

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
WATER RESOURCES DIVISION -- NORTHWEST TERRITORIES
REQUEST FOR AND RESULTS OF LABORATORY ANALYSIS

LICENSEE <i>Igloodik</i>	LICENCE NO. <i>N464-0571</i>	LOCATION <i>Water supplies</i>
DATE SAMPLED <i>July 19/82</i>	DATE RECEIVED <i>22 Sept 82</i>	DATE ANALYZED <i>Aug 30, 82</i>

STATION NUMBER	Reservoir ①	South Lake ①	Reservoir ②	South Lake ②	Reservoir ③	South Lake ③
LABORATORY NUMBER	<i>20824</i>	<i>20825</i>	<i>21310</i>	<i>21311</i>	<i>21312</i>	<i>21313</i>
ANALYSIS REQUIRED	<i>✓ received 29-7-82</i>	<i>✓</i>	<i>✓</i>	<i>✓ received 10-8-82</i>	<i>✓</i>	<i>✓</i>
pH (units)	<i>✓ 8.1</i>	<i>✓ 8.1</i>				
So. Cond. (umho/cm)	<i>✓ 300</i>	<i>✓ 230</i>				
Dissolved Oxygen						
Turbidity (JTU)	<i>✓ 3.3</i>	<i>✓ 2.1</i>				
Colour (colour U.)						
Suspended Solids	<i>✓ 45</i>	<i>✓ 13</i>				
TDS, Residue	<i>✓ 176</i>	<i>✓ 131</i>				
Oil & Grease						
Phenols						
Calcium	<i>✓ 23.2</i>	<i>✓ 25.2</i>				
Magnesium	<i>✓ 6.5</i>	<i>✓ 6.8</i>				
Tot. Hardness [S]	<i>✓ 84.7</i>	<i>✓ 90.9</i>				
Tot. Alkalinity [CO ₃]	<i>✓ 60</i>	<i>✓ 85</i>				
Sodium	<i>✓ 21</i>	<i>✓ 10</i>				
Potassium	<i>✓ 2.9</i>	<i>✓ 0.9</i>				
Tot. Coliform [col./100]						
Faecal Coll. [100]						
Faecal Strept [100]						
BOD ₅						
COD						
Carbon, 10						
Carbon, TOC						
Total Cyanide						
Chloride	<i>✓ 37</i>	<i>✓ 31</i>				
Sulfate	<i>✓ 32</i>	<i>✓ 110</i>				
Nitrate						
Nitrite	<i>✓ *</i>	<i>✓ *</i>				
Total Phosphate						
Phosphate O.P. [ppm]						
Thiocyans Tot [ppm]						
Silica Ascorbic Acid						
Arsenic	<i>✓ <0.005</i>	<i>✓ <0.005</i>				
Cadmium			<i>✓ <0.0005</i>	<i>✓ <0.0005</i>		
Copper			<i>✓ <0.001</i>	<i>✓ <0.001</i>		
Iron			<i>✓ 0.066</i>	<i>✓ 0.061</i>		
Lead			<i>✓ <0.001</i>	<i>✓ <0.001</i>		
Mercury					<i>✓ <0.01</i>	<i>✓ <0.01</i>
Nickel			<i>✓ <0.002</i>	<i>✓ <0.002</i>		
Zinc			<i>✓ 0.0006</i>	<i>✓ <0.0005</i>		
Chromium	<i>✓</i>		<i>✓ <0.001</i>	<i>✓ <0.001</i>		
<i>* no sample received.</i>						

All results are expressed in mg/l except as indicated in brackets ().
O-P = ortho phosphate; TDS = total dissolved solids and in () T = total residue, dried at 100°C; E = Extractable; D = Dissolved;
10 = inorganic carbon; TOC = total organic carbon.

FIELD SAMPLING AND DATA

LICENSEE <i>Igloodik</i>	LICENCE NO. <i>N4L4-0571</i>	LOCATION <i>Water Supplies</i>
DATE SAMPLED <i>July 19/82</i>	SAMPLED BY <i>Banner</i>	

SAMPLE COLLECTION	ANALYSIS REQUIRED	VOLUME TO BE COLLECTED	PRESERVATIVE TO BE USED	STATION NUMBER					
				Reservoir	South Lake				
MISC. & ARSENIC	2 LITRES	NONE	Res-1	South L 1					
HEAVY METALS	1 LITRE	2ml HNO ₃	Res-2	South L 2					
CYANIDE	1 LITRE	2ml 50% NaOH Soln.							
MERCURY	250 ML	2ml HNO ₃ + 2ml 5% K ₂ Cr ₂ O ₇ Soln.	Res-3	South L 3					

FIELD OBSERVATION							
Time of Day							
Wind Velocity							
Wind Direction							
Air Temperature							
Barometric Pressure							
Water Level							
Rate of Flow							
Ice Thickness							
Depth of Sampling							

STATIONARY CELL	pH					
	Sp. Conductance					
	Dissolved O ₂					
	Pressure					
	Water Temperature	10°	10°	← approx.		

NOTES

DATE	DESCRIPTION	AMOUNT	CHECK NO.	DEBIT	CREDIT	BALANCE
1/1/77	OPENING BALANCE					100.00
1/5/77	PAYROLL	50.00		50.00		50.00
1/10/77	RENT	25.00		25.00		25.00
1/15/77	SALES				75.00	100.00
1/20/77	EXPENSES	10.00		10.00		90.00
1/25/77	SALES				30.00	120.00
1/30/77	PAYROLL	40.00		40.00		80.00
2/5/77	RENT	20.00		20.00		60.00
2/10/77	SALES				50.00	110.00
2/15/77	EXPENSES	15.00		15.00		95.00
2/20/77	SALES				40.00	135.00
2/25/77	PAYROLL	35.00		35.00		100.00
2/28/77	RENT	15.00		15.00		85.00
3/5/77	SALES				60.00	145.00
3/10/77	EXPENSES	20.00		20.00		125.00
3/15/77	SALES				55.00	180.00
3/20/77	PAYROLL	45.00		45.00		135.00
3/25/77	RENT	18.00		18.00		117.00
3/30/77	SALES				48.00	165.00
4/5/77	EXPENSES	22.00		22.00		143.00
4/10/77	SALES				52.00	195.00
4/15/77	PAYROLL	48.00		48.00		147.00
4/20/77	RENT	22.00		22.00		125.00
4/25/77	SALES				58.00	183.00
4/30/77	EXPENSES	25.00		25.00		158.00
5/5/77	SALES				62.00	220.00
5/10/77	PAYROLL	50.00		50.00		170.00
5/15/77	RENT	25.00		25.00		145.00
5/20/77	SALES				65.00	210.00
5/25/77	EXPENSES	28.00		28.00		182.00
5/30/77	SALES				68.00	250.00
6/5/77	PAYROLL	55.00		55.00		195.00
6/10/77	RENT	28.00		28.00		167.00
6/15/77	SALES				72.00	239.00
6/20/77	EXPENSES	30.00		30.00		209.00
6/25/77	SALES				75.00	284.00
6/30/77	PAYROLL	60.00		60.00		224.00
7/5/77	RENT	30.00		30.00		194.00
7/10/77	SALES				78.00	272.00
7/15/77	EXPENSES	32.00		32.00		240.00
7/20/77	SALES				82.00	322.00
7/25/77	PAYROLL	65.00		65.00		257.00
7/30/77	RENT	32.00		32.00		225.00
8/5/77	SALES				85.00	310.00
8/10/77	EXPENSES	35.00		35.00		275.00
8/15/77	SALES				88.00	363.00
8/20/77	PAYROLL	70.00		70.00		293.00
8/25/77	RENT	35.00		35.00		258.00
8/30/77	SALES				92.00	350.00
9/5/77	EXPENSES	38.00		38.00		312.00
9/10/77	SALES				95.00	407.00
9/15/77	PAYROLL	75.00		75.00		332.00
9/20/77	RENT	38.00		38.00		294.00
9/25/77	SALES				98.00	392.00
9/30/77	EXPENSES	40.00		40.00		352.00
10/5/77	SALES				102.00	454.00
10/10/77	PAYROLL	80.00		80.00		374.00
10/15/77	RENT	40.00		40.00		334.00
10/20/77	SALES				105.00	439.00
10/25/77	EXPENSES	42.00		42.00		397.00
10/30/77	SALES				108.00	505.00
11/5/77	PAYROLL	85.00		85.00		420.00
11/10/77	RENT	42.00		42.00		378.00
11/15/77	SALES				112.00	490.00
11/20/77	EXPENSES	45.00		45.00		445.00
11/25/77	SALES				115.00	560.00
11/30/77	PAYROLL	90.00		90.00		470.00
12/5/77	RENT	45.00		45.00		425.00
12/10/77	SALES				118.00	543.00
12/15/77	EXPENSES	48.00		48.00		505.00
12/20/77	SALES				122.00	627.00
12/25/77	PAYROLL	95.00		95.00		532.00
12/30/77	RENT	48.00		48.00		484.00
1/5/78	SALES				125.00	609.00
1/10/78	EXPENSES	50.00		50.00		559.00
1/15/78	SALES				128.00	687.00
1/20/78	PAYROLL	100.00		100.00		587.00
1/25/78	RENT	50.00		50.00		537.00
1/30/78	SALES				132.00	669.00
2/5/78	EXPENSES	52.00		52.00		617.00
2/10/78	SALES				135.00	752.00
2/15/78	PAYROLL	105.00		105.00		647.00
2/20/78	RENT	52.00		52.00		595.00
2/25/78	SALES				138.00	733.00
2/28/78	EXPENSES	55.00		55.00		678.00
3/5/78	SALES				142.00	820.00
3/10/78	PAYROLL	110.00		110.00		710.00
3/15/78	RENT	55.00		55.00		655.00
3/20/78	SALES				145.00	800.00
3/25/78	EXPENSES	58.00		58.00		742.00
3/30/78	SALES				148.00	890.00
4/5/78	PAYROLL	115.00		115.00		777.00
4/10/78	RENT	58.00		58.00		719.00
4/15/78	SALES				152.00	871.00
4/20/78	EXPENSES	60.00		60.00		811.00
4/25/78	SALES				155.00	966.00
4/30/78	PAYROLL	120.00		120.00		846.00
5/5/78	RENT	60.00		60.00		786.00
5/10/78	SALES				158.00	944.00
5/15/78	EXPENSES	62.00		62.00		882.00
5/20/78	SALES				162.00	1044.00
5/25/78	PAYROLL	125.00		125.00		919.00
5/30/78	RENT	62.00		62.00		857.00
6/5/78	SALES				165.00	1022.00
6/10/78	EXPENSES	65.00		65.00		957.00
6/15/78	SALES				168.00	1125.00
6/20/78	PAYROLL	130.00		130.00		995.00
6/25/78	RENT	65.00		65.00		930.00
6/30/78	SALES				172.00	1102.00
7/5/78	EXPENSES	68.00		68.00		1034.00
7/10/78	SALES				175.00	1209.00
7/15/78	PAYROLL	135.00		135.00		1074.00
7/20/78	RENT	68.00		68.00		1006.00
7/25/78	SALES				178.00	1184.00
7/30/78	EXPENSES	70.00		70.00		1114.00
8/5/78	SALES				182.00	1296.00
8/10/78	PAYROLL	140.00		140.00		1154.00
8/15/78	RENT	70.00		70.00		1084.00
8/20/78	SALES				185.00	1269.00
8/25/78	EXPENSES	72.00		72.00		1197.00
8/30/78	SALES				188.00	1385.00
9/5/78	PAYROLL	145.00		145.00		1242.00
9/10/78	RENT	72.00		72.00		1170.00
9/15/78	SALES				192.00	1362.00
9/20/78	EXPENSES	75.00		75.00		1287.00
9/25/78	SALES				195.00	1482.00
9/30/78	PAYROLL	150.00		150.00		1332.00
10/5/78	RENT	75.00		75.00		1257.00
10/10/78	SALES				198.00	1455.00
10/15/78	EXPENSES	78.00		78.00		1377.00
10/20/78	SALES				202.00	1579.00
10/25/78	PAYROLL	155.00		155.00		1424.00
10/30/78	RENT	78.00		78.00		1346.00
11/5/78	SALES				205.00	1551.00
11/10/78	EXPENSES	80.00		80.00		1466.00
11/15/78	SALES				208.00	1674.00
11/20/78	PAYROLL	160.00		160.00		1514.00
11/25/78	RENT	80.00		80.00		1434.00
11/30/78	SALES				212.00	1646.00
12/5/78	EXPENSES	82.00		82.00		1562.00
12/10/78	SALES				215.00	1777.00
12/15/78	PAYROLL	165.00		165.00		1612.00
12/20/78	RENT	82.00		82.00		1530.00
12/25/78	SALES				218.00	1748.00
12/30/78	EXPENSES	85.00		85.00		1653.00
1/5/79	SALES				222.00	1875.00
1/10/79	PAYROLL	170.00		170.00		1703.00
1/15/79	RENT	85.00		85.00		1618.00
1/20/79	SALES				225.00	1843.00
1/25/79	EXPENSES	88.00		88.00		1755.00
1/30/79	SALES				228.00	1983.00
2/5/79	PAYROLL	175.00		175.00		1808.00
2/10/79	RENT	88.00		88.00		1720.00
2/15/79	SALES				232.00	1952.00
2/20/79	EXPENSES	90.00		90.00		1862.00
2/25/79	SALES				235.00	2097.00
2/28/79	PAYROLL	180.00		180.00		1917.00
3/5/79	RENT	90.00		90.00		1827.00
3/10/79	SALES				238.00	2065.00
3/15/79	EXPENSES	92.00		92.00		1973.00
3/20/79	SALES				242.00	2215.00
3/25/79	PAYROLL	185.00		185.00		2038.00
3/30/79	RENT	92.00		92.00		1946.00
4/5/79	SALES				245.00	2191.00
4/10/79	EXPENSES	95.00		95.00		2096.00
4/15/79	SALES				248.00	2344.00
4/20/79	PAYROLL	190.00		190.00		2154.00
4/25/79	RENT	95.00		95.00		2059.00
4/30/79	SALES				252.00	2311.00
5/5/79	EXPENSES	98.00		98.00		2213.00
5/10/79	SALES				255.00	2468.00
5/15/79	PAYROLL	195.00		195.00		2268.00
5/20/79	RENT	98.00		98.00		2170.00
5/25/79	SALES				258.00	2428.00
5/30/79	EXPENSES	100.00		100.00		2328.00
6/5/79	SALES				262.00	2590.00
6/10/79	PAYROLL	200.00		200.00		2398.00
6/15/79	RENT	100.00		100.00		2298.00
6/20/79	SALES				265.00	2563.00
6/25/79	EXPENSES	102.00		102.00		2461.00
6/30/79	SALES				268.00	2729.00
7/5/79	PAYROLL	205.00		205.00		2516.00
7/10/79	RENT	102.00		102.00		2414.00
7/15/79	SALES				272.00	2686.00
7/20/79	EXPENSES	105.00		105.00		2581.00
7/25/79	SALES				275.00	2856.00
7/30/79	PAYROLL	210.00		210.00		2641.00
8/5/79	RENT	105.00		105.00		2536.00
8/10/79	SALES				278.00	2814.00
8/15/79	EXPENSES	108.00		108.00		2706.00
8/20/79	SALES				282.00	2988.00
8/25/79	PAYROLL	215.00		215.00		2771.00
8/30/79	RENT	108.00		108.00		2663.00
9/5/79	SALES				285.00	2948.00
9/10/79	EXPENSES	110.00		110.00		2838.00
9/15/79	SALES				288.00	3126.00
9/20/79	PAYROLL	220.00		220.00		2906.00
9/25/79	RENT	110.00		110.00		2796.00
9/30/79	SALES				292.00	3088.00