



DIAND Nunavut District
Box 100
Iqaluit, NT
XOA OHO

Your file Votre référence

Our file Notre référence

October 18, 1996

B9545-5-N5L4-1447

Mrs. Rita Mike
Senior Administrative Officer
Hamlet of Pangnirtung
Pangnirtung, NT
XOA ORO



Dear Mrs. Mike;

Re: Water Quality Results: July 17, 1996 Inspection

1. Please find enclosed copies of the analytical results from water samples collected during the July 17, 1996 inspection.
2. With the exception of the pH level of water that was being drained from the reservoir (SNP 1447-2), all parameters tested were within the Health and Welfare Canada *Guidelines for Canadian Drinking Water Quality*. The pH of the reservoir water was only slightly below the recommended minimum (6.25 vs. 6.5). Because the reservoir was to be filled with fresh water from the Duval River (pH 6.77), this low pH value should not be of a great concern. However, by copy of this letter, MACA and the Senior Environmental Health Officer will be advised of this matter.
3. Also enclosed are the results of the dump leachate sample collected by your Hamlet Foreman, Tim Diallya, from SNP Station 1447-7. Sampling at this station is a requirement under the licence and the results of which must be provided in next years Annual Report (due March 1, 1997).
4. If you have any questions, please do not hesitate to contact this office at the above address, or by phone at (819)-979-4405.

Sincerely,

Paul Smith
Water Resources Officer
Nunavut District

- cc.
- Nunavut Water Board, Gjoa Haven
 - Water Resources Division, DIAND, YK
 - MACA, Iqaluit (Attn: Rick Armstrong)
 - Senior EHO, BRHB, Iqaluit (Attn: Martin Tonary)

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

To: Indian & Northern Affairs Canada
Water Resources\NAP
Baffin District Office
Box 100
==> Iqaluit NT X0A 0H0
Paul Smith

RECEIVED

AUG 21 1996

SAMPLE INFORMATION

Our Lab # : 961065
Your Sample ID: 1447-1
Sample Matrix : water

Account No.: Baffin

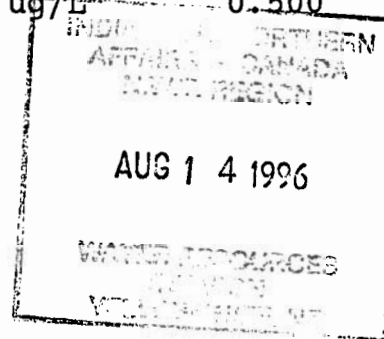
Collection:
Location: ~~Iqaluit sample leachate~~
Date: 07/17/96
By: PS

Report Date: 08/13/96

Approved by: W. C. C.

- SAMPLE ANALYSIS REPORT -

Lab#	Parameter	Result Units	Detect Limit	Method Code
961065	Alkalinity	1.0 mg/L	0.300	10101
	Calcium	0.26 mg/L	0.040	20103
	T.Cadmium ICP-MS	LO.1 ug/L	0.100	100133
	Chloride	0.55 mg/L	0.080	17206
	Colour	L5 Colour	5.000	02021
	Conductivity	5.9 uS/cm	0.100	02041
	T.Cobalt ICP-MS	0.1 ug/L	0.100	100115
	T.Chromium ICP-MS	LO.2 ug/L	0.200	100111
	T.Copper ICP-MS	0.4 ug/L	0.100	100119
	Filt.Residue	L10 mg/L	10.000	10451
	Tot.Hardness	1.1 mg/L	0.100	10602
	Potassium	0.06 mg/L	0.050	19106
	Magnesium	0.12 mg/L	0.010	12102
	T.Manganese ICP-MS	3.3 ug/L	0.100	100113
	Sodium	0.46 mg/L	0.040	11102
	Non Filt Residue	8 mg/L	3.000	10406
	T.Nickel ICP-MS	0.3 ug/L	0.100	100117
	T.Lead ICP-MS	L2 ug/L	0.200	100145
	pH	6.77 pH	0.050	10301
	T.Iron	116 ug/L	20.000	26004
	T.Mercury-C/V	Not Requ'd ug/L	0.010	80011
	Turbidity	1.7 NTU	0.100	02081
	T.Zinc ICP-MS	2.2 ug/L	0.500	100121



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Paul Smith

RECEIVE

AUG 21 1996

SAMPLE INFORMATION

Our Lab # : 961066
Your Sample ID: 1447-2
Sample Matrix : water

Collection:
Location: ~~Iqaluit dump Leachate~~
Date: 07/17/96
By: PS

AUG 11 4 1996

Account No.: Baffin

Report Date: 08/13/96

Approved by: *[Signature]*

- SAMPLE ANALYSIS REPORT -

Lab#	Parameter	Result Units	Detect Limit	Method Code
961066	Alkalinity	1.8 mg/L	0.300	10101
	Calcium	0.91 mg/L	0.040	20103
	T.Cadmium ICP-MS	L0.1 ug/L	0.100	100133
	Chloride	2.35 mg/L	0.080	17206
	Colour	L5 Colour	5.000	02021
	Conductivity	20.5 uS/cm	0.100	02041
	T.Cobalt ICP-MS	0.1 ug/L	0.100	100115
	T.Chromium ICP-MS	L0.2 ug/L	0.200	100111
	T.Copper ICP-MS	0.7 ug/L	0.100	100119
	Filt.Residue	16 mg/L	10.000	10451
	Tot.Hardness	4.1 mg/L	0.100	10602
	Potassium	0.19 mg/L	0.050	19106
	Magnesium	0.44 mg/L	0.010	12102
	T.Manganese ICP-MS	8.1 ug/L	0.100	100113
	Sodium	1.57 mg/L	0.040	11102
	Non Filt Residue	L3 mg/L	3.000	10406
	T.Nickel ICP-MS	0.4 ug/L	0.100	100117
	T.Lead ICP-MS	L2 ug/L	0.200	100145
	pH	6.25 pH	0.050	10301
	T.Iron	39 ug/L	20.000	26004
	T.Mercury-C/V	Not Requ'd ug/L	0.010	80011
	Turbidity	0.9 NTU	0.100	02081
	T.Zinc ICP-MS	3.6 ug/L	0.500	100121

I. IAN & NORTHERN AFFAIRS
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To: Hamlet of Pangnirtung
c/o DIAND Water Resources \NAP
Baffin District Office
Box 100
==> Iqaluit NT X0A 0H0
Paul Smith

RECEIVED

SEP 16 1996

D.I.A.N.D.
Iqaluit, NT

SAMPLE INFORMATION

Our Lab # : 961068
Your Sample ID: 1447-7
Sample Matrix : water

Account No.: Baffin

Collection:
Location: Pangnirtung
Date: 07/17/96
By: PS/TD

Report Date: 08/21/96

Approved by: Heed

- SAMPLE ANALYSIS REPORT -

Lab#	Parameter	Result Units	Detect Limit	Method Code
961068	Calcium	496.00 mg/L	0.040	20103
	T.Cadmium ICP-MS	0.6 ug/L	0.100	100133
	Conductivity	4.3 uS/cm	0.100	02041
	T.Cobalt ICP-MS	25.2 ug/L	0.100	100115
	T.Chromium ICP-MS	7.5 ug/L	0.200	100111
	T.Copper ICP-MS	80.2 ug/L	0.100	100119
	Potassium	89.40 mg/L	0.050	19106
	Magnesium	99.70 mg/L	0.010	12102
	T.Manganese ICP-MS	5800.0 ug/L	0.100	100113
	Sodium	287.00 mg/L	0.040	11102
	Ammonia-N	53.100 mg/L	0.002	07562
	T.Nickel ICP-MS	36.7 ug/L	0.100	100117
	Nitrate+Nitrite-N	0.030 mg/L	0.008	07110
	Oil&Grease	0.70 mg/L	0.200	06524
	T.Lead ICP-MS	6.2 ug/L	0.200	100145
	pH	7.05 pH	0.050	10301
	Phenols	L2 ug/L	2.000	06533
	Sulphate	1060.0 mg/L	3.000	16306
	T.Iron	39400 ug/L	20.000	26004
	T.Mercury-C/V	L0.01 ug/L	0.010	80011
	T-Phosphorous	1.480 mg/L	0.002	15403
	T.Zinc ICP-MS	1800.0 ug/L	5.000	100121