

DIAND Nunavut District
Box 100
Iqaluit, NT
XOA OHO

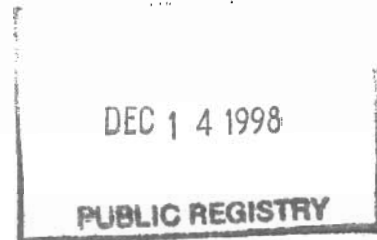
Your file Votre référence

Our file Notre référence

November 30, 1998

NWB3TAL

Mr. David Irquit
A/Senior Administrative Officer
Hamlet of Taloyoak
Taloyoak, NT
XOE 1B0



Dear Mr. Irquit;

**Water Management Inspection; August 25, 1998
and Results of Water Samples Collected.**

1. Please find enclosed the inspection report prepared as a result of the water management inspection carried out on August 25, 1998. In addition, also enclosed are the analytical results of water samples collected during the inspection.
2. As the Hamlet has now applied for a water licence, my main concern has been addressed. There remain only some operational problems which the Hamlet can work to resolve.
3. To summarize the inspection report, the areas that the Hamlet is asked to address relate to:
 - placing a fence (with appropriate warning signs) along the shore of the water lake where the community is close. The purpose of the fence would be to reduce wind blown garbage and traffic from impacting on the quality of the water supply.
 - obtaining a waste oil furnace to dispose of the accumulated waste oil.
 - placing a thin granular cap on the dump on an annual basis to reduce wind blown material and to improve on the aesthetics and health & safety aspects of the site.
 - warning signs are required at the dump and sewage waste disposal sites.

.../2

4. With respect to the analytical results of water samples collected during the inspection, I collected three samples. One set was raw potable water, one set was sewage effluent (where it enters the ocean) and the final set was runoff from the dump (leachate). There were no concerns with the raw water. The sewage effluent sample returned very low levels of ammonia and suspended solids. This likely indicates that there is significant natural treatment of sewage before it discharges into the ocean.
5. If you have any questions about the inspection report or about the analytical results, please do not hesitate to contact me at the above address or by phone at (867)979-4405.

Sincerely,



Paul Smith
Water Resources Officer
Nunavut District

- cc.
- Nunavut Water Board, Gjoa Haven
 - DIAND Water Resources, YK
 - Kojo Kumi, MACA, Cambridge Bay
 - Bob Philips, Environmental Health, Yellowknife



MUNICIPAL WATER USE INSPECTION FORM

DATE: August 25, 1998 COMPANY REP.: Elwood Johnston (SFO)
LICENSEE: Hamlet of Taloyoak LICENCE #: Unlicensed

WATER SUPPLY

Source (s): Water Lake Quantity Used (to date): ~ 50 m³/day
Owner/Operator: Hamlet (estimate or actual)

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

Intake Facilities: A Storage Structure N/A Treatment Systems A Chem. Storage A
Flow Meas. Device A Convey. Lines A Pumping Stations A

Comments: The only concern with the water supply remains its proximity to the community (Northern Stores is within several metres). Fencing + warning signs are required.

WASTE DISPOSAL

Sewage Sewage Treatment System (primary, secondary or tertiary) Primary settling, probably tertiary by the time it gets to ocean
Natural Water body _____ Continuous Discharge (land or water) _____
Seasonal Discharge _____ Wetlands Treatment ✓ Trench _____

Solid Waste: Owner/Operator: Hamlet
Landfill _____ Burn & Landfill ✓ Other _____

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

Disch. Quality A Decant Structure N/A Erosion N/A
Disch. Meas. Dev. N/A Dyke Inspection N/A Seepages N/A
Dams, Dykes N/A Freeboard N/A Spills note below
Construction N/A O & M Plan N/A A & R Plan Nil

Periods of Discharge: Seasonal Effluent Discharge Rate: twice Unknown

Comments: Dump needs to be capped (covered w/ granular material). NTPC spill in the process of being cleaned up (but going slowly). A pad had been constructed for a liner so that contaminated soils could be contained. New sewage discharge chutes in place.

FUEL STORAGE

Owner: _____ Operator: _____ Condition of Tanks: _____

Berms & Liners: _____ Water within berm: _____ Evidence of Leaks: _____

Drainage Pipes: _____ Pump Station and Catchment Berm: _____

Pipeline Condition: _____ Not Applicable: _____

SURVEILLANCE NETWORK PROGRAM

Samples Collected: (Hamlet) _____

(DIAND) Raw water, sewage effluent, dump leachate

Signs Posted: SNP Not required @ this time Warning Required

Record & Reporting N/A

Geotechnical Inspection: N/A

Non-Compliance of Act or Licence: Hamlet is unlicensed, but committed to submitting an application.

Page 2 attached Yes _____ No ✓

Licensee Representatives Title

N/A

Licensee Representatives Signature

Inspectors Name

Paul Smith
Paul Smith

Inspectors Signature

TAIGA ENVIRONMENTAL LABORATORY

Dept. Indian Affairs & Northern Development

4601-52 nd Ave., Box 1500

Yellowknife, NT. X1A 2R3

Tel. (867) 669-2788

Fax: (867) 669-2718

To: NUNAVUT

WATER RESOURCES, NAP, DIAND

BOX 100

IQALUIT

X0A 0H0

Att'n: PAUL SMITH

LAB# 981428

SAMPLE INFORMATION

Our Lab#: 981428

PROJECT: INSPECTION

Your Sample ID: SEWAGE EFFLUENT

Sample Matrix: SEWAGE

Collection:

Received Date: Aug-28-1998

Location: TALOYOAK

Report Date: 11-Sep-98

Date: 8/25/1998

Approved By: W. Taylor

By: P.Smith

- SAMPLE ANALYSIS REPORT -

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
981428						
	Tot-Suspended-Solids	4	mg/L	3	9/10/1998	grav
	Ammonia-N	0.013	mg/L	0.002		007562
	Tot-Cadmium(ICP-MS)	LO.1	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Cobalt(ICP-MS)	0.3	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Chromium(ICP-MS)	2.6	ug/L	2.0	9/2/1998	ICP-MS
	Tot-Copper(ICP/MS)	3.2	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Iron(AA)	0.590	mg/L	0.020	9/1/1998	ICP-MS
	Tot-Manganese(ICP-MS)	36.8	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Nickel(ICP-MS)	2.6	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Lead(ICP-MS)	LO.2	ug/L	0.2	9/2/1998	ICP-MS
	Tot-Zinc(ICP-MS)	23.2	ug/L	10.0	9/2/1998	ICP-MS

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To: NUNAVUT
WATER RESOURCES, NAP, DIAND
BOX 100
IQALUIT
X0A 0H0
Att'n: PAUL SMITH

LAB# 981430

SAMPLE INFORMATION

Our Lab#: 981430
Your Sample ID: RAW WATER
Sample Matrix: WATER

PROJECT: INSPECTION

Collection:

Location: GJOA HAVEN
Date: 8/24/1998
By: P.Smith

Received Date: Aug-28-1998

Report Date: 11-Sep-98

Approved By: W. C. G.

- SAMPLE ANALYSIS REPORT -

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
981430	pH	7.89	pH	0.05	8/28/1998	010301
	Colour	10		5.0	8/28/1998	02021
	Conductivity	265	uS/cm	0.3	9/4/1998	02041
	Alkalinity	89.2	mg/L	0.3	9/4/1998	010101
	Tot-Suspended-Solids	6	mg/L	3	9/10/1998	grav
	Tot-Cadmium(ICP-MS)	L0.1	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Cobalt(ICP-MS)	0.1	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Chromium(ICP-MS)	L2	ug/L	2.0	9/2/1998	ICP-MS
	Tot-Copper(ICP/MS)	1.4	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Manganese(ICP-MS)	8.9	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Iron(AA)	0.470	mg/L	0.020	9/1/1998	ICP-MS
	Tot-Nickel(ICP-MS)	0.7	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Lead(ICP-MS)	0.2	ug/L	0.2	9/2/1998	ICP-MS
	Tot-Zinc(ICP-MS)	L10	ug/L	10.0	9/2/1998	ICP-MS

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WATER RESOURCES, NAP, DIAND

BOX 100

IQALUIT

X0A 0H0

Att'n: PAUL SMITH

LAB# 981431

SAMPLE INFORMATION

Our Lab#: 981431

PROJECT: INSPECTION

Your Sample ID: DUMP LEACHATE

Sample Matrix: WATER

Collection:

Location: GJOA HAVEN

Date: 8/24/1998

By: P.Smith

Received Date: Aug-28-1998

Report Date: 11-Sep-98

Approved By: 

- SAMPLE ANALYSIS REPORT -

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
981431	Tot-Suspended-Solids	34	mg/L	3	9/10/1998	grav
	Ammonia-N	27.6	mg/L	0.002		007562
	Tot-Mercury(water)	10.01	ug/L	0.01	8/31/1998	080314
	Tot-Cadmium(ICP-MS)	2.1	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Cobalt(ICP-MS)	1.9	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Chromium(ICP-MS)	8.2	ug/L	2.0	9/2/1998	ICP-MS
	Tot-Copper(ICP/MS)	84.2	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Manganese(ICP-MS)	534	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Iron(AA)	5.84	mg/L	0.020	9/1/1998	ICP-MS
	Tot-Nickel(ICP-MS)	17.8	ug/L	0.1	9/2/1998	ICP-MS
	Tot-Lead(ICP-MS)	54.1	ug/L	0.2	9/2/1998	ICP-MS
	Tot-Zinc(ICP-MS)	1260	ug/L	10.0	9/2/1998	ICP-MS