

RESULTS OF LABORATORY ANALYSIS

PROJECT Iqloolik		LICENCE NUMBER N7L4-0577		LOCATION Water Supplies	
DATE SAMPLED Aug 2/83		DATE RECEIVED Aug 8/83		DATE COMPLETED Aug 16, '83	
STATION NUMBER		571-1	571-2		
LABORATORY NUMBER		31145	31146		
ANALYSIS REQUIRED		✓	✓	✓	✓
pH (units)		✓ 8.0	✓ 8.0		
Conductivity (umho/cm)		✓ 25	✓ 280		
Dissolved Oxygen					
Turbidity (NTU)		✓ 1.1	✓ 3.5		
Colour (colour U.)		✓ 5	✓ 5		
Suspended Solids		✓ 25	✓ 25		
TDS, Residue		✓ 150	✓ 330		
Calcium		✓ 23.0	✓ 30.2		
Magnesium		✓ 6.38	✓ 11.2		
Tot. Hardness (CaCO ₃)		✓ 85.8	✓ 122		
Tot. Alkalinity (CaCO ₃)		✓ 79	✓ 88		
Sodium		✓ 14.6	✓ 59		
Potassium		✓ 0.75	✓ 5.45		
Chloride		✓ 23	✓ 40		
Sulphate		✓ 7.5	✓ 40		
Total Coliform (count)					
Fecal Coli. (100 ml)					
Fecal Strep. (ml)					
Std. Plate Cnt. (cnt/ml)					
BOD ₅					
COD					
Carbon, IC					
Carbon, TOC					
Ammonia Nitrogen (as N)					
Nitrate + Nitrite (x)		✓ <0.04	✓ 0.04		
Total Kjeldahl N					
Phosphorus O.P. (as P)					
Phosphorus Tot. (P)		✓ 0.05	✓ 0.05		
Silica Reac. (as SiO ₂)					
Total Cyanide					
Available Cyanide					
Sulphide					
Oil & Grease					
Phenols					
Arsenic	T (ug/L)	✓ <1.0	✓ <1.0		
	D (ug/L)				
Cadmium	T (ug/L)	✓ <0.1	✓ <0.1		
	D (ug/L)				
Copper	T (ug/L)	✓ <1.0	✓ <1.0		
	D (ug/L)				
Iron	T (ug/L)	✓ 75	✓ 120		
	D (ug/L)				
Lead	T (ug/L)	✓ <0.1	✓ <0.1		
	D (ug/L)				
Mercury	T (ug/L)	✓ <0.01	✓ 0.02		
	D (ug/L)	✓ 0.01	✓ 1.0		
Nickel	T (ug/L)	✓ <1.0	✓ 1.0		
	D (ug/L)				
Zinc	T (ug/L)	✓ 40	✓ 31		
	D (ug/L)				
Chromium	T (ug/L)	✓ 0.6	✓ 0.6		
	D (ug/L)				

Results are expressed in mg/L, except as indicated. T and D refer to total and dissolved metals respectively.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
WATER RESOURCES DIVISION, YELLOWKNIFE, NORTHERN TERRITORIES
FIELD SAMPLING AND DATA

LICENSEE/PROJECT <i>Iqloolik</i>		LICENCE NO. <i>N7L4-0571</i>		LOCATION <i>Water Supplies</i>				
DATE SAMPLED <i>Aug 2/83</i>		SAMPLED BY <i>Ballinon/M. Thurn</i>						
ANALYSIS	SAMPLE VOLUME	PRESERVATIVE	STATION NUMBER					
			571-1	571-2				
			BOTTLE NUMBER					
MISC. & ARSENIC	1 LITRE	NONE	✓	✓				
HEAVY METALS	500 ML	2 ML 1:1 HNO ₃	✓	✓				
CYANIDE	500 ML	About 6 pellets NaOH to pH 12						
MERCURY	250 ML	2 ML 1:1 HNO ₃ + 2 ML 5% K ₂ Cr ₂ O ₇	✓	✓				
NUTRIENTS	250 ML	NONE						
BACTERIA	500 ML	NONE						
OIL AND GREASE	1 LITRE (GLASS)	4 ML 1:1 H ₂ SO ₄						
Time of Sampling			<i>1640</i>	<i>1650</i>				
Air Temperature			<i>9.5</i>	<i>8</i>				
Water Temperature			<i>9.5</i>	<i>8</i>				
Rate of Flow								
Ice Thickness								
Depth of Sampling			<i>surface</i>	<i>surface</i>				
pH				<i>7.93</i>				
Conductivity			<i>165</i>	<i>370</i>				
Dissolved Oxygen								

571-1 South Lake near intake from shore

571-2 Reservoir near intake from shore

[illegible]