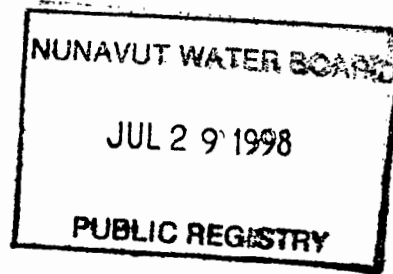


DIAND Nunavut District  
Box 100  
Iqaluit, NT  
XOA OHO

July 22, 1998

Mr. Dan Leaman  
Senior Administrative Officer  
Hamlet of Resolute Bay  
Resolute Bay, NT  
XOA OVO



Your file    Votre référence

Our file    Notre référence

B9545-5-N4L4-1571

COPY

Dear Mr. Leaman;

**Re:    Water Licence Inspection - June 26, 1998**  
**Water Licence N4L4-1571 - Hamlet of Resolute Bay**

**Ref:**    - Your letter (and attachments) to the NWB dated June 30, 1998.  
          - My letter to you dated October 21, 1997.

1.        Please find attached a copy of the inspection report prepared as a result of the water licence inspection carried out on licence N4L4-1571 issued to the Hamlet of Resolute Bay.
2.        There are a number of outstanding issues that we discussed during my recent visit. To summarize, the following issues must be addressed:

**Part B, Item 1** of the licence states that the annual report must be submitted prior to March 31st of the year following the year that is being reported on. At the time of the inspection this report had yet to be submitted. I note that Mr. Alexander has submitted information to the Board attached to your letter. This report will be reviewed for completeness under separate cover.

**Part B, Item 5** of the licence states that the necessary station signs that denote sampling points were required to be placed within 2 months of the licence being issued. As the licence was renewed in July of 1996, these signs should have been placed 2 years ago. Last year Mr. Alexander and I located an appropriate sample site for 1571-5 (dump leachate) and collected a sample. At that time I advised Mr. Alexander that it was necessary to permanently 'fix' this site with a sign such that samples could always be collected at the same location. This was not done and now a new sampling station will have to be determined. Run-off levels were low and it was not apparent where last year's sample was collected. Had there been an SNP station sign, it just be a matter of stating that there was no visible flow in which case no sample would have to be collected.

.../2

**Part C, Item 2** of the licence states that the maximum amount of water to be withdrawn from Char Lake shall not exceed 65,000 m<sup>3</sup> per year. In the documents submitted to the NWB on June 30, 1998, it is noted that the Hamlet exceeded the permitted amount of water by 1,651 m<sup>3</sup> and that an amendment has been requested by the Hamlet to increase the permitted amount. While this is the correct course of action, the request should have been made last year once it became clear that licence limits would be exceeded.

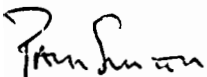
**Part D, Item 5** of the licence states that the NWB must approve of the waste disposal site. As the Hamlet is nearing the formal approval from the GNWT to establish a new dump site, the Hamlet must also gain the Board's approval. All relevant details, including location, should be sent to the Board as soon as possible so that there will be no delays.

**Part F, Item 1** of the licence states that an **Abandonment and Restoration Plan** must be submitted to the Board (for approval) at least 6 months prior to actually abandoning any waste disposal facilities. This plan should be prepared and submitted without delay, as I advised Mr. Alexander last year. The various issues that have to be dealt with under this plan are listed in this section of the licence.

**Part H, Item 1** of the licence states that an **Operation and Maintenance Plan** (for the waste disposal site) was to have been submitted within six months of the issuance of the licence (ie. January 1, 1998). **This is an outstanding issue which must be immediately addressed as the Hamlet is placing itself in a position of non-compliance with the water licence.** Please note that all aspects of the plan are listed in this section of the licence. In addition, the Nunavut Water Board has put together a working manual which can be requested and would provide additional assistance as it provides a detailed description of what the Board considers essential in such plans.

3. Also attached are the results from the sewage sample that I collected at SNP Station 1571-3. I was not able to collect a BOD<sub>5</sub> sample, but the results for Suspended Solids are well with licence limits.
4. Please advise this office of the Hamlet's intentions with the above noted deficiencies.
5. Should you have any questions with the inspection report or the obligations that the Hamlet is required to meet, 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
  - MACA, Iqaluit (Doug Sitland)
  - Environmental Health Officer, Iqaluit (Nicole Ritchie)



## MUNICIPAL WATER USE INSPECTION FORM

DATE: June 26, 1998 COMPANY REP: Ralph Alexander  
LICENSEE: Hamlet of Resolute Bay LICENCE #: N464-1571

### WATER SUPPLY

Source (s): Char Lake Quantity Used (to date): ~ 42,000 m<sup>3</sup>  
(estimate or actual)

Owner/Operator: DAW / DPW

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

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

Comments: See page 2

### WASTE DISPOSAL

Sewage Sewage Treatment System (primary, secondary or tertiary) Dilution only

Natural Water body Continuous Discharge (land or water) to ocean

Seasonal Discharge Wetlands Treatment Trench

Slid Waste: Owner/Operator: to GNWT / 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. A Dyke Inspection N/A Seepages N/A

Dams, Dykes N/A Freeboard N/A Spills N/A

Construction N/A O & M Plan Note 1 A & R Plan Note 2

Periods of Discharge: Effluent Discharge Rate: ~ 2.2/s

Comments: See page 2

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

Imples Collected: (Hamlet) to

(DIAND) 1571-3

Signs Posted: SNP Required Warning Required @ dump

Record & Reporting 1997 Annual Report was submitted shortly after this

inspection

Geotechnical Inspection: not Required

Non-Compliance of Act or Licence: Exceeded permitted amount of water withdrawn from Char

Lake in 1997. 1997 Annual Report not submitted on time. O&M plan has

not been submitted. Hamlet will be moving dump site - have yet to submit

an A&R plan

Page 2 attached Yes ✓ No

Licensee Representatives Title Not Required Inspectors Name Paul Smith

Licensee Representatives Signature Not Required Inspectors Signature Paul Smith

## Inspection Report

Hamlet of Resolute Bay  
N4L4-1561

Page 2

### Water Supply

Last year the Hamlet used 66,651 m<sup>3</sup> of water - slightly in excess of the permitted amount (65,000 m<sup>3</sup>). To date, the Licensee has used 42,000 m<sup>3</sup> of water and if this rates continues, the permitted amount will again be exceeded. Mr. Alexander said that the excessive volumes were due primarily to significant leaks in the utilidor system. The majority of these leaks have been repaired and it is expected that the rate of consumption will decrease and that year end totals will be well below 80,000 m<sup>3</sup>.

The Licensee was advised that they must contact the NWB to ask either for an emergency amendment or to have their limits permanently increased.

Given the amount of water withdrawn last year and the year-to-date volume withdrawn this year, it would appear Char Lake can handle the demand as recharge as been sufficient enough that there is runoff from the lake.

### Dump

It appears that the Hamlet and Arctic Airports are nearing an agreement for establishing a new waste disposal site.

History - When MOT (Federal) transferred the Resolute Airport to Arctic Airports, the waste disposal facility was not transferred because MOT was required to do a site assessment/clean-up prior to it being transferred. The result was that the dump was no longer available for waste disposal. Users of this site then had little choice but to use the Hamlet's dump site. The Hamlet had objections with this arrangement because they felt their site was getting to close to the ocean and that a new waste disposal site would be more appropriate. After some discussions, the GNWT release a parcel of land to the Hamlet adjacent to the abandoned MOT dump site. Nothing has been formalized at this point, but it appears that this will be the location of the new waste disposal site.

### Note 2

The Licensee is aware of the requirement that an A+R plan must be submitted to the NWB for approval 6 moths prior to the abandonment. They were formally advised of this requirement during the 1997 inspection. To date, they have yet to begin preparing this document for submission. Additionally, when the approvals are in place from the GNWT to start using the new site, The Licensee should request the Board's approval to start using this new site once GNWT approvals are finalized.

.../3

Note 1

Likewise, the Licensee has not prepared an O+M plan for the operation of the present dump nor were they yet planning to have an O+M plan for the new site. The Licensee is advised to contact the NWB to obtain their guidelines for the preparation of an O+M plan.

The Annual Report had not been submitted, although all of the information required had been accumulated with the intention of submitting it. Mr. Alexander stated that he would be sending the report to the Board shortly.

A warning sign is required at the current dump site.



**TAIGA ENVIRONMENTAL LABORATORY**

Dept. Indian Affairs &amp; 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# 980889

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**SAMPLE INFORMATION**

Our Lab#: 980889

PROJECT:

Your Sample ID: 1571-3

Sample Matrix: WATER

## Collection:

Location: RESOLUTE (HAMLE

Date: 26/06/1998

By: P.SMITH

Received Date: 02-July-98

Report Date: 14-Jul-98

Approved By: *Kathleen Piquel*

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**- SAMPLE ANALYSIS REPORT -**

Lab#	Test	Result	Units	Detection Limit	Analysis Date	Analytical Method
980889	Ammonia-N	0.436	mg/L	0.002	07/07/1998	007562
	Tot-Suspended-Solids	15	mg/L	3	06/02/1998	grav

JUL 20 1998

D.I.A.N.D.  
IQALUIT, NT

20/7