

DIAND Nunavut District
Box 100
Iqaluit, NT
XOA OHO

Your file: Votre référence:

Our file: Notre référence:

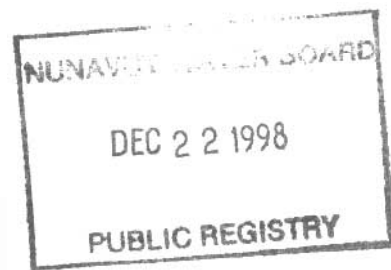
December 9, 1998

N4L3-0640

Mr. Don Pickle
Senior Administrative Officer
Hamlet of Qikiqtarjuak
Qikiqtarjuak, NT
XOA OBO

Dear Mr. Pickle,

**Inspection Report; August 11, 1998
& Analytical Results; Licence N4L3-0640**



1. Please find enclosed an inspection report prepared as a result of the water licence inspection carried out on August 11, 1998 on licence N4L3-0640 held by the Hamlet of Qikiqtarjuak.

2. A number of issues have been addressed since the last inspection. There remain only a couple more outstanding issues that require to be addressed. They are as follows:

Part H, Item 1 requires an Operation and Maintenance (O&M) Manual to be prepared for the waste disposal site, and;

SNP, Part B, Item 1 requires an annual sewage sample to be collected from the lagoon.

3. The Nunavut Water Board has prepared a manual for the preparation of O&M plans. If you have not already done so, please contact them for this document.

4. With respect to the sewage sampling, as Part D, Item 4 of the licence requires the Hamlet to advise the Inspector 10 days prior to the decant being initiated, and as such a complete sample kit could be provided so that this sample could be collected.

5. Two sets of water samples were collected. These are described below:

- 0640-1 (raw water). There are no concerns with any of the parameters collected.

.../2

- 0640-6 (sewage effluent). The 'suspended solids' result is well within licence limits. I would be interested in collecting a sample where sewage effluent enters the ocean. I imagine that there will be a significant improvement due to wetlands treatment.

6. If you have any questions with respect to the inspection report, licence requirements or 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
 - Nicole Ritchie, Environmental Health, Iqaluit, NT
 - Doug Sitland, MACA, Iqaluit



MUNICIPAL WATER USE INSPECTION FORM

DATE: August 11, 1998 COMPANY REP.: Les Kunilus
LICENSEE: Hamlet of Qikiqtarjuaq LICENCE #: N4L3-0640

WATER SUPPLY

Source (s): Tulogah River / Reservoir Quantity Used (to date): ~ 14,000 m³/year
Owner/Operator: GNWT / Hamlet (estimate or actual)

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

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

Comments: Hamlet Foreman is trying to reduce wind blown dust from entering the reservoir. He will be trying a combination of CaCl and snow fencing on critical slope area.

WASTE DISPOSAL

Sewage Sewage Treatment System (primary, secondary or tertiary) 365 day lagoon - primary
Natural Water body _____ Continuous Discharge (land or water) _____
Seasonal Discharge ✓ valve Wetlands Treatment Some Trench _____

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

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

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

Periods of Discharge: Summer/Fall Effluent Discharge Rate: 10-15 l/s
Comments: Erosion: a small trench was dug to divert runoff water from entering the lagoon - this proved effective last year. Hamlet uses a burn bucket to burn contaminated soils, oil, etc. However it leaks quite a bit, should be repaired and area should be cleaned up.

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) Nil
(DIAND) Raw water (0640-1), sewage eff. (0640-5)
Signs Posted: SNP In place Warning In place
Record & Reporting '96 + '97 Annual Reports submitted March 29/98.

Geotechnical Inspection: N/A

Non-Compliance of Act or Licence: O+m plan required, Annual Sewage Sample has to be collected by licensee.

Page 2 attached Yes _____ No ✓

Licensee Representatives Title

N/A

Licensee Representatives Signature

Inspectors Name

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# 981296

SAMPLE INFORMATION

Our Lab#: 981296
Your Sample ID: 0640-1
Sample Matrix: water - grab

Collection:

Location: Broughton Isl.
Date: 11/08/1998
By: P.Smith

PROJECT: SNP

Received Date: 13-Aug-98

Report Date: 25-Aug-98

Approved By: *Karla P. [Signature]*

RECEIVED

AUG 31 1998

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

- SAMPLE ANALYSIS REPORT -

| Lab# | Test | Result | Units | Detection Limit | Analysis Date | Analytical Method |
|--------|-----------------------|--------|-------|-----------------|---------------|-------------------|
| 981296 | Tot-Suspended-Solids | L3 | mg/L | 3 | 14/08/1998 | grav |
| | Tot-Cadmium(ICP-MS) | L0.1 | ug/L | 0.1 | 19/08/1998 | ICP-MS |
| | Tot-Cobalt(ICP-MS) | 0.2 | ug/L | 0.1 | 19/08/1998 | ICP-MS |
| | Tot-Chromium(ICP-MS) | L2 | ug/L | 2.0 | 19/08/1998 | ICP-MS |
| | Tot-Copper(ICP/MS) | L0.1 | ug/L | 0.1 | 19/08/1998 | ICP-MS |
| | Tot-Manganese(ICP-MS) | 1.5 | ug/L | 0.1 | 19/08/1998 | ICP-MS |
| | Tot-Iron(AA) | 0.130 | mg/L | 0.020 | 18/08/1998 | ICP-MS |
| | Tot-Nickel(ICP-MS) | L0.1 | ug/L | 0.1 | 19/08/1998 | ICP-MS |
| | Tot-Lead(ICP-MS) | 0.7 | ug/L | 0.2 | 19/08/1998 | ICP-MS |
| | Tot-Zinc(ICP-MS) | L10 | ug/L | 10.0 | 19/08/1998 | ICP-MS |
| | pH | 6.96 | pH | 0.05 | 14/08/1998 | 010301 |
| | Conductivity | 19.9 | uS/cm | 0.3 | 14/08/1998 | 02041 |
| | Colour | L5 | | 5.0 | 14/08/1998 | 02021 |
| | Alkalinity | 1.6 | mg/L | 0.3 | 14/08/1998 | 010101 |
| | Turbidity | 2.4 | NTU | 0.1 | 14/08/1998 | 002081 |

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

LAB# 981297

SAMPLE INFORMATION

Our Lab#: 981297
Your Sample ID: 0640-6
Sample Matrix: water - grab

PROJECT: SNP

Collection:

Location: Broughton Isl.
Date: 11/08/1998
By: P.Smith

Received Date: 13-Aug-98

Report Date: 25-Aug-98

Approved By: 

- SAMPLE ANALYSIS REPORT -

| Lab# | Test | Result | Units | Detection Limit | Analysis Date | Analytical Method |
|--------|----------------------|--------|-------|--------------------|------------------|----------------------|
| 981297 | | | | | | |
| | Tot-Suspended-Solids | 56 | mg/L | 3 | 14/08/1998 | grav |
| | Ammonia-N | H 60.9 | mg/L | 0.002 | 20/08/1998 | 007562 |