



DIAND NWT Region
Box 100
Iqaluit, NT
XOA OHO

October 27, 1994

Mr. Johathan Palluq
Senior Administrative Officer
Municipality of Clyde River
Clyde River, NT
XOA OEO

Your file Votre référence

Our file Notre référence
B9545-5-C97

Clyde River

Dear Mr. Palluq;

Re: Water Analysis Results; August 6, 1994 Inspection

1. Attached, for your information, are the results from the analysis of the water samples collected during my August 6, 1994 inspection.
2. The results indicate that the drinking water meets the Canadian Health and Welfare Drinking Water Guidelines for the parameters tested for. The pH was slightly below the recommended levels, but this should not raise any concern.
3. Sewage samples were also collected as per the Hamlet Council's request (via MACA). The samples were, among other parameters, tested for oil and grease. The results indicate that only a very small amount of oil and grease is present in the sewage run-off.
4. Please also find attached a bilingual (Inuktitut / English) information package that will explain the various parameters that were tested for.
5. Also enclosed for your information is a copy of the Canadian Health and Welfare Guidelines.
6. If you have any questions, please do not hesitate to contact this office.

Sincerely,

Paul Smith
Water Resources Officer
Nunavut District



- cc. - Water Resources, YK (B. Collins)
- Public Health, BRHB (D. Paradis)
- MACA, Iqaluit (R. Armstrong)

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

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

SAMPLE INFORMATION

Our Lab # : 941494
Your Sample ID: CR-01
Sample Matrix : water

Account No.: Baffin

Collection:
Location: Clyde River
Date: 08/06/94
By: PS

Report Date: 10/18/94

Approved by: J. Q.

- SAMPLE ANALYSIS REPORT -

Lab#	Parameter	Result Units	Detect Limit	Method Code
941494	Alkalinity	3.0 mg/L	0.300	10101
	Calcium	0.68 mg/L	0.040	20103
	T.Cadmium ICP-MS	LO.1 ug/L	0.100	100133
	Chloride	2.22 mg/L	0.080	17206
	Colour	L5 Colour	5.000	02021
	Conductivity	21.4 uS/cm	0.100	02041
	T.Cobalt ICP-MS	LO.1 ug/L	0.100	100115
	T.Chromium ICP-MS	LO.2 ug/L	0.200	100111
	T.Copper ICP-MS	1.2 ug/L	0.100	100119
	Filt.Residue	13 mg/L	10.000	10451
	Tot.Hardness	4.3 mg/L	0.100	10602
	Potassium	0.43 mg/L	0.050	19106
	Magnesium	0.50 mg/L	0.010	12102
	T.Manganese ICP-MS	1.6 ug/L	0.100	100113
	Sodium	1.96 mg/L	0.040	11102
	Non-Filt. Res.	L3 mg/L	3.000	10406
	T.Nickel ICP-MS	0.1 ug/L	0.100	100117
	NO3-N+NO2-N	LO.008 mg/L	0.008	07110
	T.Lead ICP-MS	0.6 ug/L	0.200	100145
	pH	6.45 pH	0.050	10301
	T.Arsenic-Hyd.	LO.3 ug/L	0.300	33011
	T. Iron	62 ug/L	20.000	26004
	T.Mercury-C/V	LO.02 ug/L	0.020	80011
	T-Phosphorous	0.006 mg/L	0.002	15403
	Turbidity	2.3 NTU	0.100	02081
	T.Zinc ICP-MS	0.8 ug/L	0.500	100121

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To: Water Resources
Water Resources\NAP
Baffin District Office
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==> Iqaluit NT X0A 0H0
Paul Smith

SAMPLE INFORMATION

Our Lab # : 941495
Your Sample ID: CR-05
Sample Matrix : water

Account No.: Baffin

Collection:
Location: Clyde River
Date: 08/06/94
By: PS

Report Date: 10/05/94

Approved by: 7. 6

- SAMPLE ANALYSIS REPORT -

Lab#	Parameter	Result Units	Detect Limit	Method Code
941495	Ammonia-N	14.500 mg/L	0.002	07555
	NO3-N+NO2-N	1.440 mg/L	0.008	07110
	Oil&Grease	0.70 mg/L	0.200	06524
	Phenols	26 ug/L	2.000	06533
	T-Phosphorous	1.310 mg/L	0.002	15403
	Turbidity	22.7 NTU	0.100	02081



Indian and Northern
Affairs Canada
DIAND NWT Region
Box 100
Iqaluit, NT
XOA OHO

Affaires indiennes
et du Nord Canada

August 22, 1994

Mr. Johnathan Palluq
Senior Administrative Officer
Municipality of Clyde River
Clyde River, NT
XOA OEO

Your file Votre référence

B9545-5-C97
Our file Notre référence

*Clyde River
WB
MACA*

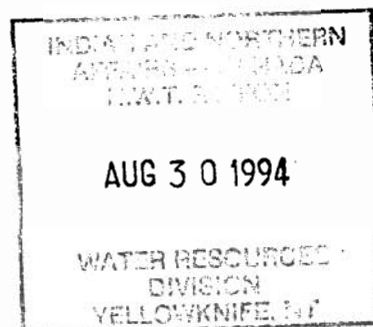
Dear Mr. Palluq;

Re: Water Management Inspection Report; Municipality of
Clyde River.

1. Please note the copy of the Water Management Inspection Report, prepared by our Water Resources Officer, Paul Smith.
2. We suggest that the lack of warning signs at both the waste disposal and potable water facilities is a concern that should be addressed and alleviated.
3. The results from the water sampling will be forwarded to you once they have been received and reviewed by our office.
4. Also attached is some information that may assist you in your application to the NWT Water Board for a Water Licence. Our office will be pleased to answer any further questions that you may have.
6. The assistance and cooperation provided by yourself and Mr. David Arreak, Hamlet Foreman, to Mr. Smith during his recent visit to your community was greatly appreciated.

Sincerely,

JMA Theriault
District Manager
Nunavut District



- cc. - Water Resources, YK (B. Collins)
- Public Health, BRHB (D. Paradis)
- MACA, Iqaluit (R. Armstrong)

MUNICIPAL WATER USE INSPECTION FORM

DATE: Aug. 5, 1994 MUNICIPAL REP.: David Arreola
 LI NSEE: Elyde River LICENCE #: Unlicensed
Community

WATER SUPPLY

Source(s): Reservoir Quantity Used (to date): ~ 20,000 m³/yr.
 (estimate or actual)
 Owner/Operator: Macra/Hamlet

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable

Intake Facilities: A Storage Struct. N/A Treatment Systems A Chem. Storage D
 Flow Meas. Device A Convey. Lines N/A Pumping Station N/A
 Comments: No concerns noted.

WASTE DISPOSAL

Sewage: Sewage Treatment System (primary, secondary or tertiary) No treatment system
 Natural Water Body _____ Continuous Discharge (land or water) overland to sea
 Seasonal Discharge _____ Wetlands Treatment _____ Trench _____
 Solid Waste: Owner/Operator: Macra/Hamlet
 Landfill _____ Burn & Landfill ☒ Other _____

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable

Discharge Quality N/A Decant Structures N/A Erosion N/A
 Disch. Meas. Dev. N/A Dyke Inspections N/A Seepages N/A
 Dams, Dykes _____ Freeboard N/A Spills N/A
 Construction See note O & M Plan N/A A & R Plan N/A

Periods of Discharge: _____ Effluent Discharge Rate: _____

Comments: The sewage lagoon is still under construction. It is planned that the facility will be complete by early September. Some piping that is required is coming in on sea lift later this month.

FUEL STORAGE Owner GNWT Operator Manimicut Condition of Tanks Very repaired
 Berms & Liners Being rebuilt Water within berm: N/A Evidence of Leaks no
 Drainage Pipes N/A Pump Station and Catchment Berm _____
 Pipeline Condition New Not Applicable: ☒

SURVEILLANCE NETWORK PROGRAM

Samples Collected: (Hamlet) Not required
 (DIAND) Water Reservoir, sewage effluent
 Signs Posted: SNP Not required Warning Signs are ready, but have not
 Records & Reporting: Hamlet maintains water delivery been posted.
records. No reporting requirements.
 Geotechnical Inspection: N/A

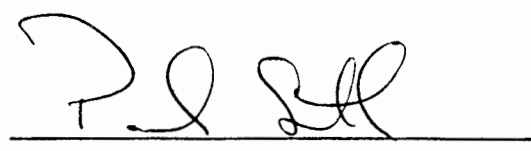
Non-Compliance of Act or Licence: The Hamlet is unlicensed. Licensing requirements and procedures were discussed with the Senior Administrative Officer - Jonathan Pilling.

Page 2 attached ☒ Yes ☐ No

Senior Administrative Officer
 Licensee Representative's Title

Paul Smith
 Inspector's Name


 Licensee Representative's Signature


 Inspector's Signature

MUNICIPAL WATER USE INSPECTION FORM
(continued)

Date: Aug. 5, 1994

Licence #: Unlicensed

Official Onsite Discussion/Comments:

The abandoned waste disposal site is presently
be covered. The slopes were being contained.

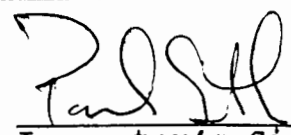
Sewage is still dumped in this area, and will continue
to be used until the new lagoon is brought on-line.

Presently, the sewage is dumped into a creek bed that
flows to the ^(approx 500m) sea. There is some "wetlands" treatment
as the sewage flows overland.

Gyr Construction is in town renovating the bulk fuel
Storage Facility. Gyr Construction (water licence #SL1-1621)
has disposed of the sludge material at the waste
disposal site. However, they have not placed this
waste ~~with~~ in the waste oil storage area used by
the Hamlet. Gyr Const. will be asked to relocate
this material.

Discussions were also held with the Hamlet Foreman, David
Arreak, of the possibilities of constructing a bermed
area for the Hamlet's waste oil. Mr. Arreak was
hoping that there would be some impermeable membrane
left over from Gyr Construction that they could incorporate
into the storage area.


Licensee Representative's Signature


Inspector's Signature

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To: Hamlet of Clyde River
c/o Water Resources/NAP
Baffin District Office
Box 100
==> Iqaluit NT X0A 0H0
Paul Smith

SAMPLE INFORMATION

Our Lab # : WL931327
Your Sample ID: M-CR-04
Sample Matrix : water

Account No.: Baffin

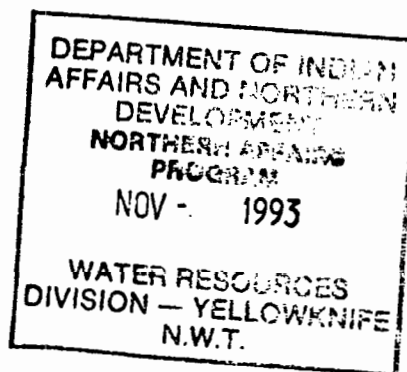
Collection:
Location: run off waste disposal
Date: 08/05/93
By: PS

Report Date: 10/21/93

Approved by: W. Coe

- SAMPLE ANALYSIS REPORT -

Lab#	Parameter	Result Units	Detect Limit	Method Code
WL931327	T.Cadmium-S/E	LO.2 ug/L	0.200	48302
	T.Chromium-S/E	1 ug/L	1.000	24303
	T.Iron-S/E	72 ug/L	5.000	26305
	T.Nickel-S/E	1 ug/L	1.000	28302
	T.Lead-S/E	LO.7 ug/L	0.700	82302
	T.Zinc-S/E	L1 ug/L	1.000	30305



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To: Hamlet of Clyde River
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Paul Smith

SAMPLE INFORMATION

Our Lab # : WL931325
Your Sample ID: M-CR-01
Sample Matrix : water

Account No.: Baffin

Collection:
Location: raw water Clyde R.
Date: 08/05/93
By: PS

Report Date: 10/27/93

Approved by: W. Loach

- SAMPLE ANALYSIS REPORT -

Lab#	Parameter	Result Units	Detect Limit	Method Code
WL931325	Alkalinity	1.1 mg/L	0.300	10101
	Calcium	L1 mg/L	0.040	20103
	Chloride	3.41 mg/L	0.080	17206
	Colour	L5 Colour	5.000	2011
	Sp. Conduct	23.1 uS/cm	0.100	2041
	Filt. Residue	13 mg/L	10.000	10451
	Tot. Hardness	L4 mg/L	0.100	10602
	Potassium	0.30 mg/L	0.050	19106
	Magnesium	0.50 mg/L	0.010	12102
	Sodium	2.10 mg/L	0.040	11102
	Non-Filt Res.	7 mg/L	3.000	10406
	NO3+NO2-N	L0.008 mg/L	0.008	7110
	pH	6.38 pH	0.050	10301
	Sulphate	L3 mg/L	3.000	16306
	T. Arsenic-Hyd.	L0.3 ug/L	0.300	33011
	T. Cadmium-S/E	L0.2 ug/L	0.200	48302
	T. Chromium-S/E	L1 ug/L	1.000	24303
	T. Copper-S/E	L1 ug/L	1.000	29305
	T. Iron-S/E	105 ug/L	5.000	26305
	T. Nickel-S/E	L1 ug/L	1.000	28302
	T. Lead-S/E	L0.7 ug/L	0.700	82302
	T. Phosphorous	0.006 mg/L	0.002	15403
	Turbidity	1.4 NTU	0.100	2081
	T. Zinc-S/E	2.0 ug/L	1.000	30305