



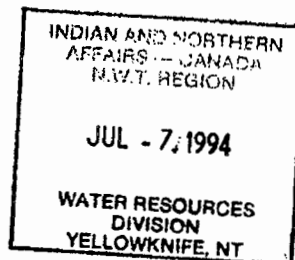
Indian and Northern
Affairs Canada

Affaires indiennes
et du Nord Canada

DIAN, WT Region
Box
Iqaluit, NWT
XOA OHO

July 4, 1994

Mr. Henry Boychuk
Senior Administrative Officer
Hamlet of Broughton Island
Broughton Island, NWT
XOA OBO



Your file Votre référence

Our file Notre référence
B9545-5-N4L4-0640

0640-Z
WB
MACA

Dear Mr. Boychuk;

Re: Northwest Territories Waters Act
Water Licence N4L4-0640
Hamlet of Broughton Island, NT
Inspection Report - June 30, 1994

1. Please find the above noted report by Paul Smith, Water Resources Officer, Nunavut District.
2. The inspection report has identified a area of concern relating to the posting of Surveillance Network Station (SNP) signs. You are encouraged to seek an amendment of your Water Licence from the Water Board due to the relocation of the waste disposal site. SNP station signs should be posted once the new locations are determined.
3. While the final analysis of water samples collected during the inspection are not yet available, it was noted that the pH of the water tested on June 30, 1994 was below the 6.5 level as recommended by the Canadian Drinking Water Guidelines. The pH of the Tulugak River on June 30, 1994 was 6.10. For this reason, our office encourages the continued use of lime to raise the pH of the drinking water. We will send you a copy of the analysis of the water samples collected when they have been received and reviewed by this office.
4. Please feel free to contact our District Office if you have any questions or comments on this report.

Sincerely,

J.M.A. Theriault
District Manager
Baffin District

cc: - Water Resources, YK #
- Environmental Health Officer, BRHB, Iqaluit
- Project Officer, MACA, Iqaluit

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DIAN NORTHERN AFFAIRS
WATER RESOURCES LABORATORY
Box 1500
Yellowknife, NT. X1A 2R3
Tel. (403) 920-8129
Fax. (403) 873-9300

To: Hamlet of Broughton Isl.
c/o DIAND
Baffin District
Box 100
==> Iqaluit NT
Paul Smith

SAMPLE INFORMATION

Our Lab # : 941044
Your Sample ID: 640-1
Sample Matrix : water

Account No.: N4L40640

Collection:
Location: Broughton Island
Date: 06/30/94
By: PS

Report Date: 10/15/94

Approved by: 1.0

- SAMPLE ANALYSIS REPORT -

Lab#	Parameter	Result Units	Detect Limit	Method Code
941044	Alkalinity	L0.3 mg/L	0.300	10101
	Calcium	0.20 mg/L	0.040	20103
	T.Cadmium ICP-MS	L0.1 ug/L	0.100	100133
	Chloride	3.15 mg/L	0.080	17206
	Colour	L5 Colour	5.000	02021
	Conductivity	19.4 uS/cm	0.100	02041
	T.Cobalt ICP-MS	L0.1 ug/L	0.100	27009
	T.Chromium ICP-MS	0.2 ug/L	0.200	24009
	T.Copper ICP-MS	0.2 ug/L	0.100	100119
	Filt.Residue	19 mg/L	10.000	10451
	Tot.Hardness	1.7 mg/L	0.100	10602
	Potassium	0.13 mg/L	0.050	19106
	Magnesium	0.30 mg/L	0.010	12102
	T.Manganese ICP-MS	0.9 ug/L	0.100	100113
	Sodium	2.02 mg/L	0.040	11102
	Non-Filt_Res.	L3 mg/L	3.000	10406
	T.Nickel ICP-MS	L0.1 ug/L	0.100	100117
	NO3-N+NO2-N	0.016 mg/L	0.008	07110
	T.Lead ICP-MS	1.1 ug/L	0.200	100145
	pH	5.63 pH	0.050	10301
	T. Iron	11 ug/L	3.000	26002
	T-Phosphorous	0.003 mg/L	0.002	15403
	Turbidity	0.7 NTU	0.100	02081
	T.Zinc ICP-MS	0.5 ug/L	0.500	100121

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To: Hamlet of Broughton Isl.
c/o DIAND
Baffin District
Box 100
==> Iqaluit NT
Paul Smith

SAMPLE INFORMATION

Our Lab # : 941045
Your Sample ID: 640-4
Sample Matrix : water

Account No.: N4L40640

Collection:
Location: Broughton Island
Date: 06/30/94
By: PS

Report Date: 10/15/94

Approved by: J. Q.

- SAMPLE ANALYSIS REPORT -

Lab#	Parameter	Result Units	Detect Limit	Method Code
941045	Calcium	5.90 mg/L	0.040	20103
	T.Cadmium ICP-MS	0.4 ug/L	0.100	100133
	Conductivity	1164.0 uS/cm	0.100	02041
	T.Cobalt ICP-MS	1.1 ug/L	0.100	27009
	T.Chromium ICP-MS	4.6 ug/L	0.200	24009
	T.Copper ICP-MS	52.4 ug/L	0.100	100119
	Tot.Hardness	25.8 mg/L	0.100	10602
	Potassium	24.00 mg/L	0.050	19106
	Magnesium	2.70 mg/L	0.010	12102
	T.Manganese ICP-MS	51.0 ug/L	0.100	100113
	Sodium	76.50 mg/L	0.040	11102
	Non-Filt Res.	59 mg/L	3.000	10406
	Ammonia-N	100.000 mg/L	0.002	07555
	T.Nickel ICP-MS	3.9 ug/L	0.100	100117
	NO3-N+NO2-N	0.055 mg/L	0.008	07110
	T.Lead ICP-MS	5.3 ug/L	0.200	100145
	pH	7.20 pH	0.050	10301
	Sulphate	36.0 mg/L	3.000	16306
	T. Iron	1240 ug/L	20.000	26004
	T-Phosphorous	23.600 mg/L	0.002	15403
	T.Zinc ICP-MS	140.0 ug/L	0.500	100121