



Indian and Northern
Affairs Canada

Affaires indiennes
et du Nord Canada

Northern Affairs Program
P.O. Box 100
Frobisher Bay, N.W.T.
X0A 0H0

August 29, 1985

Joanna Aula
Secretary Manager
Settlement of Hall Beach
Hall Beach, N.W.T.

Your file Votre référence:

Our file Notre référence:

B9546-11(HB)

Dear Joanna;

Re: Inspection Report on Settlement of
Hall Beach, August 7, 1985

FILE

Attached is a copy of the aforementioned inspection report.

When the results of the laboratory analysis of water samples collected from the water supply become available, they will be forwarded to you.

*Inspection Report
Hall Beach
Distribution*

If you have any questions or comments please contact me at 979-6369.

Peter Bannon

Peter Bannon
Water Resources Officer
Baffin District

cc. **R. Soniassy**
T. Smyth

Ministry of Indian Affairs
Director

| | | | | | | | | |
|--|-----------------|--|----------------|--------------------------|--|--|--|--|
| LICENSEE/PROJECT Mun. of Hall Beach | | LICENCE NO. H.B.1 n/a | | LOCATION Water Supply | | | | |
| DATE SAMPLED Aug 7 1985 | | SAMPLED BY Bannon | | | | | | |
| ANALYSIS | SAMPLE VOLUME | PRESERVATIVE | STATION NUMBER | | | | | |
| | | | H.B-1 | | | | | |
| | | | BOTTLE NUMBER | | | | | |
| MISC. & ARSENIC | 1 LITRE | NONE | ✓ | | | | | |
| HEAVY METALS | 500 ML | 2 ML 1:1 HNO ₃ | ✓ | | | | | |
| CYANIDE | 500 ML | About 6 pellets NaOH to pH 12 | | | | | | |
| MERCURY | 250 ML | 2 ML 1:1 HNO ₃ + 2 ML 5% K ₂ Cr ₂ O ₇ | ✓ | | | | | |
| NUTRIENTS | 250 ML | NONE | | | | | | |
| BACTERIA | 500 ML | NONE | | | | | | |
| OIL AND GREASE | 1 LITRE (GLASS) | 4 ML 1:1 H ₂ SO ₄ | | | | | | |
| priority | | | graphite med. | | | | | |
| Time of Sampling | | | 1445 | | | | | |
| Air Temperature | | | | | | | | |
| Water Temperature | | | | | | | | |
| Rate of Flow | | | | | | | | |
| Ice Thickness | | | | | | | | |
| Depth of Sampling | | | surface | | | | | |
| pH | | | | | | | | |
| Conductivity | | | | | | | | |
| Dissolved Oxygen | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| H.B-1 - Water supply from truck fill point | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
WATER RESOURCES DIVISION, YELLOWKNIFE, NORTHWEST TERRITORIES

RESULTS OF LABORATORY ANALYSIS

| | | | | | |
|--|----------|---------------------------------------|---------------------------|-------------------------------------|--|
| LICENSEE/ PROJECT <i>Mun. of Hall Beach</i> | | LICENCE NUMBER <i>n/a</i> | | LOCATION <i>Water supply</i> | |
| DATE SAMPLED <i>Aug 7/85</i> | | DATE RECEIVED <i>AUG 12. 19 85</i> | | DATE COMPLETED <i>Dec. 2 '85</i> | |
| STATION NUMBER | | <i>H.B-1</i> | | | |
| LABORATORY NUMBER | | <i>42400</i> | | | |
| ANALYSIS REQUIRED | | ✓ | | ✓ | |
| pH (units) | | ✓ <i>7.3</i> | | | |
| Conductivity (umho/cm) | | ✓ <i>210</i> | | | |
| Dissolved Oxygen | | ✓ | | | |
| Turbidity (NTU) | | ✓ <i>1.40</i> | | | |
| Colour (colour U.) | | ✓ <i><5</i> | | | |
| Suspended Solids | | ✓ <i><5</i> | | | |
| TDS, Residue | | ✓ <i>130</i> | | | |
| Calcium | | ✓ <i>9.9</i> | | | |
| Magnesium | | ✓ <i>4.0</i> | | | |
| Tot. Hardness (CaCO ₃) | | ✓ <i>41</i> | | | |
| Tot. Alkalinity (CaCO ₃) | | ✓ <i>86</i> | | | |
| Sodium | | ✓ <i>8.42</i> | | | |
| Potassium | | ✓ <i>1.1</i> | | | |
| Chloride | | ✓ <i>13</i> | | | |
| Sulphate | | ✓ <i>8.5</i> | | | |
| Total Coliform (count) | | | | | |
| Fecal Coli. (100 ml) | | | | | |
| Fecal Strep. (ml) | | | | | |
| Std. Plate Cnt (cnt/ml) | | | | | |
| BOD ₅ | | | | | |
| COD | | | | | |
| Carbon, IC | | | | | |
| Carbon, TOC | | | | | |
| Ammonia Nitrogen (as N) | | | | | |
| Nitrate + Nitrite (as N) | | | | | |
| Total Kjeldahl N | | | | | |
| Phosphorus O-P (as P) | | | | | |
| Phosphorus Tot (P) | | | | | |
| Silica Reac. (as SiO ₂) | | | | | |
| Total Cyanide | | | | | |
| Available Cyanide | | | | | |
| Sulphide | | | | | |
| Oil & Grease | | | | | |
| Phenols | | | | | |
| Arsenic | T (ug/L) | ✓ | <i><1.0</i> | | |
| | D (ug/L) | | | | |
| Cadmium | T (ug/L) | ✓ | <i>0.1</i> | | |
| | D (ug/L) | | | | |
| Copper | T (ug/L) | ✓ | <i><0.5</i> | | |
| | D (ug/L) | | | | |
| Iron | T (ug/L) | ✓ | <i>29.0</i> | | |
| | D (ug/L) | | | | |
| Lead | T (ug/L) | ✓ | <i><0.5</i> | | |
| | D (ug/L) | | | | |
| Mercury | T (ug/L) | ✓ | <i>no sample received</i> | | |
| | D (ug/L) | | | | |
| Nickel | T (ug/L) | ✓ | <i><10.</i> | | |
| | D (ug/L) | | | | |
| Zinc | T (ug/L) | ✓ | <i><15.</i> | | |
| | D (ug/L) | | | | |
| Chromium | T (ug/L) | ✓ | <i><0.5</i> | | |
| | D (ug/L) | | | | |
| Manganese | T | ✓ | <i>1.1</i> | | |

Results are expressed in mg/L, except as indicated. T and D refer to

INSPECTION REPORT
ON
SETTLEMENT OF HALL BEACH

AUGUST 7, 1985

by

PETER BANNON

INSPECTOR UNDER THE NORTHERN INLAND WATERS ACT
NORTHERN AFFAIRS PROGRAM
INDIAN AND NORTHERN AFFAIRS CANADA
FROBISHER BAY, N.W.T.

Date: August 28, 1985

Water Register: n/a

INSPECTION OF SETTLEMENT OF HALL BEACH

AUGUST 7, 1985

INTRODUCTION

The water and sanitation facilities in Hall Beach were inspected on August 7, 1985, by Peter Bannon and Alan Frank, Inspectors Under the Northern Inland Waters Act. The Inspectors met with Joanna Aula, Secretary Manager for the Settlement to discuss various aspects of the water services.

A. Water Supply

The water supply is the lake used by the Fox Main DEW Station. Ms. Aula said that the Settlement has been renting a water truck from the DEW Station since their own burned in May of this year. She also reported that the water has been acceptable and no problems related to the water were raised.

During the sampling of the water supply the Inspector noted a population of what appeared to be copepods in the upper photic layer of the water, but this was not considered to be a problem, but rather that the water supply was a lake in a healthy state.

B. Sewage Disposal

Hall Beach has about 490 residents occupying about 72 buildings that generate sewage. There are five new houses that are to be constructed this year. Ms. Aula said that there are about 13 buildings with honeybags of which one of these is the school.

No improvements have been made to the sewage disposal area which is situated on a raised beach about 2 kilometers north of Hall Beach nor will any be planned for until the Municipal Services Engineer with the GNWT has had the opportunity to assess the dump.

Solid Waste Disposal

The dump site is also located on the same raised beach that the sewage is discharged to. It is located on the gravel substrate and is less than 100 meters from the sea. Some reclamation work may be useful to improve the appearance of the dump but it may be difficult to alter the water infiltration processes of the area.

SAMPLING

The water supply was sampled at the truck fill point (H.B.-1).

SUMMARY

More houses are being converted to pumpout sewage but little else has changed since the last inspection.

A handwritten signature in black ink that reads "Peter Bannon". The signature is written in a cursive style with a large, stylized 'P' and 'B'.

Peter Bannon
Inspector Under the Northern
Inland Waters Act

Dated: August 28, 1985
Water Register: n/a