -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE 735.5

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



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

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BORROW PIT 184

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D.COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE 588+00	OFFSET.	TEST HOLE 2
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 735.5

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'							Damp	
4						Clay - Silty		Low						
6					CL	- Sandy - Pebbles Low-Med. Plastic		Ice					Moist	
8														
10					Cl								Damp	
12							F	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
0 20 30 40 60 80 100 120 140 160 180+

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BORROW PIT 184

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION - D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 588+00	OFFSET.	TEST HOLE 3
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 735.5

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 .2'		Moderate Ice					Damp	
4					CL	Clay - Silty - Sandy - Pebbles Low-Med. Plastic		Vc - Vr					Sat.	
8					Cl		F						Damp	
12								Low Ice					Damp	
16								VX					Damp	
20						20'							Moist	
					Sc	Sand- Clayey Silty Pebbles 22'								
24					CL	Clay - Silty Sandy Pebbles							Moist	
28														
32					Cl								Moist	
36													Moist	
40						BOTTOM OF HOLE 42'							Moist	
44														
48														
52														
56														

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BORROW PIT 184

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 588+00	OFFSET.	
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 4
					MILE 735.5

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 - Silty							Damp	
4						- Sandy								
6					CL	- Pebbles Low-Med. Plastic		Low					Moist	
8								Ice						
10					Cl		F.						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
0 20 40 60 80 100 120 140 160+

B074

DS-14-5-74 b

BORROW PIT 184

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 588+00 | OFFSET.

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

TEST HOLE 5

MILE 735.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	REMARKS
2					Pt	PEAT .5'			
4						Clay - Silty			
6						- Sandy		Low	
8					CL	- Pebbles		Ice	
10						Low-Med. Plastic			Hole in Bag
12					Cl			VX	Hole in Bag
14							F		
16									Hole in Bag
18									
20									
22									
24						Gravelly			
26						BOTTOM OF HOLE 25'			
28									

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

PLASTIC LIMIT — LIQUID LIMIT

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

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BORROW PIT 184

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 588+00 | OFFSET.

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

TEST HOLE 6

MILE 735.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'				
2						Clay - Silty			Damp	
4						- Sandy				
6						- Pebbles		Low	Moist	
8					CL	Low-Med. Plastic		Ice	Damp	
10					Cl		F			
12								VX	Damp	
14										Hole in Bag
16										
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 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

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DS-14-5-74 b

BORROW PIT 184

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 588+00 | OFFSET.

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

TEST HOLE 7

MILE 735.5

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

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

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BORROW PIT 184

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 588+00 | OFFSET.

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

TEST HOLE 8

MILE 735.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		Moderate Ice
2						Clay - Silty		
4						- Sandy		Vc - Vr
6						- Pebbles		
8					CL	Low Plastic		
10						11'	F	Low Ice
12						Gravel - Clayey		
14					Gc	- Silty		
16						14'		
18						Clay - Silty		VX
20						- Sandy		
22						- Pebbles		
24					CL	Low-Med. Plastic		
26					Cl			
28						BOTTOM OF HOLE 25'		

DEPTH (FEET)

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

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

RELATIVE THAWED MOISTURE CONTENT

Sat.
Moist
Damp
Damp
Damp
Damp

REMARKS

Hole in Bag

B074

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BORROW PIT 134

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 588+00	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 9

MILE 735.5

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 - Silty		Low					Damp	
4						- Sandy								
6						- Pebbles							Wet	
8						Low-Med. Plastic		Ice						
10					CL								Damp	
12					Cl		F	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
0 20 40 60 80 100 120 140 160+

8074

DS-14-5-74 b

BORROW PIT 184

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 588+00 | OFFSET.

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

TEST HOLE 10

MILE 735.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'			
2						Clay - Silty		VX	
4						- Sandy			Damp
6						- Pebbles		Vc - Vr	Wet
8					CL	Low-Med. Plastic			Damp
10					Cl		F	Low	Damp
12									Damp
14								Ice	
16									Damp
18								VX	
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
40 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

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BORROW PIT 184

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 588+00	OFFSET.	TEST HOLE 11
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 735.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'				
2						Clay - Silty			Wet	
4						- Sandy		Low		
6						- Pebbles				Hole in Bag
8					CL	Low-Med. Plastic		Ice	Damp	
10					Cl		F		Damp	
12								VX		
14										
16									Damp	
18										
20									Damp	
22										
24						BOTTOM OF HOLE 25'				Hole in Bag
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	CLAY %	SILT %	SAND %	GRAVEL %

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BORROW PIT 185

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 585+00	OFFSET.
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE 735.5

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 .25'								
2						Clay - Sandy								
4						- Silty								
6						- Pebbles								Hole in Bag
8					CL	Low-Med. Plastic								
10					Cl			Low						Hole in Bag
12							F	Ice					Damp	
14														
16								VX					Damp	
18														
20														
22														Hole in Bag
24														Hole in Bag
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+

BORROW PIT 185

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE 585+00	OFFSET.	TEST HOLE 2
TECH. BAINE	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 735.5

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								
2						Clay - Silty							Moist	
4						- Sandy								
6						- Pebbles		Low					Moist	
8					CL	Low-Med. Plastic		Ice						Hole in Bag
10					Cl									
12							F	VX						Hole in Bag
14														
16													Damp	
18														
20													Damp	
22														
24													Damp	
26						BOTTOM OF HOLE 25'								
28														

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BORROW PIT 185

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 585+00 | OFFSET.

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

TEST HOLE 3

MILE 735.5

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 1/4'								
2					Gc	Gravel - Clayey								Hole in Bag
4						4'								
6					Cl	Clay - Silty - Sandy - Pebbles Med. Plastic	F	Low Ice VX						Hole in Bag
8														
10														
12														Hole in Bag
14														
16														
18														
20														
22														Open Bag
24						BOTTOM OF HOLE 25'								
26														
28														

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

8074

DS-14-5-74 b

BORROW PIT 185

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 585+00 | OFFSET.

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

TEST HOLE 4

MILE 735.5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2					Gc	Gravel - Clayey - Sandy							Damp	
4						5'								
6					CL	Clay - Silty Sandy Pebbles		Low					Damp	
8						8'								
10					Sc	Sand - Gravelly Clayey	F.	Ice					Damp	
12						11'							Damp	
14						Clay - Sandy Silty Pebbles - Gravelly		VX						
16					CL	Pebbles							Damp	
18						Low Plastic								
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
0 20 40 60 80 100 120 140 160 180+

B074

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BORROW PIT 185

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 585+00 | OFFSET.

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

TEST HOLE 5

MILE 735.5

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'								
2						Clay - Silty								Hole in Bag
4						Sandy								
						Pebbles - Gravelly							Damp	
6					CL	Low-Med. Plastic		Low						
8					Cl								Damp	
10							F	Ice						
12													Damp	
14						14'		VX						
						Sand - Clayey Silty								
16														Hole in Bag
18					Sc									
20													Damp	
22														
24														Hole in Bag
						BOTTOM OF HOLE 25'								
26														
28														

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

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BORROW PIT 186

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 556+00	OFFSET.	TEST HOLE 1
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Tamarack	ELEV.	MILE 734.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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								
6					Cl	- Pebbles Low-Med. Plastic		Low					Damp	
8					CL								Damp	
10							F	Ice						
12													Damp	
14								VX						
						15'								
16						Sand - Clayey							Damp	
18					Sc	Silty								
20													Damp	
						22'								
22						Clay - Silty								
24					CL Cl	Sandy Pebbles							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 60 80 100 120 140 100+

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DS-14-5-74 b

BORROW PIT 186

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

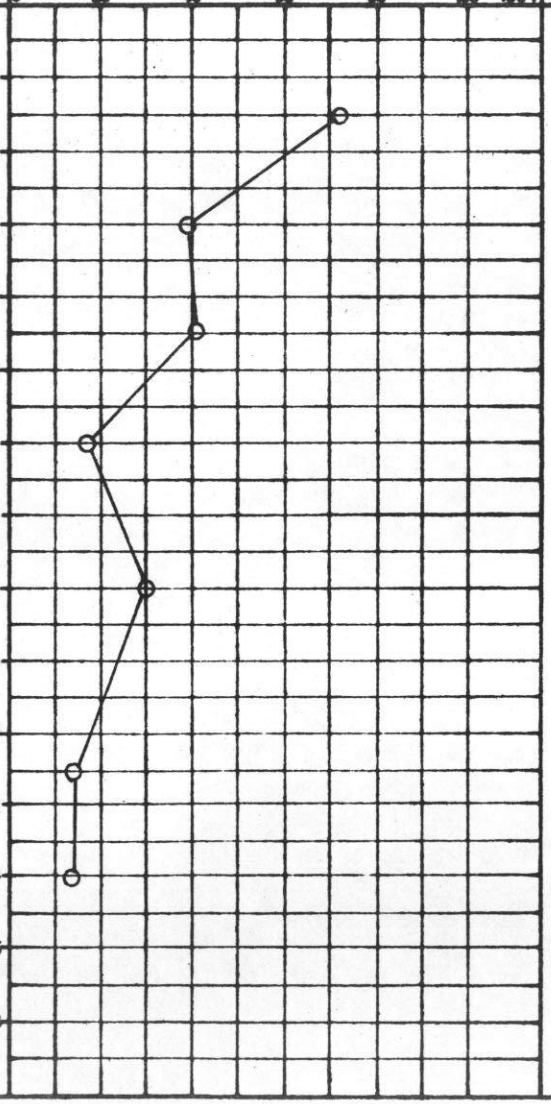
FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 556+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Tamarack	ELEV.

TEST HOLE 2

MILE 734.8

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					ML	Organic Silt		High Ice
6					OL		F	
8								Vs
10								
12								
14						15'		
16						Clay - Silty		Moderate Ice
18						- Sandy		
20					CL	- Pebbles Low-Med. Plastic		Vc - Vr
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



GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Free Water	
6					Free Water	
8					Wet	
12					Wet	
16					Damp	
20					Damp	
24					Damp	

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BORROW PIT 186

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

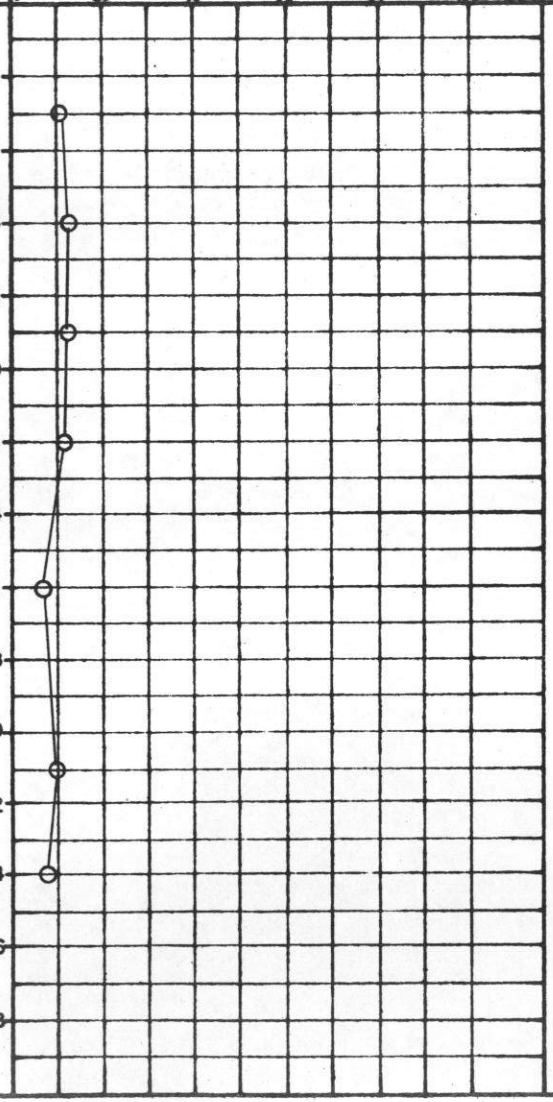
FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 556+00	OFFSET.
TECH. MCINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce & Tamarack	ELEV.

TEST HOLE 3

MILE 734.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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	
						- Sandy								
4						- Pebbles		Low					Wet	
6					CL	Low-Med. Plastic								
8								Ice					Damp	
10					Cl		F.	VX						
12													Damp	
14														
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 80 100 120 140 160 180+



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BORROW PIT 186

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 556+00	OFFSET.	TEST HOLE 4
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce & Tamarack	ELEV.	MILE 734.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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								
6						- Pebbles							Moist	
8						Low-Med. Plastic		Low					Damp	
10					CL									
12					Cl		F	Ice					Damp	
14														
16								VX					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 60 80 100 120 140 100+

BORROW PIT 186

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 556+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Tamarack	ELEV.

TEST HOLE 5

MILE 734.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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'								
4					CL	Clay - Silty Sandy Pebbles Low-Med. Plastic		Low Ice					Damp Wet	
8													Damp	
12					Cl		F	VX					Damp	
16													Damp	
20													Damp	
24													Damp Damp	
28						Clay - Silty - Sandy - Pebbles							Damp	
32					CL	Low-Med. Plastic		Low Ice					Damp	
36					Cl		F	VX					Damp	
40														
44						45'							Damp	
						BOTTOM OF HOLE 45'								
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

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BORROW PIT 186

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 556+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Tamarack	ELEV.

TEST HOLE 6

MILE 734.8

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
2					Pt	PEAT 1'							Damp	
4						Clay - Silty		Low						
6						- Sandy							Moist	
8						- Pebbles		Ice						
10					CL	Low-Med. Plastic	F	VX					Damp	
12					Cl								Damp	
14													Damp	
16														
18														
20													Damp	
22														
24						BOTTOM OF HOLE 25'							Damp	
26														
28														

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 556+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Tamarack	ELEV.

TEST HOLE 7

MILE 734.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 1'								
2-4						Clay - Silty							Damp	
4-6						- Sandy							Wet	
6-8						- Pebbles								
8-10					CL	Low-Med. Plastic		Low					Damp	
10-12					Cl		F	Ice VX					Damp	
12-14														
14-16													Damp	
16-18														
18-20													Damp	
20-22														
22-24													Damp	
24-26						BOTTOM OF HOLE 25'								
26-28														

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
0 20 30 40 60 80 100 120 140 160 180+

B074

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BORROW PIT 186

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 556+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce - Tamarack | ELEV.

TEST HOLE 8

MILE 734 .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'		Low Ice
2						Clay - Silty		VX
4						- Sandy		Moderate Ice
6					CL	- Pebbles		Vc - Vr
8						Low-Med. Plastic		Low
10					Cl		F	
12								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
40 0 60 20 80 40 100 60 120 80 140 100 100+

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

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 556+00	OFFSET.	TEST HOLE 9
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce	ELEV.	MILE 734.8

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
0					Pt	PEAT 1'								
2						Clay - Silty							Damp	Hole in Bag
4						- Sandy								
6					CL	- Pebbles Low-Med. Plastic		Low					Damp	
8					Cl			Ice					Damp	
10							F							
12						Gravelly							Damp	
14													Damp	
16														
18														
20														
22														
24						Pebbles							Damp	
26						BOTTOM OF HOLE 25'								
28														

8074

DS-14-5-74 b

BORROW PIT 187

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 531+00	OFFSET.	TEST HOLE 1
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Tamarack	ELEV.	MILE 734.3

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
					Pt	PEAT 1'								
2						Clay - Silty							Damp	
4						- Sandy								
						- Pebbles		Low						
6					CL	Low-Med. Plastic							Damp	Hole in Bag
8								Ice						
							F						Damp	
10					Cl									
12													Damp	
14								VX						
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 80 100 120 140 100+

B074

DS-14-5-74 b

BORROW PIT 187

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 531+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Tamarack	ELEV.

TEST HOLE 2

MILE 734.3

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'			Damp
4					Sc	Sand - Silty Clayey Pebbles			
6						5' Clay - Silty		Low	Moist
8						- Sandy - Pebbles		Ice	Moist
10					CL	Low-Med. Plastic			
12					Cl		F	VX	Damp
14									Damp
16									
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

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

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

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BORROW PIT 187

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED 6/4/74 | AIRPHOTO NO. | CHAINAGE. 531+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce - Tamarack | ELEV.

TEST HOLE 3

MILE 734.3

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					Sc	Sand - Silty		
4						Clayey - Pebbles		Ice
6						5'		
8					CL	Clay - Silty		Vc - Vr
10						- Sandy		
12					Cl	- Pebbles	F.	
14						Low-Med. Plastic		Low
16								Ice
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 40 60 80 100 120 140 160+

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

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DS-14-5-74 b

BORROW PIT 187

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 531+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Good	VEGETATION. Spruce - Tamarack	ELEV.

TEST HOLE 4

MILE 734.3

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 Ice
2					Sc	Sand - Silty Clayey Gravelly		Vc - Vr
4						5'.		
6					CL Cl	Clay - Silty - Sandy - Pebbles Low-Med. Plastic	F	Low Ice
8								
10								
12								VX
14								
16								
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
0 20 30 40 60 80 100 120 140 160 180+

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

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BORROW PIT 187

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 531+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce - Tamarack | ELEV.

TEST HOLE 5

MILE 734.3

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 Ice
2					CL	Clay - Organic to 4' Pebbles		Vc - Vr
4						5'		
6					Sc	Sand - Silty Pebbles - Clayey 7'		Low
8						Clay - Silty - Sandy		
10						- Pebbles	F	Ice
12					CL	Low-Med. Plastic		
14								VX
16					Cl			
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
0 20 40 60 80 100 120 140 160+

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

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BORROW PIT 187

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED 6/4/74	AIRPHOTO NO.	CHAINAGE 531+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Tamarack	ELEV.

TEST HOLE 6

MILE 734.3

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'			
4						Clay - Silty Sandy Pebbles			4
						Low-Med. Plastic		Low	
8					CL		F	Ice	8
12					Cl			VX	12
16									16
20									20
24									24
						Clay - Silty - Sandy - Pebbles		Low	
28						Low-Med. Plastic		Ice	28
32					CL			VX	32
36					Cl		F		36
40									40
44						45'			44
48						BOTTOM OF HOLE 45'			48
52									52
56									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				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Damp	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Damp Damp	
				Damp	
					Hole in Bag
					Hole in Bag
					Hole in Bag

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED 6/4/74	AIRPHOTO NO.	CHAINAGE 531+00	OFFSET.
TECH. McINTOSH	RIG. MAYHEW #2	SURFACE DRAINAGE. Fair	VEGETATION. Spruce - Tamarack	ELEV.

TEST HOLE 7

MILE 734.3

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					Sc	Sand - Silty - Pebbles - Clayey							Damp	
4													Wet	
6								Low						
8						8'							Damp	
10						Clay - Silty - Sandy - Pebbles		Ice						
12					CL	Low-Med. Plastic	F						Damp	
14					Cl			VX						
16														
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
0 20 40 60 80 100 120 140 160 180 200+

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BORROW PIT 187

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED 6/4/74 | AIRPHOTO NO. | CHAINAGE 531+00 | OFFSET.

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

TEST HOLE 8

MILE 734.3

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						Clay - Silty		Ice
4						- Sandy		
6						- Pebbles		Vc - Vr
8					CL	Low-Med. Plastic		
10							F	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
40 0 | 60 20 | 80 40 | 100 60 | 120 80 | 140 100 | 100+

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

REMARKS: Hole in Bag

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BORROW PIT 187

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 531+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce Max: 4" | ELEV.

TEST HOLE 9

MILE 734.3

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					ML	Silty - Sandy Clayey								Hole in Bag
4						4'								Hole in Bag
6						Clay - Silty - Sandy - Pebbles		Low						
8								Ice					Wet	
10					CL	Low-Med. Plastic								
12							F						Damp	
14								VX						
16					Cl									Hole in Bag
18														
20														
22														
24						BOTTOM OF HOLE 25'								Hole in Bag
26														
28														

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

PLASTIC LIMIT — LIQUID LIMIT

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

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BORROW PIT 187

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED 6/4/74 | AIRPHOTO NO. | CHAINAGE 531+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce - Tamarack | ELEV.

TEST HOLE 10

MILE 734.3

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
2					Pt	PEAT 1.5'							Damp	
4						Clay - Silty								
6						- Sandy		Low						Hole in Bag
8						- Pebbles								
10					CL	Low-Med. Plastic		Ice					Damp	
12					Cl		F	VX					Damp	
14														
16													Damp	
18														
20														
22													Damp	
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+

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BORROW PIT 187

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 531+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce - Tamarack | ELEV.

TEST HOLE 11

MILE 734.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						Silt - Sandy		
4						Clayey		
6					ML			
8						7' Clay - Silty		Low
10						- Sandy		
12						- Pebbles	F	Ice
14					CL	Low-Med. Plastic		VX
16					Cl			
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

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

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

RELATIVE THAWED MOISTURE CONTENT

ALL BAGS DAMAGED - NO MOISTURE CONTENT

REMARKS

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BORROW PIT 187

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 531+00 | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Good | VEGETATION. Spruce Max: 7" | ELEV.

TEST HOLE 12

MILE 734.3

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 1.5'								
2						Clay - Silty								
4						- Sandy								
6						Low-Med. Plast.		Low						
8					CL	- Pebbles		Ice						Hole in Bag
10														
12					Cl		F	VX						
14														
16														
18														
20														
22														
24						Sandy								Hole in Bag
26						BOTTOM OF HOLE 25'								
28														

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

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BORROW PIT 188

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 451+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE 732.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
					Pt	PEAT ½'		Low	
2						CLAY -Silty Sandy Pebbles			2
4									4
6					CL	Low-med. plastic			6
8					CI		F	Vx	8
10									10
12									12
14								Ice	14
						15'			
16						SHALE -Soft-med. hard		Frozen	16
18									18
20								Nbn	20
22									22
24						Soft-hard			24
						25'			
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 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	
				Moist	
				Damp	
				Damp	
				Damp	

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BORROW PIT 188

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 451+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 732.8

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 — ½'							Moist
4					CL	CLAY -Silty Sandy Pebbles		Low					Wet
8					CI		F						Moist
12								Ice					Moist
16													Damp
20						20'		Vx					Damp
24						SHALE -Soft-med. hard		Frozen					Humid
28													Humid
32								Nbn					
36													Humid
40													Humid
44						45'							Humid
48						BOTTOM OF HOLE - 45'							
52													
56													

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BORROW PIT 188

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 451+00	OFFSET.	TEST HOLE 3
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 732.8

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
0					Pt	PEAT ½'								
2						CLAY -Silty Sandy Low plastic		Low					Moist	
4													Moist	
6					CL			Ice					Moist	
8							F							
10													Moist	
12								Vx						
14					CL	Low-med. plastic Pebbles							Moist	
16					CI									
18														
20						Soft-hard Shale fragments							Moist	
22													Damp	
23'														
24						SHALE - Soft								
25'														
26						BOTTOM OF HOLE - 25'								
28														

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BORROW PIT 188

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 451+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 732.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT ½'		
2						CLAY		Low
						-Silty		
						Sandy		
4					CL	Pebbles		
						Low-med. plastic		
6					CI			
								Ice
8						50% samll rock chips	F	
10								
12						Pebbles		
14								
						15'		
16						SHALE		
						-Soft		
18						Silty Clay?		Vx
20								
22								
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
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	
				Damp	
				Moist	
				Moist	
				Moist	
				Moist	

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BORROW PIT 188

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 451+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 5

MILE 732.8

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
0					Pt	PEAT ½'		Vx						
2					CL	CLAY -Silty Sandy Pebbles Low plastic		Low					Moist	
4													Moist	
6								To						
8													Moist	
10							F	Nil						
12								Ice					Moist	
14														
16								Nbn					Moist	
18														
19'														
20						SHALE -Soft-med. hard		Frozen					Humid	
22													Humid	
24								Nbn						
25'														
26						BOTTOM OF HOLE - 25'								
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 451+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 6

MILE 732.8

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

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 ½'									
2						CLAY -Silty Sandy Pebbles Low-med. plastic		Low	2					Moist	
4					CL				4					Moist	
6									6						
8					CI				8					Moist	
10							F		10					Moist	
12								Vx	12						
14									14					Moist	
16									16						
18									18						
20						20'		Ice	20					Damp	
22						SHALE -Soft		Frozen	22					Damp	
24								Nbn	24						
25						25'			25						
26						BOTTOM OF HOLE - 25'			26						
28									28						

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

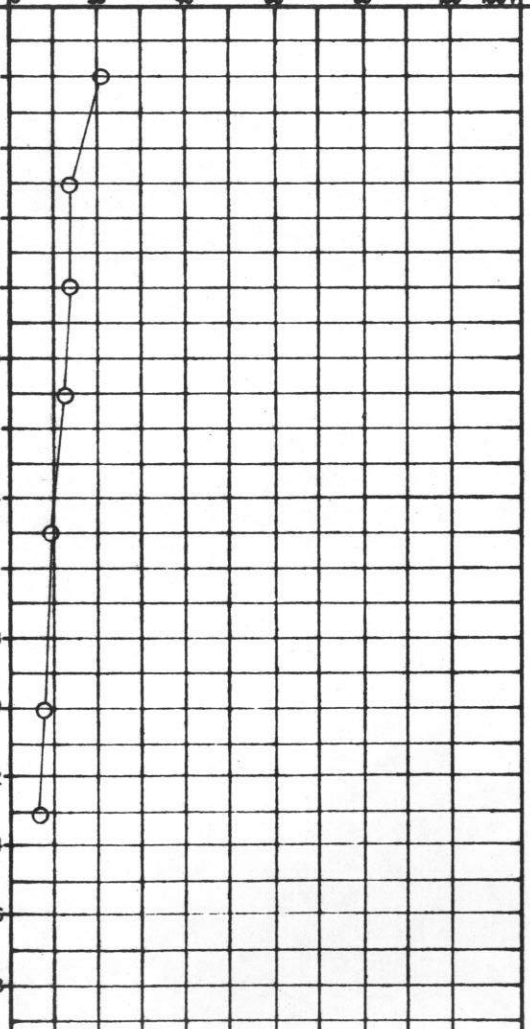
FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 451+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 7

MILE 732.8

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

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Sat.	
4					Wet	
8					Moist	
10					Moist	
14					Moist	
20					Damp	
22					Damp	

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 451+00	OFFSET.	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 8
					MILE 732.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT								
						1'								
2						CLAY							Moist	
4						-Silty		Low						
6					CL	Sandy							Moist	
8						Pebbles								
10						Low-med. plastic							Moist	
12					CI		F	Ice						
14													Moist	
16								Vx						
18													Damp	
20						20'								
22						SHALE							Damp	
24						-Soft								
26						25'							Damp	
28						BOTTOM OF HOLE - 25'								

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

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 451+00	OFFSET.	
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	

TEST HOLE 9

MILE 732.8

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
					Pt	PEAT ½'								
2						CLAY							Moist	
4						-Silty								
						Sandy								
						Pebbles								
6					CL	Low-med. plastic		Low					Moist	
8					CI								Moist	
10							F						Moist	
12								Vx						
14													Damp	
16														
18								Ice						
20						20'							Damp	
22						SHALE		Frozen						
						-Soft							Damp	
24								Nbn						
						25'								
26						BOTTOM OF HOLE - 25'								
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 451+00	OFFSET.	TEST HOLE 10
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 732.8

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	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT ½'									
2						CLAY		Vx	2					Moist	
						-Silty									
						Sandy									
4						Pebbles			4						
					CL	Low-med. plastic		Low						Wet	
6									6						
					CI										
8								Ice	8					Moist	
							F								
10									10					Moist	
								To							
12									12						
14									14						
								Nil						Damp	
16									16						
18									18						
								Ice							
20									20					Damp	
22						22'		Nbn	22						
						SHALE								Damp	
24						-Soft			24						
						25'									
26						BOTTOM OF HOLE - 25'			26						
28									28						

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 427+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 1

MILE 732.4

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
0–2					Pt	PEAT							Moist	
2–15					CL CI	CLAY -Silty Sandy Pebbles Low-med. plastic	F	Low Ice Vx					Moist Moist Moist	
15–25						SHALE -Soft Soft-med. hard		Nil Ice Nbn					Damp Damp Damp	
25						BOTTOM OF HOLE - 25'								

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

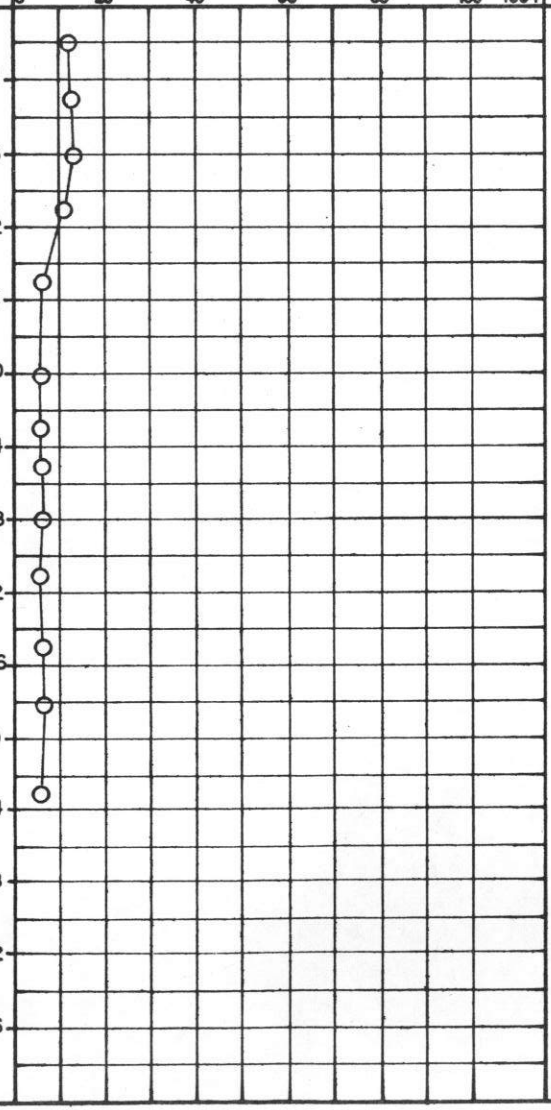
FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 427+00	OFFSET.	
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	TEST HOLE 2
					MILE 732.4

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	Low
4					CL CI	CLAY -Silty Sandy Pebbles		To
8								
12								Nil
16						— 15'		
20						SHALE -Soft Soft-med. hard		Ice
24								
28								
32								
36								Nbn
40								
44						— 45'		
48						BOTTOM OF HOLE - 45'		
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	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				Moist	
				Moist	
				Damp	
				Damp	
				Damp	
				Humid	
				Humid	
				Humid	
				Humid	
				Humid	
				Humid	
				Humid	

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 427+00	OFFSET.	TEST HOLE 3
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 732.4

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 — 1'								
2						CLAY -Silty Sandy Pebbles Low-med. plastic							Moist	
4													Moist	
6					CL			Low						
8													Damp	
10					CI		F						Moist	
12								Ice						
14													Damp	
16														
18								Vx						
20													Damp	
22													Damp	
24														
25						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 427+00 | OFFSET.

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

TEST HOLE 4

MILE 732.4

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 -Silty Sandy Pebbles Low-med. plastic		Low
4								
6					CL			Ice
8					CI	Gravelly	F	
10								Vx
12						Pebbles		
14						— 14'		
16						SHALE -Soft		Nil
18								Ice
20								
22								Nbn
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
40 60 80 100 120 140
0 20 40 60 80 100+

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

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 427+00	OFFSET.	TEST HOLE 5
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 732.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 2'		
4					CL	CLAY -Silty Sandy Low-med. plastic		Low
6								Ice
8						Pebbles		
10							F	
12					CI			Vx
14						— 15'		
16						SHALE -Soft		Nil
18								Ice
20								Nbn
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
40 60 80 100 120 140 160 180+

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

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 427+00	OFFSET.	TEST HOLE 6
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 732.4

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		Low
4						-Silty Sandy Pebbles Low-med. plastic		
6					CL			Ice
8								
10					CI		F	
12								Vx
14						— 15'		
16						SHALE -Soft		Nil
18								
20								Ice
22								Nbn
24								
26						— 25' BOTTOM OF HOLE - 25'		
28								

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

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

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

REMARKS

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FIELD ENG. N. BURGESS | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 427+00 | OFFSET.

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

TEST HOLE 7

MILE 732.4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2					CL	CLAY -Silty Sandy Pebbles Gravelly 5'-7' Low-med. plastic		Low Ice
4								
6					CI		F	
8						— 8'		Vx
10						SHALE -Soft		Nil
12								
14								
16						Soft-med. hard		Ice
18								
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 60 80 100 120 140 160 180+

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

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DRILL HOLE REPORT

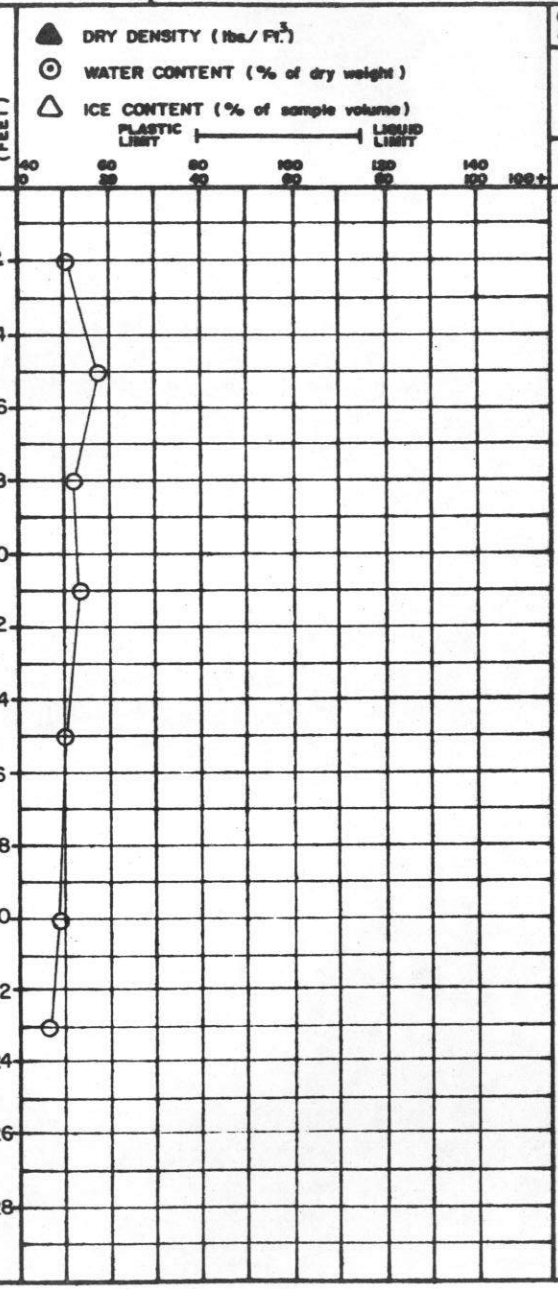
SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 427+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 8

MILE 732.4

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						CLAY		LOW
						-Silty		
4						Sandy		
						Pebbles		
6					CL			ICE
						Low-med. plastic		
8					CI		F	
								Vx
10								
						11'		
12						SHALE		
						-Soft		
14								
16								Frozen
18								
20								Nbn
22								
24								
						25'		
26						BOTTOM OF HOLE - 25'		
28								



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

REMARKS

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SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 427+00 | OFFSET.

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

TEST HOLE 9

MILE 732.4

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 -Silty Sandy Pebbles Low plastic		Low Ice Vx
8'							F	
10						SHALE -Soft		Nil
18								Ice
20						Soft-med. hard		
22								Nbn
24						Soft - Hard		
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

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

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BORROW PIT 189

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 427+00	OFFSET.	TEST HOLE 10
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 732.4

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

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		Low					Moist	
4						-Silty Sandy Pebbles Low plastic							Moist	
6					CL	Gravelly		Ice						
8						Pebbles	F						Moist	
10								Vx					Moist	
12														
14													Humid	
15'														
16						SHALE -Soft		Nil						
18														
20								Ice					Humid	
22								Nbn					Humid	
24														
25'														
26						BOTTOM OF HOLE - 25'									
28														

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BORROW PIT 189

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 427+00	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 11

MILE 732.4

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
0					Pt	PEAT — 1'								
2					CL	CLAY -Silty Sandy Low plastic Pebbles	F	Low					Moist	
4													Moist	
6								To						
8													Moist	
10													Moist	
12								Nil						
14						— 15'							Damp	
16						SHALE -Soft								
18								Ice						
20						Soft-med. hard							Damp	
22													Damp	
24						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

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

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BORROW PIT 190

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECT. -D-

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 867+00 | OFFSET.

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

TEST HOLE 1

MILE .740.8

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		Moderate
2						Clay - Silty		Ice
4						- Sandy		
6						- Pebbles		Vc - Vr
8					CL	Low-Med. Plastic		
10					Cl		F.	
12								Low
14								Ice
16								
18								VX
20								
22						23'		
24					Sc	Sand - Silty Clayey		
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 60 80 100 120 140 160+

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

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DS-14-5-74 b

BORROW PIT 190

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 867+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 740.8

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
					Pt	PEAT .5'								
2						Clay - Silty							Damp	
4						- Sandy								
6					CL	- Pebbles		Low					Wet	
8						Low-Med. Plastic								
10					Cl			Ice					Moist	
12							F						Damp	
14								VX						
16													Damp	
18														
20													Damp	
22														
24						BOTTOM OF HOLE 25'							Damp	
26														
28														

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BORROW PIT 190

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

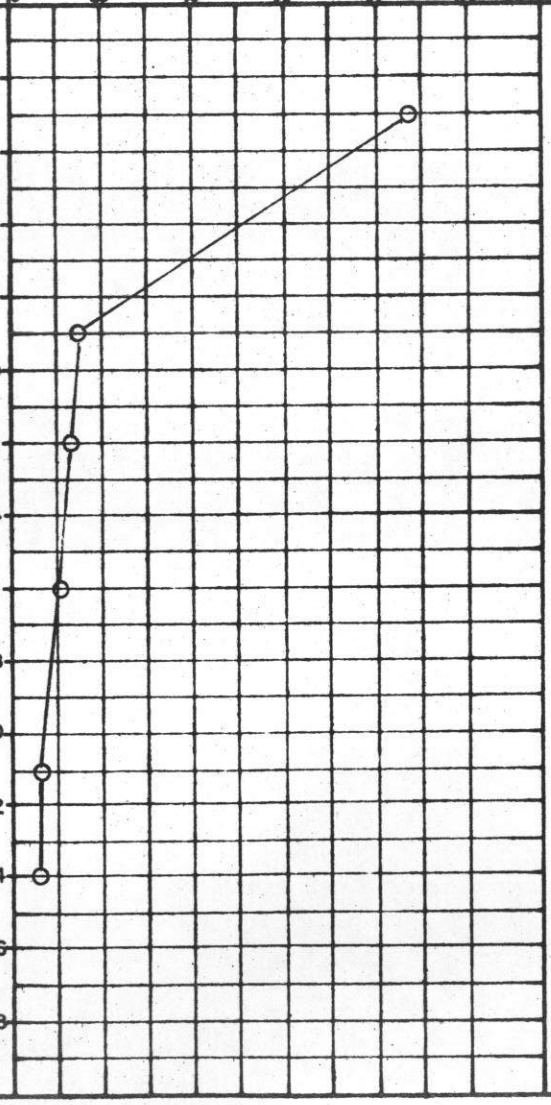
FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 867+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 3

MILE 740.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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						
4						4'		Vc - Vr					Free Water	
6					CL	Clay - Silty Sandy Pebbles								
8					Cl	Low-Med. Plastic							Moist	
10						11'		Low Ice						
12						Sand - Silty Fine - Med. Grained	F						Moist	
14					SP									
16								VX					Moist	
18														
20						20'								
22					CL	Clay - Silty - Sandy Gravelly							Damp	
24					Cl	Low-Med. Plastic							Damp	
						BOTTOM OF HOLE 25'								
26														
28														

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



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BORROW PIT 190

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 867+00 | OFFSET.

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

TEST HOLE 4

MILE 740.8

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 - Silty		
						- Sandy		
4					CL	- Pebbles		
6						Low-Med. Plastic		
8					Cl		F	Low Ice
10								
12								Vx
14								
16								
18								
20						20'		
22					Sc	Sand - Silty Clayey		
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 80 100 120 140 160 180+

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

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 867+00 | OFFSET.

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

TEST HOLE 5

MILE 740.8

REMARKS

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT 1'	F	Moderate Ice					
2						Clay - Silty							Damp
4					CL	- Sandy - Pebbles		Vc - Vr					
6						Low-Med. Plastic							Sat.
8					Cl								Damp
10						11'		Low					
12						Sand - Silty - Clayey							Damp
14					Sc	14'		Ice					
16						Clay - Silty							Damp
18					CL	- Sandy - Pebbles		VX					
20						Low-Med. Plastic							Damp
22					Cl								
24						BOTTOM OF HOLE 25'							Damp
26													
28													

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BORROW PIT 190

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 867+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 6

MILE 740.8

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
0					Pt	PEAT .5'			
2						Sand - Silty Clayey Pebbles			Damp
4						4'			
6						Clay - Silty - Sandy - Pebbles		Low	Wet
8					CL	Low-Med. Plastic		Ice	Damp
10							F		
12					Cl			VX	Damp
14									
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

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

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

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BORROW PIT 190

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG.	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 867+00	OFFSET.
TECH.	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 7

MILE 740.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		Moderate
2						Clay - Silty		
						- Sandy		Ice
4					CL	- Pebbles		
						Low-Med. Plastic		Vc - Vr
6					Cl			
8								
10						11'		Low
						Sand - Silty		
12						Clayey		Ice
						Pebbles		
14					Sc		F	
16								VX
18								
20								
22						23'		
24					Cl	Clay - Silty Sandy Pebbles		
						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

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

PLASTIC LIMIT — LIQUID LIMIT

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

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

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BORROW PIT 190

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 867+00 | OFFSET.

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

TEST HOLE 8

MILE 740.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'	F	Moderate Ice
2						Clay - Silty		
4						- Sandy		
6						- Pebbles		Vc - Vr
8					CL	Low-Med. Plastic		
10					Cl	11'		Low Ice
12						Sand - Silty		
14					SM	Fine-Medium		
16						Clayey		VX
18					Sc			
20								
22						23'		
24					CL Cl	Clay - Silty Sandy Pebbles		
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	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
				Wet
				Sat.
				Damp
				Damp
				Damp
				Damp
				Damp

REMARKS

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BORROW PIT 190

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 867+00	OFFSET.	TEST HOLE 9
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 740.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		Moderate
2						Clay - Silty		
4						- Sandy		Ice
6					CL	- Pebbles Low-Med. Plastic		Vc - Vr
8					Cl			
10							F.	
12								Low
14						15'		Ice
16					SM	Sand - Silty		
18						18'		
20						Clay - Silty		
22					CL	- Sandy - Pebbles Low-Med. Plastic		VX
24					Cl	Gravelly		
26						BOTTOM OF HOLE 25'		
28								

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

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160+

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

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BORROW PIT 190

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 867+00 | OFFSET.

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

TEST HOLE 10

MILE 740.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'								
2						Clay - Silty							Damp	
4						- Sandy								
6					CL	- Pebbles Low-Med. Plastic		Low					Wet	
8													Moist	
10					Cl		F	Ice						
12													Damp	
14								VX						
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
0 20 40 60 80 100 120 140 160+

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BOTTOM PIT 190

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 5/4/74	AIRPHOTO NO.	CHAINAGE. 867+00	OFFSET.	TEST HOLE 11
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 740.8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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								
					CL	- Pebbles								
6						Low-Med. Plastic		Low					Wet	
8					Cl								Moist	
10							F	Ice						
12						Gravelly							Damp	
14								VX						
16													Damp	
18														
20						20'								
						Sand - Silty							Damp	
22					Sc	- Clayey								
						- Pebbles							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 80 100 120 140 160 180 200+

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BORROW PIT 190

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

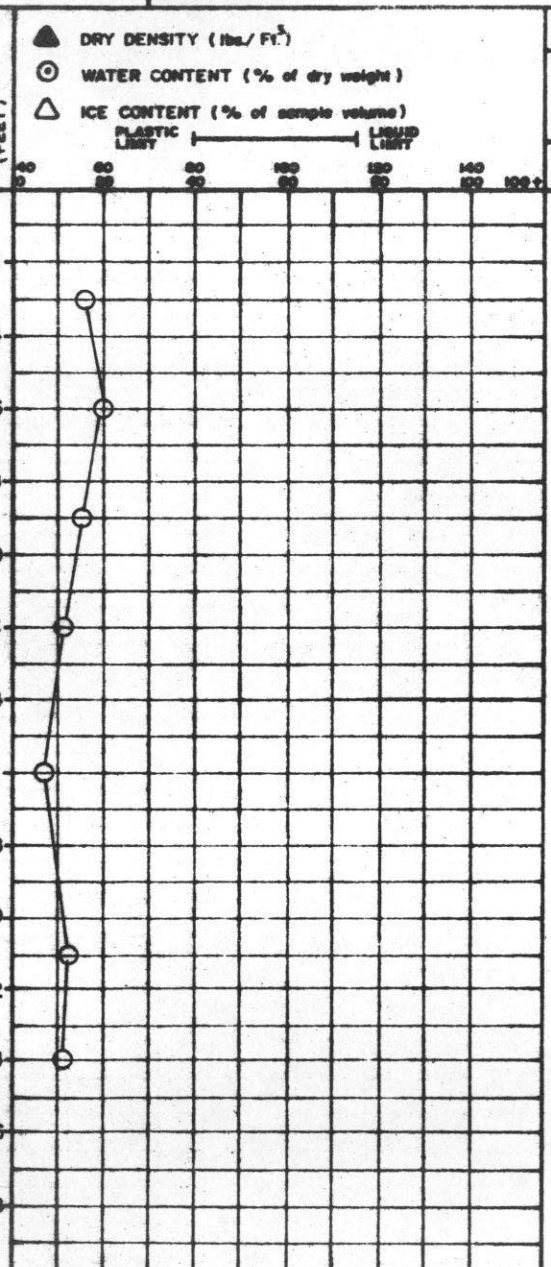
FIELD ENG. D. COOK | DATE DRILLED. 5/4/74 | AIRPHOTO NO. | CHAINAGE. 867+00 | OFFSET.

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

TEST HOLE 12

MILE 740.8

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		
4								Vc - Vr
6					CL	Low-Med. Plastic		
8					Cl			
10							F.	
12								Low
14								
16								Ice
18								
20								VX
						20'		
22					SM	Sand - Silty Fine - Medium		
24						BOTTOM OF HOLE 25'		
26								
28								



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

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BORROW PIT 191

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 889+00 | OFFSET.

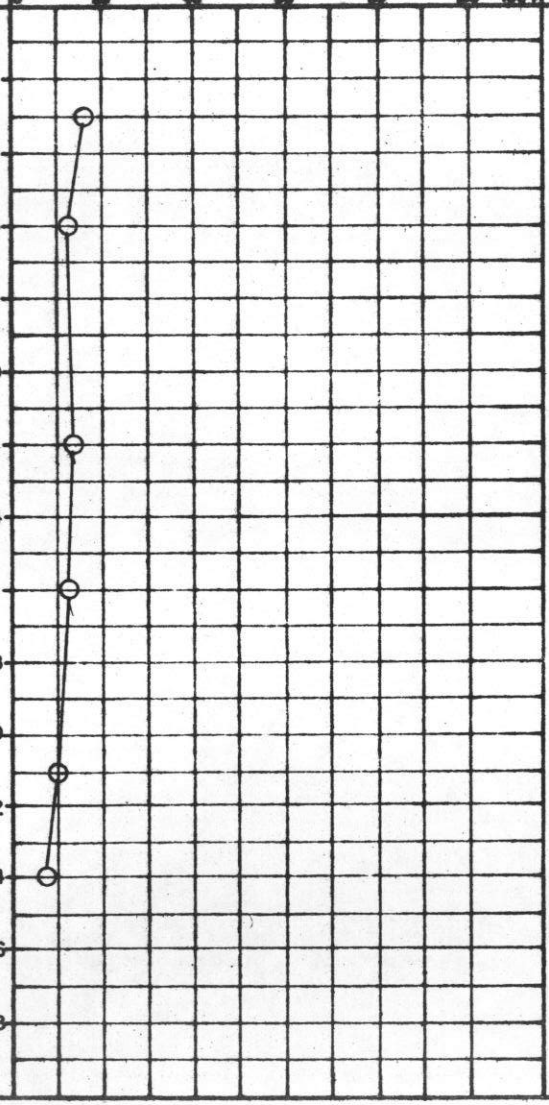
TECH. JOHNSON | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 1

MILE 741.3

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		
4					Cl	Low-Med. Plastic 4'		
						Sand - Silty		
6					Sc	- Clayey		Low
						8'		Ice
8						Clay - Silty		
					CL	- Sandy		
10						- Pebbles	F	
12					Cl	Low-Med. Plastic		VX
						15'		
14						Sand - Silty		
					Sc	- Clayey		
16						18'		
18						Clay - Silty		
					CL	- Sandy		
20						- Pebbles		
					Cl			
22								
						Low-Med. Plastic		
24						BOTTOM OF HOLE 25'		
26								
28								

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



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

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DS-14-5-74 b

BORROW PIT 191

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 889+00	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE 741.3

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'		
						Clay - Silty Sandy Pebbles		
4					CL	Low Plastic 5'		
6					Sc	Sand - Silty Clayey		Low
8								Ice
10						11'	F	
12						Clay - Silty		
					CL	- Sandy - Pebbles		VX
14						Low-Med. Plastic		
16					Cl			
18								
20						20'		
						Sand - Clayey Silty		
22					Sc	Pebbles		
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 80 100 120 140 160+

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

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 889+00	OFFSET.	TEST HOLE 3
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 741.3

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
					Pt	PEAT .5'								
2					CL	Clay - Silty Sandy - Pebbles Low Plastic 4'							Wet	
4														
6					Sc	Sand - Clayey - Silty - Pebbles 11'		Low					Wet	
8													Moist	
10							F	Ice						
12					CL	Clay - Silty Sandy - Pebbles							Damp	
14					Cl	Low-Med. Plastic 15'		VX					Damp	
16					Sc	Sand - Clayey Silty 18'								
18					CL	Clay - Silty Sandy Pebbles								
20													Damp	
22					Cl	Low-Med. Plastic								
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 80 100 120 140 160 180+

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO. 889+00	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 4

MILE 741.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT .5'				
2						Clay - Silty			Damp	
4						- Sandy				
6					CL	- Pebbles Low-Med. Plastic		Low	Damp	
8					Cl			Ice	Damp	
10							F		Damp	
12								VX		
14										
16									Damp	
18										
20						Gravelly			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 60 80 100 120 140 160 180+

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

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BORROW PIT 191

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO. 889+00	CHAINAGE.	OFFSET.	TEST HOLE 5
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 741.3

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
					Pt	PEAT .5'								
2					CL	Clay - Silty							Damp	
						- Sandy								
4						- Pebbles		Low						
6						Low Plastic							Wet	
						7'								
8					Sc	Sand - Clayey		Ice					Damp	
						Silty-Pebbles	F							
10													Damp	
12														
14						14'		VX						
						Clay - Silty							Damp	
16					CL	- Sandy								
						- Pebbles								
18					Cl	Low-Med. Plastic								
						19'								
20						Sand - Clayey								
					Sc	Silty							Damp	
22						Pebbles								
24						Boulder 24'							Humid	
						BOTTOM OF HOLE 24'								
26														
28														

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

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BORROW PIT 191

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 889+00 | OFFSET.

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

TEST HOLE 6

MILE 741.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2					CL	Clay - Silty Sandy Pebbles		Moderate Ice
4					Cl	Low-Med. Plastic		
6						7'		Vc - Vr
8						Sand - Silty Clayey Pebbles		
10					Sc		F	Low
12								
14						14'		
16					CL	Clay - Silty Sandy Pebbles Low-Med. Plastic		Ice
18					Cl			VX
20						19'		
22					Sc	Sand - Silty Fine - Medium Clayey Pebbles		
24						BOTTOM OF HOLE 25'		
26								
28								

DEPTH (FEET)

▲ DRY DENSITY (lbs./ Ft.^{3})

⊙ WATER CONTENT (% of dry weight)

△ ICE CONTENT (% of sample volume)

PLASTIC LIMIT — LIQUID LIMIT

0 20 40 60 80 100 120 140 160+

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

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 889+00 | OFFSET.

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

TEST HOLE 7

MILE 741.3

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
					Pt	PEAT .5'		Moderate						
2						Clay - Silty Sandy		Ice						Hole in Bag
4					CL CI	Pebbles Low-Med. Plastic								Hole in Bag
6														
8						8' Sand - Silty							Damp	
10					Sc	Clayey Pebbles								
12							F	Low					Damp	
14					SP	Fine - Medium		Ice					Moist	
16														
18								VX						
20					Sc	Clayey							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
0 20 40 60 80 100 120 140 160+

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 889+00 | OFFSET.

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

TEST HOLE 8

MILE 741.3

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					CL	Clay - Silty - Sandy - Pebbles		Ice
4					Cl	Low-Med. Plastic		VC - VR
6								
8						8'		
10						Sand - Silty - Clayey - Pebbles	F	VX
12								Low
14					Sc			Ice
16								
18								
20								
22								
24					CL	Clay - Silty Sandy Pebbles		
26					Cl	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						Hole in Bag
6						
8					Moist	
10						
12					Moist	
14						
16					Moist	
18						
20						
22					Damp	
24					Damp	
26						
28						

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 889+00 | OFFSET.

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

TEST HOLE 9

MILE 741.3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		Moderate
						Clay - Silty		
2					CL	- Sandy		Ice
4					Cl	- Pebbles Low-Med. Plastic		VC - Vr
6						7'		
						Sand - Silty		
8						- Clayey		
10					Sc	Pebbles	F	Low
12								Ice
14								
16								VX
18								
20						20'		
						Clay - Silty Sandy Pebbles		
22					CL			
24					Cl	Low-Med. Plastic		
						BOTTOM OF HOLE 25'		
26								
28								

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

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

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 6/4/74	AIRPHOTO NO.	CHAINAGE. 889+00	OFFSET.	TEST HOLE 10
TECH. JOHNSON	RIG. MAYHEW #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE 741.3

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'		Moderate						
2						Clay - Silty							Damp	
4					CL	Sandy Pebbles		To						
6					Cl	Low-Med. Plastic		Low						Hole in Bag
8						7' Sand - Silty Clayey								
10						Pebbles	F	Ice						Hole in Bag
12					Sc									Hole in Bag
14								Vc - Vr						
16													Moist	
18								VX						
20													Damp	
22						23'								
24					CL	Clay - Silty Sandy Pebbles							Damp	
26						BOTTON OF HOLE 25'								
28														

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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 6/4/74 | AIRPHOTO NO. | CHAINAGE. 889+00 | OFFSET.

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

TEST HOLE 11

MILE 741.3

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
					Pt	PEAT ½'								
2					CL	clay - Silty Sandy Pebbles Low Plastic		Low Ice					Damp	Hole in Bag Hole in Bag
10						10'								
12					Sc	SAND - SILTY - Clayey - Pebbles	F	VX					Damp	
16													Damp	
18						18'								
20					CL	Clay - Silty - Sandy - Pebbles							Damp	
22					Cl	Low-Med. Plastic								
24						BOTTOM OF HOLE 25'								
26														
28														

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

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BORROW PIT 192

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG.N. BURGESS | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 1 | MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1½'		High Ice Vs
2					GC CL	CLAY -Silty sandy Gravel to gravelly 1.5'-4' Pebbles Low plastic		
4								
6								Moderate Ice
8								
10						— 11'		
12					SC	SAND -Silty Clayey	F	Vc - Vr
14								
16								
18						— 19'		
20					CL CI	CLAY -Sandy Silty Pebbles Low-med. plastic		Low Ice 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	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
Free Water
Damp
Damp
Moist
Moist
Damp
Damp

REMARKS

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BORROW PIT 192

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 2

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2						CLAY -Silty Sandy Pebbles Low plastic		Moderate Ice
8						— 8'		
10					SC SM	SAND -Clayey Silty	F	Vc - Vr
18						— 19'		
20					CI	CLAY -Silty Sandy Pebbles Med. plastic		Low Ice
24						— 25'		Vx
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 60 80 100 120 140 160+
20 30 40 50 60 80 100

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
2					Wet
6					Moist
8					Moist
12					Damp
16					Wet
20					Humid
24					Humid

REMARKS

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 3

MILE

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

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

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. 6" | 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
0					Pt	PEAT		
						1½'		
2						CLAY -Silty Sandy Pebbles Low plastic		
4								
6					CL			
8								Low
10							F	
						11'		
12					SM	SAND -Silty		Ice
14						14'		
16						CLAY -Silty Sandy Pebbles Med. plastic		Vx
18								
20					CI			
22								
24						Sandstone frags.		
						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 %		
				Moist	
				Moist	
				Damp	
				Wet	
				Damp	
				Damp	
				Damp	

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DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 5"	ELEV.

TEST HOLE 5

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — 1'								
2					CL CI	CLAY -Silty Sandy Pebbles Low-med. plastic	F	Low Ice					Hole In Bag	
4													Damp	
6														
8													Hole In Bag	
10														
12													Hole In Bag	
13'														
14						SHALE -Silty Soft		Frozen Nbn						
16													Humid	
18														
20														
22													Humid	
24													Humid	
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

DS-14-5-74 b

BORROW PIT 192

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. 6" | 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								
						1.5'								
2					SC	SAND -Clayey silty Pebbles		Low					Hole In Bag	
4						4'								
6					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Ice					Hole In Bag	
8													Hole In Bag	
10					CI			Vx						
12							F						Hole In Bag	
14						14'								
16						SHALE -Silty Soft		Frozen					Damp	
18														
20								Nbn						
22													Hole In Bag	
24													Humid	
						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+

DS-14-5-74 b

BORROW PIT 192

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 7/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 7
TECH. McINTOSH	RIG. MAYHEW - #2	SURFACE DRAINAGE. FAIR	VEGETATION. SPRUCE MAX. 4"	ELEV.	MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT								
1'														
2					SM	SAND -Silty Pebbles							Damp	
4'														
6						CLAY -Silty Sandy-pebbles		Low					Hole In Bag	
8'														
10					SM	SAND -Silty Fine		Ice					Hole In Bag	
11'														
12					CL	CLAY -Sandy Silty Pebbles Low plastic	F						Hole In Bag	
16								Vx					Damp	
18'														
20						SHALE -Soft Silty							Damp	
22														
24													Damp	
25'														
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 192

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

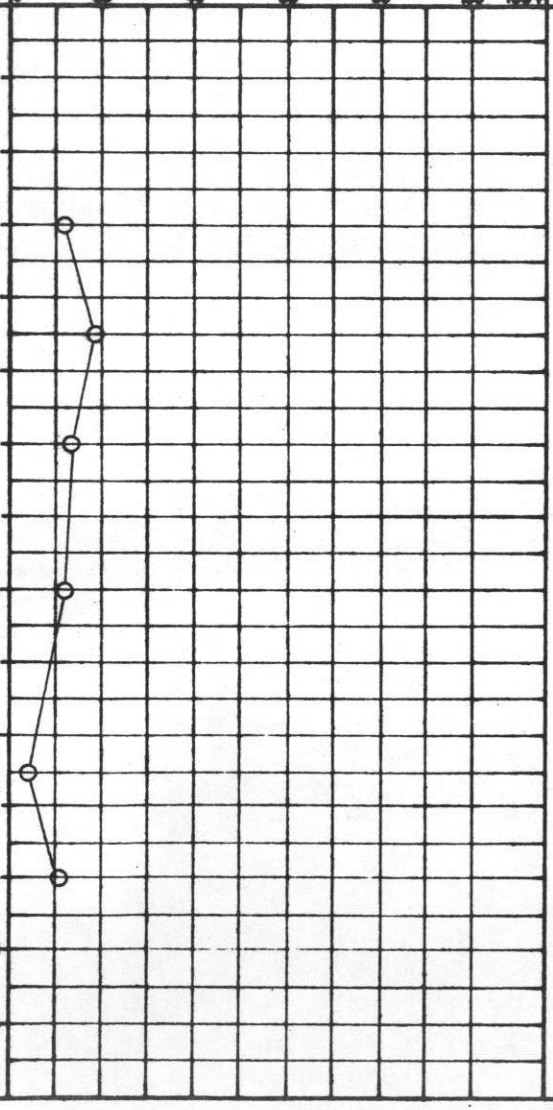
TECH. McINTOSH | RIG. MAYHEW - #2 | SURFACE DRAINAGE. FAIR | VEGETATION. SPRUCE MAX. 6" | ELEV.

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		Moderate
						1.5'		
2						CLAY		Ice
4						-Sandy		
						Silty		
6						Pebbles		Vc - Vr
						Low plastic		
8					CL			
10								
								Low
12							F	
14								Ice
16								
								Vx
18								
						19'		
20						SHALE		Frozen
						-Silty		
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
0 20 40 60 80 100 120 140 160+



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

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BORROW PIT 192

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 9

MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT — 1'								
2					CL	CLAY -Silty Sandy Pebbles Low-med. plastic		Low					Damp	
4														
6													Hole In Bag	
8					CI	— 8'								
10					SM	SILT-SAND MIXTURE -Clayey	F	Ice					Moist	
12													Moist	
14								Vx						
16					ML								Damp	
18														
20						— 20'								
22					CI	CLAY -Sandy silty Pebbles Med. plastic							Hole In Bag	
24													Damp	
						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 193

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 1 | MILE

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					SM	Sand - Silty - Pebbles								Hole in Bag
4						4'							Wet	
6					CL	Clay - Silty Sandy Pebbles Low-Med. Plastic		Low					Damp	
8								Ice						
10					Cl								Damp	
12														
14							F	VX						
16													Damp	
18														
20													Damp	
22														
24						BOTTOM OF HOLE 25'							Damp	
26														
28														

B074

DS-14-5-74 b

BORROW PIT 193

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce - Tamarack | ELEV.

TEST HOLE 2

MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 1'								
						Clay - silty								
						Sandy								Hole in Bag
						Pebbles								
						Low -Med. Plastic							Damp	
					CL			Low					Damp	
							F	Ice						
													Damp	
								VX						
					Cl								Damp	
													Damp	
						BOTTOM OF HOLE 25'								

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BORROW PIT 193

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. Fair | VEGETATION. Spruce - Tamarack | ELEV.

TEST HOLE 3

MILE

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	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT 1'			0						
2						Clay - Silty			2					Damp	
4						- Sandy			4					Wet	
6						- Pebbles		Low	6						
8					CL	Low Plastic			8					Damp	
10							F	Ice	10						
12									12					Damp	
14								VX	14						
16									16					Damp	
18									18						
20									20						
22									22					Damp	
24						BOTTOM OF HOLE 25'			24					Damp	
26									26						
28									28						

B074

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

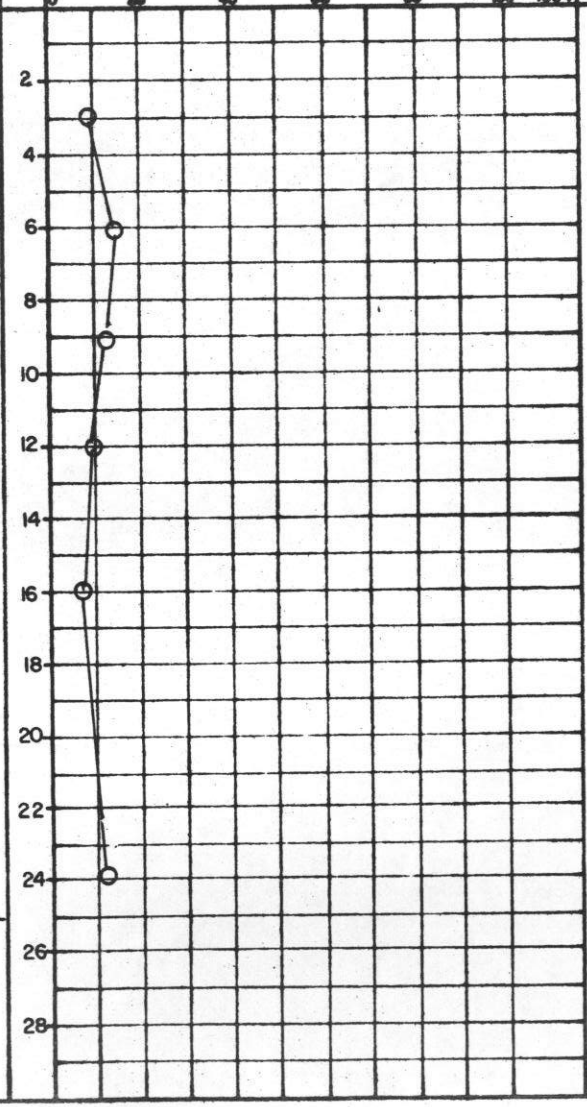
TECH. McINTOSH | RIG. MAYHEW #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 4

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1'		
4						Clay - Silty		
6						Sandy		
8						Pebbles		
10						Low Plastic	F	Low
12					CL			Ice
14								VX
16								
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



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

REMARKS

B074

DS-14-5-74 b

BORROW PIT 194

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 1

MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 1'								
2						Sand - Silty							Damp	
4						Clayey								
6						Fine - Med. Grained		Moderate					Wet	
8								Ice					Damp	
10					Sc		F							Hole in Bag
12														
14								Vc - Vr						
16													DAMP	
18					SM									
20													Damp	
22														
24						BOTTOM OF HOLE 25'							Wet	
26														
28														

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DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 7/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 2
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						Clay - Silty		
4						Sandy Pebbles		
6						5' Sand - Silty Fine - Medium		Low
8								To
10					Sp		F	Moderate
12								
14								Ice
16								
18								VX
20								Vc - Vr
22								
24						BOTTOM OF HOLE 25'		
26								
28								

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

GRAIN-SIZE ANALYSIS				RELATIVE THAWED MOISTURE CONTENT	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %		
				ALL BAGS DAMAGED - NO MOISTURE CONTENT	

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BORROW Pit 194

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

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

TECH. WEBER | RIG. MAYHEW # | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 3

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 1'								
2						Sand - Silty							Damp	
						Fine - Medium								
4					SM			Moderate					Wet	
6								To						
8													Wet	
10								Low						
													Wet	
12							F							
14								Ice						
					SP	Med. Fine								
16								Vc - Vr						Hole in Bag
18														
20								VX					Damp	
22					SM	Silty								
24													Damp	
						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

DS-14-5-74 b

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 4 | MILE | REMARKS

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT 1'							
2					SC	Sand - Silty Clayey							Damp
4								Moderate					Wet
6													
8						Silty		Ice					Wet
10					SP	Fine-Medium	F						
12								Vc - Vr					Damp
14													Wet
16													
18													
20													Wet
22					Sc	Clayey							
24						BOTTOM OF HOLE 25'							Wet
26													
28													

BORROW PIT 194

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

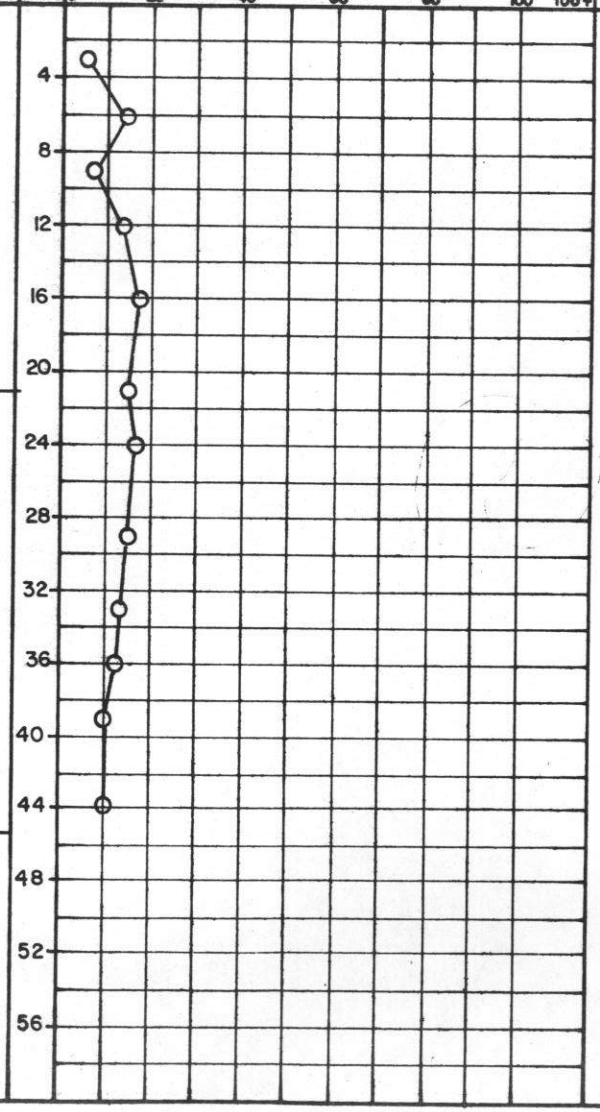
TEST HOLE 5

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT 1'			
4						Sand - Silty Fine - Medium		Moderate Ice	Damp
									Wet
8					SM		F	Vc - Vr	Moist
12									Damp
16									Sat.
20								Low Ice VX	Damp
24									Damp
28					SM	Sand - Silty Fine - Medium		Low Ice	Damp
32						32'			
						Clay - Silty Sandy Low Plastic	F	Ice	Damp
36									Damp
					CL	Pebbles		VX	
40									Damp
44						45'			Damp
						BOTTOM OF HOLE 45'			
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	CLAY %	SILT %	SAND %	GRAVEL %

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BORROW PIT 194

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. WEBER | RIG. MAYHEW #1 | SURFACE DRAINAGE. | VEGETATION. | 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
					Pt	PEAT 1'								
						Sand - Clayey								
2					Sc	Silty		Moderate					Damp	
4								To						
6						Silty							Wet	
8					SM			Low					Damp	
10								Ice						
12							F	Vc - Vr					Damp	
						Silty								
14														
					SM	Fine - Medium							Moist	
16								VX						
18														
20													Moist	
22														
24														Hole in Bag
						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

BORROW PIT 194

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 7

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 1'								
2					Sc	Sand - Silty Clayey		Low To					Damp	
4														Hole in Bag
6								Moderate						
8					SM	Silty		Ice					Moist	
10														
12							F	VX						Hole in Bag
14						Silt - Sand Mix								
16					SM			Vc - Vr					Damp	
18					ML									
20														
22													Damp	
24													Damp	
						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 80 100 120 140 160+

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BORROW PIT 194

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK	DATE DRILLED. 7/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. WEBER	RIG. MAYHEW #1	SURFACE DRAINAGE.	VEGETATION.	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						Sand - Silty							Damp	
4						Clayey		Low						
6					SM	Silty Fine - Medium		To					Damp	
8								Moderate					Wet	
10							F	Ice						
12					SP								Moist	
14								VX						
16													Moist	
18														
20					SP	Fine - Coarse		Vc - Vr					Wet	
22														
24						BOTTOM OF HOLE 25'							Moist	
26														
28														

8074

DS-14-5-74 b

BORROW PIT 194

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 9

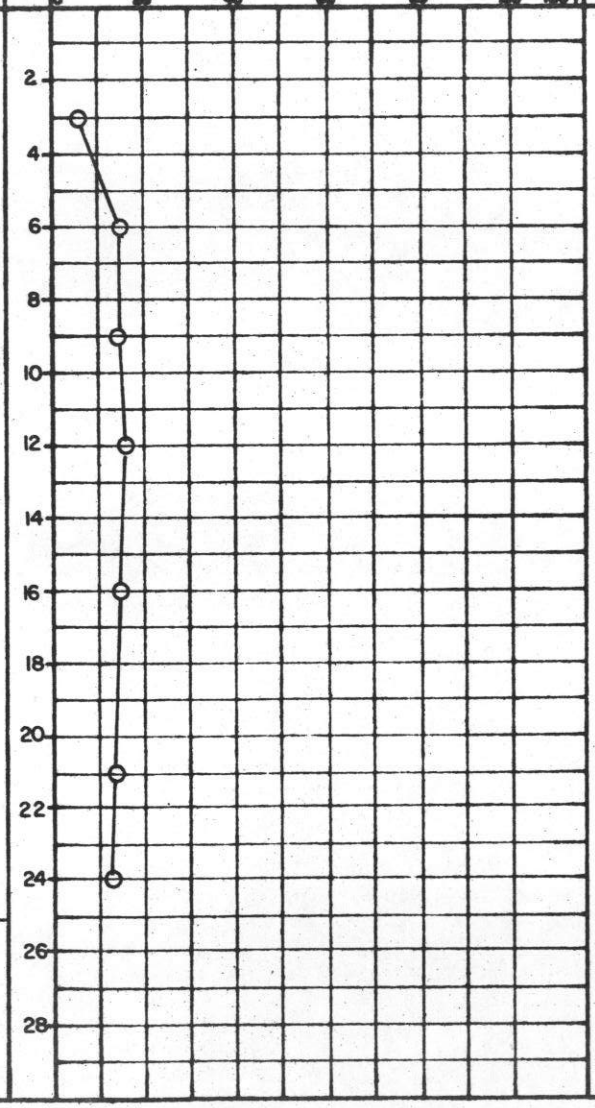
MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT 1'			
2						Sand - Silty			Damp
						Fine - Medium			
4								Moderate	Wet
6								Ice	
8					SM				Moist
10							F.		
12								Vc - Vr	Wet
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+

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



8074

DS-14-5-74 b

BORROW PIT 194

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. WEBER | 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 1'		Low Ice VX					Damp	
2						Sand - Silty Fine - Medium								
4													Damp	
6					SM									
8													Damp	
10								Moderate Ice Vc - Vr						
12							F						Wet	
14													Wet	
16														
18														
20						20'								
22					CL	Clay - Silty Sandy-Pebbles		Low Ice VX					Damp	
24					Cl	Low-Med. Plastic 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 40 20 60 40 80 60 100 80 120 100 140 120 160+

REMARKS

B074

DS-14-5-74 b

BORROW PIT 194

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION -D-

FIELD ENG. D. COOK | DATE DRILLED. 7/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 11

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 1'								
2						Sand - Silty		Moderate					Damp	
4					SM	Fine - Medium		To					Sat.	
6														
8													Wet	
10							F	Low						
12													Wet	
14								Ice						
16													Moist	
18								Vc - Vr						
20								VX						
22													Moist	
24													Moist	
						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+

B074

DS-14-5-74 b

BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 1

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2					SC	SAND -Gravelly Clayey — 4'		
4								
6						SAND -Silty Fine None plastic		Low
8								
10					SM		F	Ice
12								
14								Vx
16								
18								
20								
22								High To Moderate Ice Vs Vc - Vr
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
0						
2						
4					Damp	
6					Damp	
8						
10					Damp	
12					Damp	
14						
16					Moist	
18						
20						
22					Sat.	
24					Sat.	
26						
28						

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BORROW PIT 195

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 2

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT		Low					
						.5'							
2					CI	CLAY -Silty sandy Pebbles Med. plastic							Damp
4						4'		Ice					
6						SAND -Silty None plastic		Vx					Damp
8													
10								Moderate					Sat.
12					SM		F	To					Sat.
14								High					
16								Ice					Sat.
18								Vc - Vr					
20													
22								Vs					Sat.
						23'							
24					ML	SILT -Sandy							Wet
						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+

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 3

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
.5'								
2					CI	CLAY -Sandy Silty Med. plastic		
4'								Low
6						SAND -Silty Fine		
8					SM		F	Ice
10								
12								Vx
14								
16						Clayey		
					SC			Moderate
18								Ice
20								
22								Vc - Vr
23'								
24					ML	SILT -Sandy		
25'								
26						BOTTOM OF HOLE - 25'		
28								

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

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

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 4 | 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						
2						SAND -Silty None plastic							Damp	
4														
6								Frozen					Damp	
8					SM			Nbn						
10													Humid	
12							F						Humid	
14														
16													Damp	
18								Low Ice						
20														
22								Vx					Moist	
24					ML	SILT - Sandy Clayey — 23' — 25'							Moist	
26						BOTTOM OF HOLE - 25'								
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE-BIRCH-ALDER | ELEV.

TEST HOLE 5 | MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT — 1'			
2					SM	SAND -Silty Fine	F	Low	Hole In Bag
4									
6								Ice	Moist
8									
10								Vx	Moist
12									Moist
14									
16								Moderate To High Ice Vc - Vr Vs	Sat.
18									
20									Free Water
22						23'			
24					ML	SILT -Sandy			Sat.
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	CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 6
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-ALDER	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						SAND -Silty Fine		Low Ice					Damp	
4														
6													Hole In Bag	
8					SM								Hole In Bag	
10														
12							F	Vx					Moist	
14														
16													Moist	
18								Moderate Ice						
20													Hole In Bag	
22								Vc - Vr						
24													Wet	
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+

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE-BIRCH-ALDER | ELEV.

TEST HOLE 7

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
2					Pt	PEAT — 1½'	F	Low	Moist
4						SAND -Silty Fine			
6								Ice	Moist
8					SM				Hole In Bag
10								Vx	
12									Moist
14								Moderate	
16						— 15'			Wet
18						SILT -Sandy		Ice	
20									
22					ML			Vc - Vr	Wet
24									Wet
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										
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26										
28										

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %

REMARKS

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 8
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-ALDER	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2					SC	SAND -Clayey Silty Fine		Moderate
4								
6					SM	Silty fine		Ice
8								
10							F	
12								Vc - Vr
14								
16					SC	Clayey		
18								
20								
22						Silty fine		
24					SM			
						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 80 100 120 140 109+

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

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE-BIRCH-ALDER | ELEV.

TEST HOLE 9

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2					SC	SAND -Clayey Silty Fine		Moderate
4								
6					SM	Silty fine		
8								Ice
10							F	
12								Vc - Vr
14								
16								
18								
20								
22					SC	Clayey		
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	
				Wet	
				Moist	
				Wet	
				Wet	

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE-BIRCH-ALDER | 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	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT — 1'			
2					SC	SAND -Clayey Silty Fine		Low	Moist
4									
6								To	Moist
8								Moderate	Moist
10					SM	Silty fine			
12							F	Ice	Moist
14								Vx	
16									Wet
18									
20								Vc - Vr	
22									Moist
24									Wet
						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
	%	%	%	%

REMARKS

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-ALDER	ELEV.

TEST HOLE 11

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	REMARKS
2					Pt	PEAT — 1'				
4					CL	CLAY -Silty Sandy Low plastic — 5'		Moderate	Moist	
6					SM	SAND -Silty Fine	F	Ice	Wet	
8									Hole In Bag	
10								Vc - Vr		
12									Wet	
14										
16									Hole In Bag	
18										
20									Hole In Bag	
22					SC	Clayey				
24									Moist	
26						BOTTOM OF HOLE - 25'				
28										

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

PLASTIC LIMIT — LIQUID LIMIT

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 %

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BORROW PIT 195

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MACKENZIE HIGHWAY

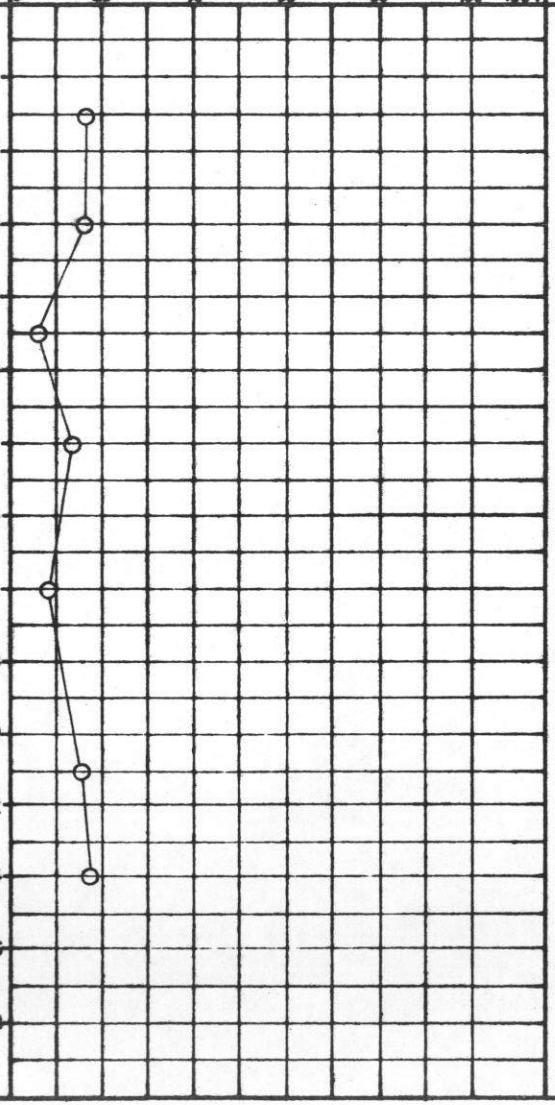
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 12
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-ALDERS	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2					CL	CLAY -Silty Sandy Low plastic — 4'		Low To
4								
6					SM	SAND -Silty Fine		Moderate
8							F	Ice
10								
12								
14					SP	Med. to coarse pebbles		Vx
16								
18								Vc - Vr
20								
22					SM	Silty fine		
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	
				Moist	
				Wet	
				Wet	
				Wet	

DS-14-5-74 b

BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE-BIRCH-ALDER | ELEV.

TEST HOLE 13

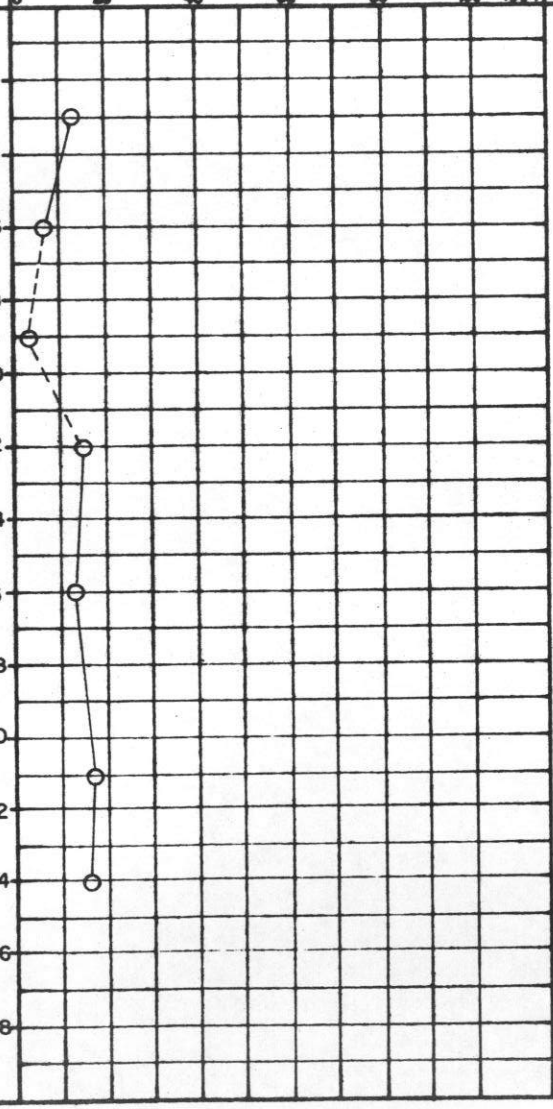
MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2					SC	SAND-Clayey silty		Low Ice
4								
6					SM	Silty fine		Vx
8								
10						Pebbles	F	
12					SM	Silty fine		
14								Moderate
16					SC	Clayey-pebbles		Ice
18								
20								Vc - Vr
22					SM	Silty fine		
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
				Damp
				Hole In Bag
				Moist
				Wet
				Wet
				Sat.

DS-14-5-74 b

BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE-BIRCH-ALDER | ELEV.

TEST HOLE 14

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT — 1'								
2					SC	SAND-Clayey silty		Low					Hole In Bag	
4								To						
6					SM	Silty fine pebbles							Hole In Bag	
8								Moderate						
10					SM	Silty fine	F						Hole In Bag	
12														
14								Vx						
16													Moist	
18								Vc - Vr						
20						Clayey								
22					SC								Wet	
24													Hole In Bag	
						25'								
26						BOTTOM OF HOLE - 25'								
28														

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

DS-14-5-74 b

BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE-BIRCH-ALDER | ELEV.

TEST HOLE 15

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT 1'		Low					Moist	
2						SAND -Silty Fine								
4								Ice						
6													Damp	
8								Vx					Moist	
10						Pebbles & Shale fragments	F							
12													Wet	
14								Moderate						
16								Ice					Wet	
18					SC	Clayey Silty fine								
20														
22								Vc - Vr					Wet	
24													Wet	
						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 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. McINTOSH | RIG. MAYHEW - #1 | SURFACE DRAINAGE. GOOD | VEGETATION. SPRUCE-BIRCH-ALDER | ELEV.

TEST HOLE 16

MILE

DRY DENSITY (lbs./ Ft.^{3}) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 109+
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 .5'		Low Ice						
2					SM	SAND -Silty Fine		Vx					Damp	
4														
6													Moist	
8					SC	Clayey	F	Moderate To High Ice					Sat.	
10														
12													Sat.	
14														
16					SM	Silty fine							Sat.	
18								Vc - Vr						
20													Hole In Bag	
22								Vs						
24													Wet	
26						25' BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-ALDER	ELEV.

TEST HOLE 17

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 .5'								
2					SC	SAND -Clayey Silty Fine		Moderate					Moist	
4								To						
6					SM	Silty fine							Wet	
8								High						
10					SC	Clayey							Wet	
12							F	Ice					Sat.	
14					SM	Silty fine								
16								Vc - Vr					Wet	
18														
20								Vs						
22													Sat.	
24													Wet	
						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 195

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. McINTOSH	RIG. MAYHEW - #1	SURFACE DRAINAGE. GOOD	VEGETATION. SPRUCE-BIRCH-ALDER	ELEV.

TEST HOLE 20

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
2						SAND -Silty Fine		Low
4								
6					SM			To
8								Moderate
10							F	
12								Ice
14								
16								
18								Vx
20								
22								Vc - Vr
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	
				Hole In Bag	
				Wet	
				Hole In Bag	
				Wet	
				Wet	

DS-14-5-74 b

BORROW PIT 195

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

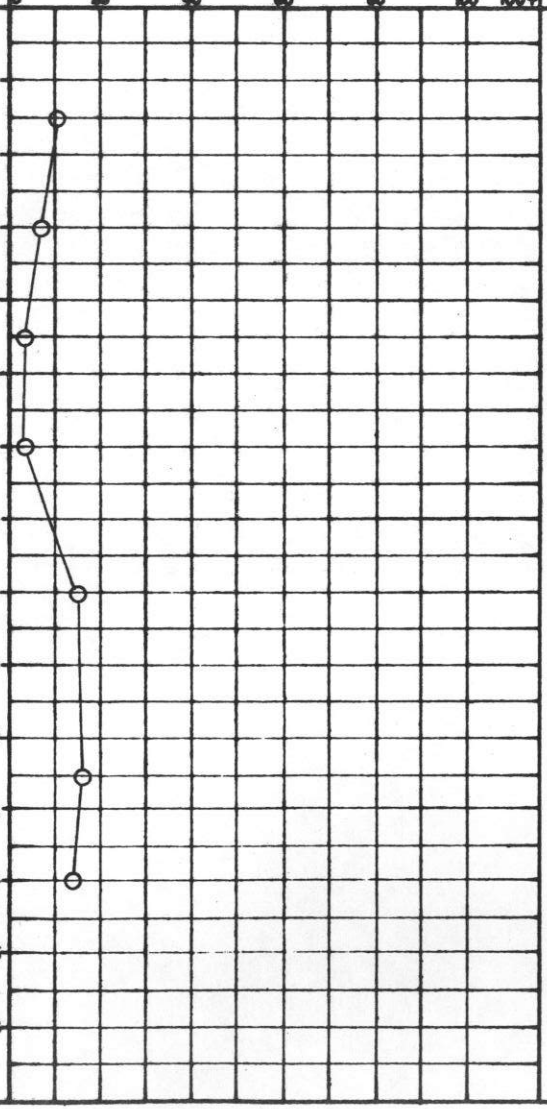
TECH. WEBER | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 21

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT		
						.5'		
2						SAND		Low
						-Silty		
4						Fine		
6								Ice
					SM			
8								
10								Vx
12							F	
14								
16								
								Moderate
18								
								Ice
20								
22								Vc - Vr
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
				Damp
				Damp
				Damp
				Damp
				Wet
				Wet
				Sat.

REMARKS

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 22

MILE

REMARKS

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT .5'							
2					SM	SAND -Silty Fine		Low Ice					Moist
4													
6					SC	Clayey		Vx					Moist
8													
10					SM	Silty fine							Damp
12					SC	Clayey	F						Moist
14													
16								Moderate					Sat.
18													
20								Ice					
22								Vc - Vr					Sat.
24													Sat.
						25'							
26						BOTTOM OF HOLE - 25'							
28													

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BORROW PIT 195

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 23
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
0					Pt	PEAT — .5'								
2					SM	SAND -Silty Fine	F	Nil To Low Ice Nbn					Damp	
4														
6													Damp	
8														
10								Vx					Damp	
12								Moderate To High Ice					Wet	
14														
16													Sat.	
18														
20														
22								Vc - Vr					Sat.	
24								Vs					Sat.	
25						25'								
26						BOTTOM OF HOLE - 25'								
28														

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BORROW PIT 195

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 24

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'		Low Ice Vx					Damp
2					SM	SAND -Silty Fine							
4													
6					SC	Clayey							Moist
8								Moderate					
10													Wet
12					SM	Silty fine	F	Ice					Wet
14													
16								Vc - Vr					Wet
18													
20													Hole In Bag
22													
24													Wet
						25'							
26						BOTTOM OF HOLE - 25'							
28													

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BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 25
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT .5'								
2						SAND -Silty Fine		Low					Moist	
4														
6								Ice					Damp	
8														
10							F						Moist	
12								Vx					Moist	
14														
16													Wet	
18								Moderate Ice Vc - Vr						
20													Hole In Bag	
22						ICE & SAND Clayey		ICE & SC						
24													Wet	
						25'								
26						BOTTOM OF HOLE - 25'								
28														

DS-14-5-74 b

BORROW PIT 195

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 26

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		Moderate						
						.5'								
2					SC	SAND								
						-Clayey								
						Silty								
4						Fine							Moist	
								Ice						
6													Wet	
8													Wet	
10							F							
12								Vc - Vr					Wet	
14														
16					SM	Silty fine							Wet	
18														
20													Wet	
22														
24					SC	Clayey							Sat.	
						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+

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

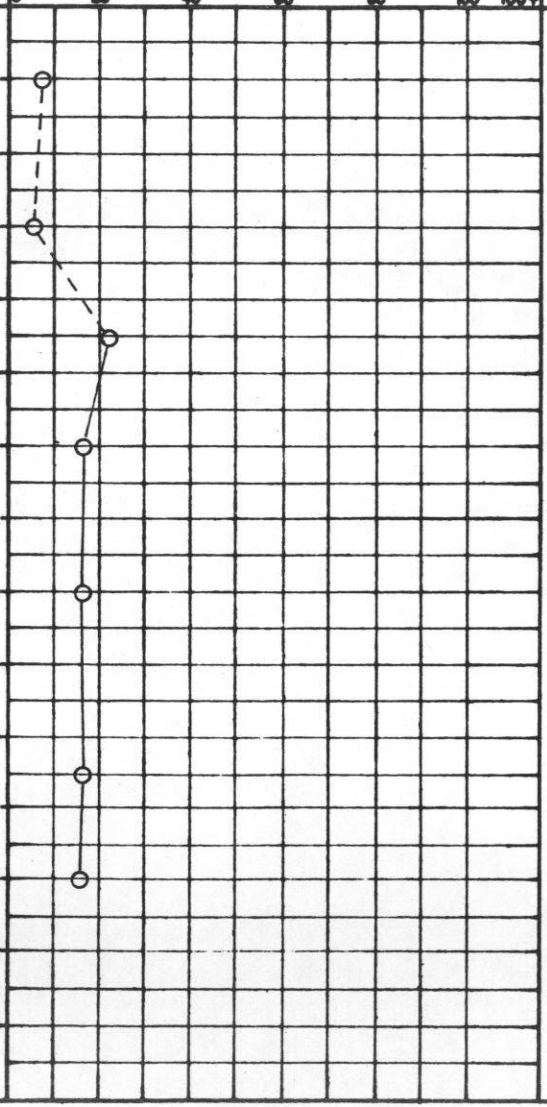
TEST HOLE 27

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT .5'							
2						SAND -Silty Fine		Low					Damp
4								To					
6					SM								Hole In Bag
8								Moderate					
10							F	Ice					Wet
12								Vx					Moist
14													
16													Hole In Bag
18													
20								Vc - Vr					
22													Wet
24													Wet
						25'							
26						BOTTOM OF HOLE - 25'							
28													

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



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BORROW PIT 195

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

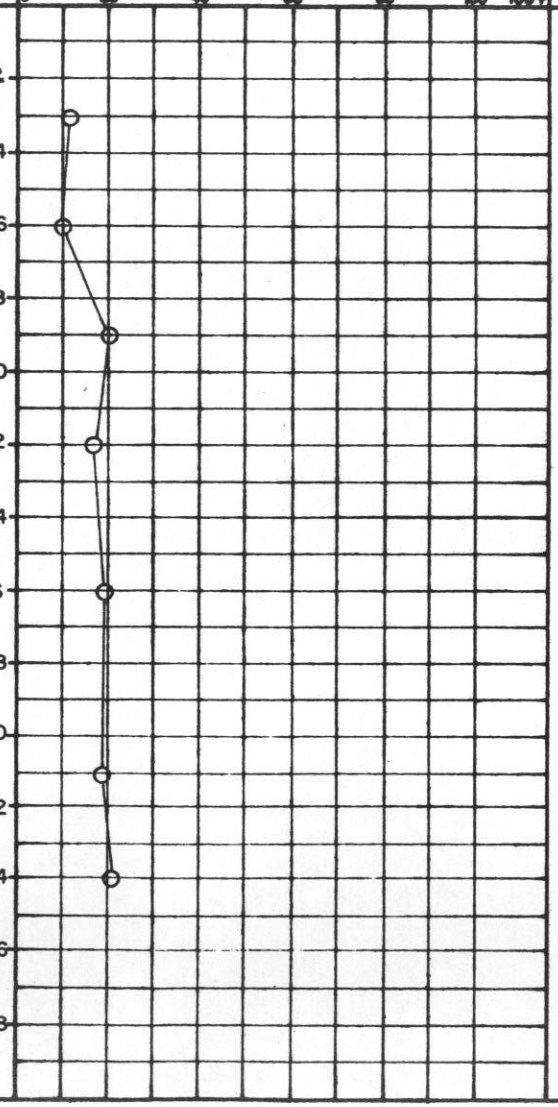
TECH. WEBER | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 28

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		Low
2						SAND -Silty Fine		Ice
4								Vx
6								
8								Moderate
10					SM			
12							F	Ice
14								
16								
18								Vc - Vr
20								
22								
24					SC	Clayey		
						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
				Sat.
				Wet
				Wet
				Sat.
				Wet

REMARKS

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BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 29

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
0.5'								
2					SM	SAND -Silty Fine		Low Ice Vx
4								
6								
8								Moderate
10								
12							F	
14								Ice
16								
18								Vc - Vr
20								
22								
24					SC	Clayey		
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	
					Damp	
					Wet	
					Hole In Bag	
					Hole In Bag	
					Hole In Bag	
					Hole In Bag	

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BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 30

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	REMARKS
					Pt	PEAT .5'								
2						SAND -Silty Fine		Nil	Damp					
4								Ice						
6									Humid					
8					SM			Nbn	Humid					
10														
12							F		Damp					
14														
16								Moderate	Wet					
18														
20								Ice						
22									Wet					
24								Vc - Vr	Moist					
						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 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 31

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						.5'		
2					SC	SAND -Silty fine Clayey		Low
4								
6					SM	Silty fine		Ice
8								
10								Vx
12							F	
14								Moderate
16								
18								Ice
20								
22								Vc - Vr
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 %		
				Moist	
				Damp	
				Damp	
				Moist	
				Wet	
				Hole In Bag	
				Hole In Bag	

DS-14-5-74 b

BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 32

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		Low					
.5'													
2						SAND -Silty Fine		Ice					Moist
4													
6								Vx					Moist
8					SM								Hole In Bag
10								Moderate					
12							F						Hole In Bag
14								Ice					
16													Wet
18													
20								Vc - Vr					
22													Wet
24													Hole In Bag
25'													
26						BOTTOM OF HOLE - 25'								
28													

DS-14-5-74 b

BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 33

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2					SM	SAND -Silty Fine		Low Ice Vx
8					SC	Clayey	F	Moderate Ice Vc - Vr
20					SM	Silty fine		
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
2					Damp
6					Moist
8					Wet
12					Wet
16					Wet
20					Wet
24					Sat.

REMARKS

DS-14-5-74 b

BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 34

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2					CL	CLAY -Silty sandy Low plastic		Moderate
4						4'		To
6					SC	SAND -Clayey Silty Fine		High
8								
10								Ice
12							F	
14								Vc - Vr
16								
18								Vs
20								
22								
24					SM	Silty fine		
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 80 100 120 140 109+

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

DS-14-5-74 b

BORROW PIT 195

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 35

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT		
						.5'		
2					SC	SAND -Clayey Silty		Low
4								
6					SM	Silty fine		Ice
8								
10							F	Vx
12								
14								Moderate
16						Medium fine		
18					SP			Ice
20								
22								Vc - Vr
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					
6					Moist
8					
10					Moist
12					Wet
14					
16					Wet
18					
20					
22					Wet
24					Wet
26					
28					

DS-14-5-74 b

BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

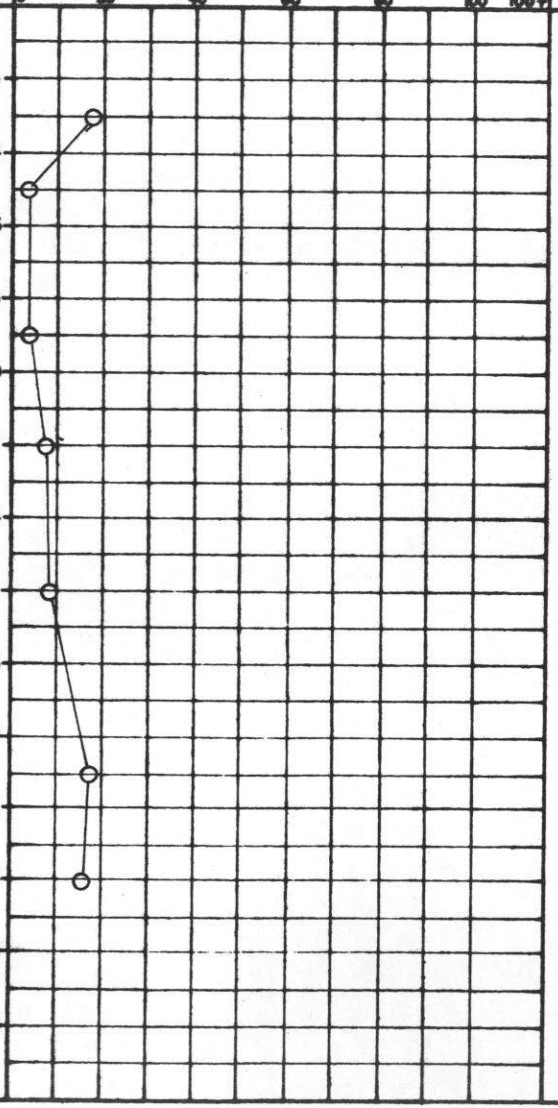
TEST HOLE 1

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT							
						.5'							
2						CLAY -Sandy Silty Low plastic							Moist
4					CL			Low					
						5'							Damp
6						SAND -Silty Fine							
8							F	Ice					
10					SM								Damp
12								Vx					Moist
14													
16													Moist
18													
20													
22								Moderate Ice					Sat.
24								Vc - Vr					Sat.
						25'							
26						BOTTOM OF HOLE - 25'							
28													

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



DS-14-5-74 b

BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

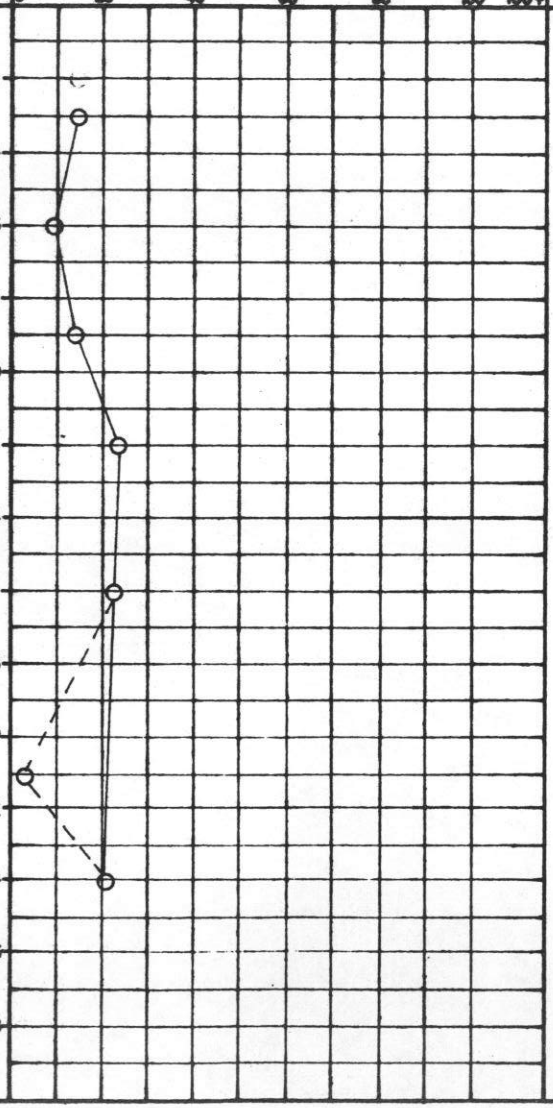
FIELD ENG. N. BURGESS | DATE DRILLED. 9/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 2

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 3"		
2						CLAY -Silty sandy Pebbles Low plastic		Low Ice Vx
4								
5'								
6						SAND -Silty Fine		
8								
10							F	Moderate To High Ice Vc - Vr Vs
12					SM			
14								
16								
18								
20								
22								
24								
25'								
26						BOTTOM OF HOLE - 25'		
28								



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

DS-14-5-74 b

BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. WEBER	RIG. MAYHEW - #1	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 3

MILE

REMARKS

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT		Low					
						.5'							
2					CL	CLAY -Silty Sandy Low plastic		Ice					Moist
4								Vx					
						5'							
6						SAND -Silty Fine		Moderate					Sat.
8								To					Sat.
10								High					
12					SM		F	Ice					Sat.
14													
16								Vc - Vr					Wet
18													
20								Vs					
22													Sat.
24													Sat.
						25'							
26						BOTTOM OF HOLE - 25'							
28													

DS-14-5-74 b

BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

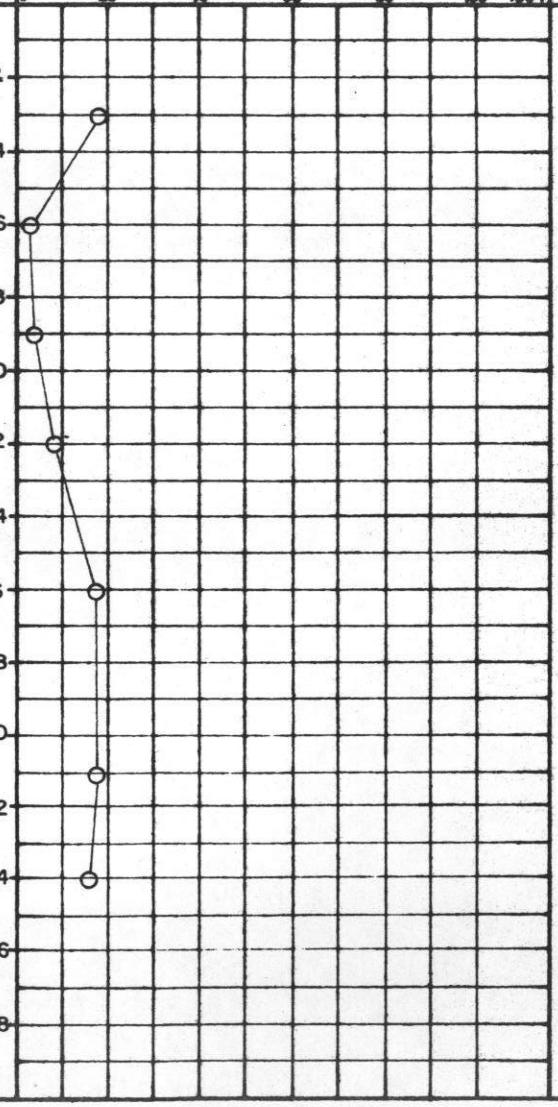
TECH. WEBER | RIG. MAYHEW - #1 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 4

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2					SC	SAND -Clayey Silty	F	Low Ice
6					SM	Silty fine		
14								Moderate Ice Vc - Vr To Vs High Ice
						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 %		
				Moist	
				Damp	
				Damp	
				Moist	
				Sat.	
				Sat.	
				Sat.	

DS-14-5-74 b

BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 5 | MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT .5'	F	Low Ice Vx					Moist
2–4					CL	CLAY -Sandy Silty Pebbles Low plastic							
6						7'		Moderate					Sat.
8						SAND -Silty Fine - Medium		To					Sat.
10								High					
12													Sat.
14					SM			Ice					
16													Sat.
18								Vc - Vr					
20								Vs					Sat.
22													
24													Sat.
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 80 100 120 140 160 180 200+

DS-14-5-74 b

BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 9/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 6

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 3"		Low
2						CLAY		Ice
4					CL	-Silty Sandy Pebbles Low plastic — 5'		Vx
6						SAND		Moderate
8						-Silty Fine		
10					SM			To
12							F	High
14								Ice
16								
18								Vc - Vr
20								
22								Vs
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+

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

DS-14-5-74 b

BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 7

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Low
						.5'		
2						SAND		
						-Silty		
4						Fine		Ice
6								
8					SM			Vx
10							F	
12								Moderate
14								
16								Ice
18								
20								Vc - Vr
						20'		
22					ML	SILT		Low
						-Sandy		Ice
24								Vx
						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
				Moist	
				Moist	
				Moist	
				Sat.	
				Sat.	
				Moist	
				Moist	

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BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 9/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

TECH. JOHNSON | RIG. MAYHEW - #2 | 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
					Pt	PEAT — 3"		Low
2					SC	SAND -Clayey Silty		Ice
4								Vx
6					SM	Silty		Moderate
8								To
10							F	High
12								Ice
14								
16								
18								Vc - Vr
20								
22								Vs
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	
				Sat.	
				Sat.	
				Sat.	
				Sat.	
				Sat.	
				Sat.	
				Wet	

DS-14-5-74 b

BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 9

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 3"		Low
2					SC	SAND -Clayey Silty fine		Ice Vx
4								
6					SM	Silty fine		High
8								To
10							F	
12								Moderate
14								Ice
16								Vs
18								
20								Vc - Vr
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+

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

REMARKS

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BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 9/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

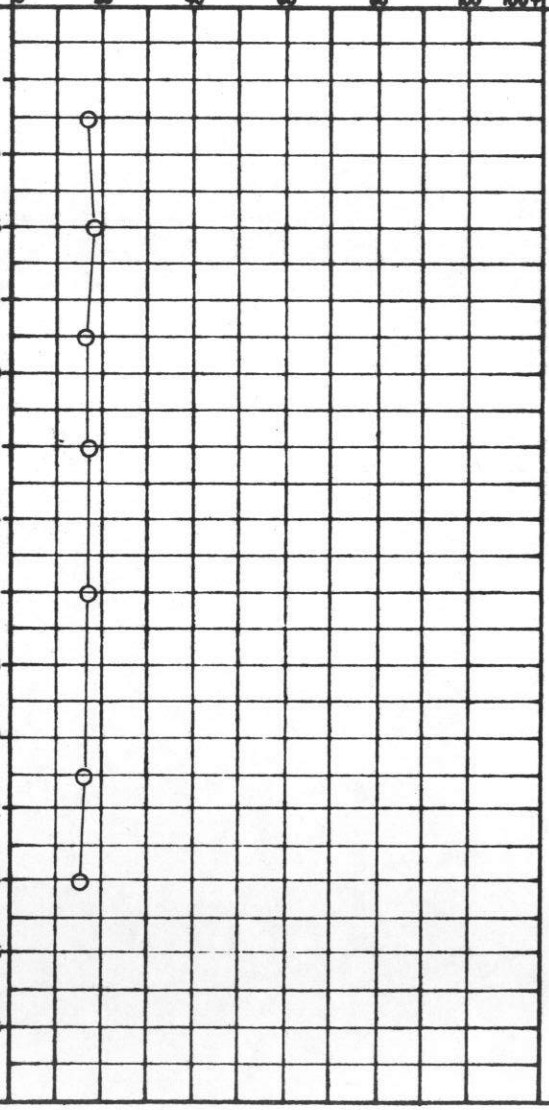
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 10

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 3"		
2					CL	CLAY -Silty sandy Pebbles Low-med. plastic		Moderate
4					CI			
5'								
6						SAND -Silty		
8								Ice
10						Silty fine		
12					SM		F	
14								Vc - Vr
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	REMARKS
0						
2					Moist	
4						
6					Moist	
8						
10					Sat.	
12					Sat.	
14						
16					Sat.	
18						
20						
22					Sat.	
24					Sat.	
26						
28						

DS-14-5-74 b

BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	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					Pt	PEAT — 3"		Moderate					
2						SAND -Silty Fine		And					Wet
4													
6								High					Sat.
8					SM								
10								Ice					Sat.
12							F						Sat.
14								Vc - Vr					
16													Wet
18													
20								Vs					
22													Sat.
24													Wet
						25'							
26						BOTTOM OF HOLE - 25'							
28													

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BORROW PIT 196

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MACKENZIE HIGHWAY

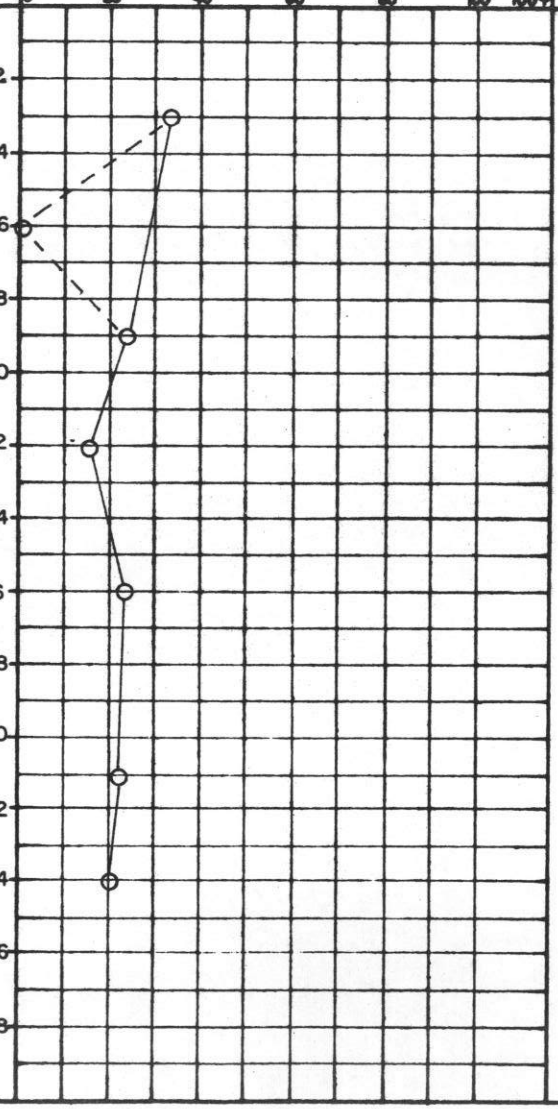
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 12
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 3"		
2					CL	CLAY -Silty Sandy Low plastic		High
4								
						— 5'		To
6					SC	SAND -Clayey Silty		
8								Moderate
10					SM	Silty fine		Ice
12							F	
14								
16								Vs
18								
20								Vc - Vr
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					Free Water
6					Hole In Bag
10					Sat.
12					Sat.
16					Sat.
22					Sat.
24					Wet

REMARKS

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 13
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 3"		
2					CL CI	CLAY -Silty Organics to 4" Low-med. plastic		High
4						— 4'		
6					ML	SILT -Sandy		Ice
8						— 8'		
10					SM	SAND -Silty	F	Vs
12								
14								
16								
18								Moderate
20								Ice
22								
24								Vc - Vr
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 %		
				Wet	
				Sat.	
				Wet	
				Free Water	
				Free Water	
				Wet	
				Moist	

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 9/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 14

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT — 3"							
2					CL CI	CLAY -Silty Sandy Pebbles		Moderate					Moist
4													
5'													
6						SAND -Silty							Moist
8								Ice					
10													Moist
12					SM ML	SAND-SILT MIXTURE	F	Vc - Vr					Wet
14													
16													Wet
17'													
18						SAND -Silty							
20					SM								
22													Moist
24													Moist
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+

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BORROW PIT 196

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 9/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET. | TEST HOLE 15

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

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

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
					Pt	PEAT — 3"								
2					CI	CLAY -Sandy Silty Med. plastic		High					Moist	
4						— 4'		And						
6						SAND -Silty		Moderate					Free Water	
8								Ice					Moist	
10					SM		F							
12													Free Water	
14								Vs						
16													Moist	
18								Vc - Vr						
20													Wet	
22														
24													Moist	
						— 25'								
26						BOTTOM OF HOLE - 25'								
28														

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BORROW PIT 196

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MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 9/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 16

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 3"		
2					ML	SILT -Sandy		Moderate
4								
6								Ice
8						— 8'		
10					SM	SAND -Silty	F	Vc - Vr
12								
14								
16								
18								
20								
22								
24								
26						— 25'		
28						BOTTOM OF HOLE - 25'		

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

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

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	RELATIVE THAWED MOISTURE CONTENT	REMARKS
				Moist	
				Moist	
				Sat.	
				Wet	
				Wet	
				Sat.	
				Sat.	

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 9/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 17
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DRY DENSITY (lbs./ Ft.³) ▲
WATER CONTENT (% of dry weight) ⊙
ICE CONTENT (% of sample volume) △
PLASTIC LIMIT — LIQUID LIMIT
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 — 3"								
2					CL CI	CLAY -Sandy Silty Organic to 4' Low-med. plastic — 5'		Low					Moist	
6						SAND -Silty		And					Moist	
8								Moderate					Sat.	
10							F							
12					SM			Ice					Moist	
14														
16								Vx					Sat.	
18														
20								Vc - Vr					Hole In Bag	
22														
24													Moist	
26						BOTTOM OF HOLE - 25' — 25'								
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 18 | 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 — 3"								
2						SAND -Silty		Low					Moist	
4					SM									
6								Ice					Damp	
8					SP	Med.-Fine Grained								
10								Vx					Damp	
12							F						Moist	
14								Moderate						
16					SM	Silty							Sat.	
18								Ice						
20														
22								Vc - Vr					Sat.	
24													Sat.	
						25'								
26						BOTTOM OF HOLE - 25'								
28														

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

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

TEST HOLE 19

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT — 3"			
2						SAND -Silty		Low	Damp
4									
6					SM			Ice	Damp
8									Moist
10								Vx	
12							F		Moist
14									
16								Moderate	Sat.
18								Ice	
20								Vc - Vr	Sat.
22								Low	
24								Ice Vx	Moist
						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
	%	%	%	%

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BORROW PIT 196

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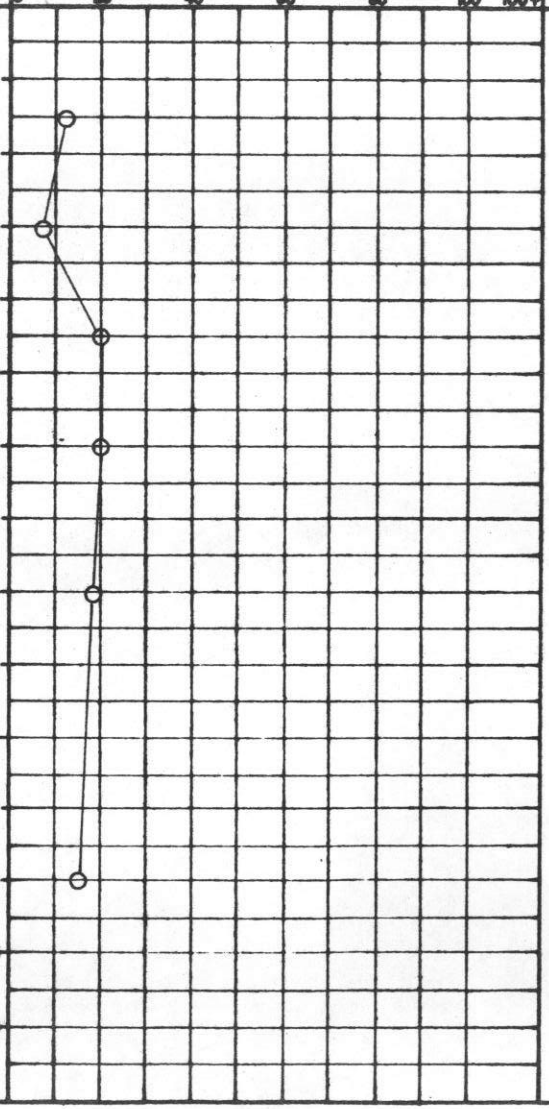
DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 20
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		Low
						.5'		
2					ML	SILT -Sandy		Ice
4								
						5'		Vx
6						SAND -Silty		
8								
10					SM		F	Moderate
12								
14								Ice
16								
18								Vc - Vr
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	
				Moist	
				Sat.	
				Sat.	
				Sat.	
				Hole In Bag	
				Sat.	

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS | DATE DRILLED. 8/4/74 | AIRPHOTO NO. | CHAINAGE. | OFFSET.

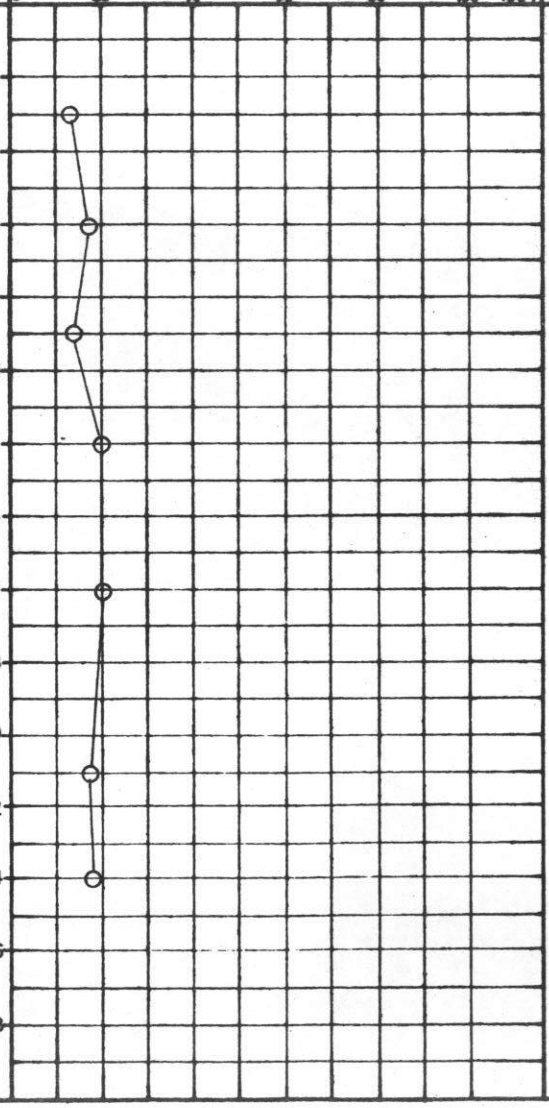
TECH. JOHNSON | RIG. MAYHEW - #2 | SURFACE DRAINAGE. | VEGETATION. | ELEV.

TEST HOLE 21

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 3"		Low
2						SILT -Sandy		
4						— 4'		
6						SAND -Silty		Ice
8								
10								Vx
12					SM		F	
14								Moderate
16								
18								Ice
20								
22								Vc - Vr
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
				Moist
				Wet
				Sat.
				Sat.
				Sat.

REMARKS

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 22

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
0					Pt	PEAT — 3"			
2						SILT -Sandy			Sat.
4					ML			Moderate	
6									Sat.
7'									
8						SAND -Silty		Ice	
10									Wet
12							F		Moist
14					SM			Vc - Vr	
16									Sat.
18									
20									
22									Wet
24									Hole In Bag
25'									
26						BOTTOM OF HOLE - 25'			
28									

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

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

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.	TEST HOLE 23
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.	MILE

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 109+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 — 3"	F	Low					Moist	
2						SILT -Sandy								
4						— 4'		Ice					Damp	
6						SAND -Silty								
8								Vx						
10					SM								Wet	
12								High					Sat.	
14														
16								Ice					Sat.	
18														
20													Free Water	
22								Vs						
24													Free Water	
26						— 25'								
28						BOTTOM OF HOLE - 25'								

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DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 24

MILE

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	RELATIVE THAWED MOISTURE CONTENT
					Pt	PEAT — 3"			
2						SAND -Silty		Moderate	Moist
4						SAND-SILT MIXTURE			
6					SM			Ice	Wet
8									Sat.
10							F	Vc - Vr	
12									Sat.
14									
16									Wet
18									
20									
22									Wet
24									Wet
						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
	%	%	%	%

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DRILL HOLE REPORT

SITE: SECTION D

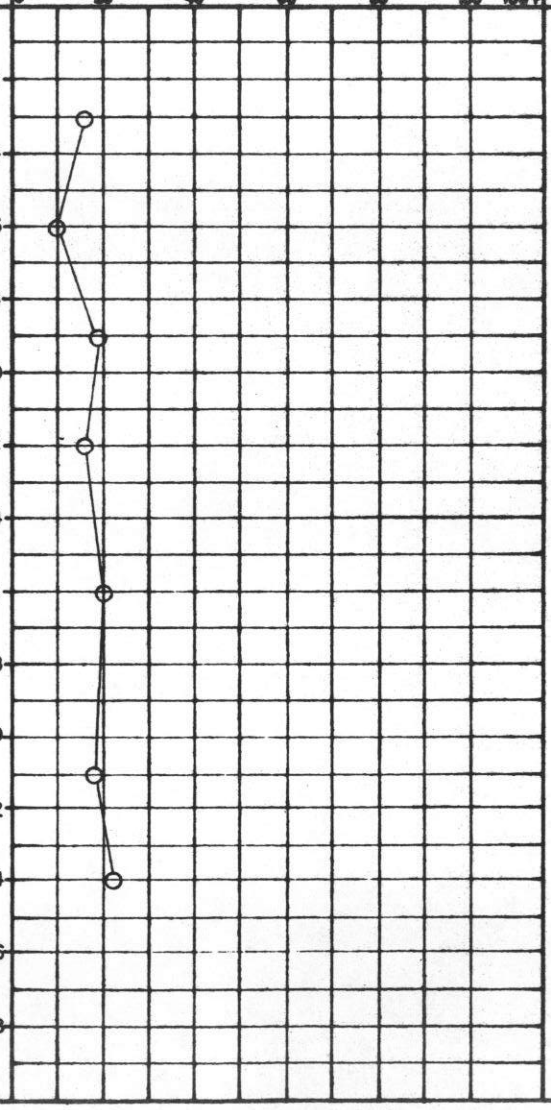
FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 25

MILE

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 3"		
2					SM	SILT -Sandy		Low
4					ML	SILT-SAND MIXTURE		Ice
6						— 7'		Vx
8						SAND -Silty		Moderate
10								
12							F	Ice
14					SM			
16								
18								
20								Vc - Vr
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



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

DS-14-5-74 b

BORROW PIT 196

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DRILL HOLE REPORT

SITE: SECTION D

FIELD ENG. N. BURGESS	DATE DRILLED. 8/4/74	AIRPHOTO NO.	CHAINAGE.	OFFSET.
TECH. JOHNSON	RIG. MAYHEW - #2	SURFACE DRAINAGE.	VEGETATION.	ELEV.

TEST HOLE 26

MILE

DRY DENSITY (lbs./ Ft.^{3})
WATER CONTENT (% of dry weight)
ICE CONTENT (% of sample volume)
PLASTIC LIMIT — LIQUID LIMIT
40 60 80 100 120 140 109+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	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 — 3"	F	Moderate Ice Vc - Vr					Moist	FREE WATER
2					ML	SILT -Sandy — 4'							Wet	
4														
6						SAND -Silty							Sat.	
8					SM									
10													Sat.	
12								High Ice Vs						
14													Sat.	
16														
18													Free Water	
20														
22													Sat.	
24						25'								
26						BOTTOM OF HOLE - 25'								
28														

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