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Telephone: (403) 979-3361
Telecopier: (403) 979-2090

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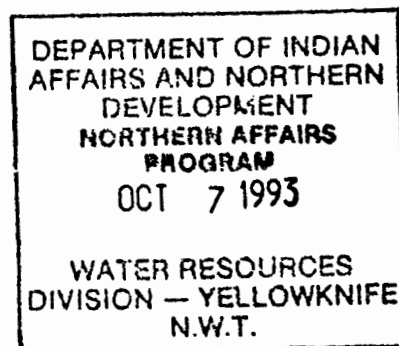
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Hamlet of Cambridge Bay
P.O. Box 16
CAMBRIDGE BAY, N.W.T.
X0E 0C0

Attention: Randy Bergen
Senior Administrative Officer



1532-2
WB

Dear Mr. Bergen

You will find attached a copy of the 1993 Municipal Inspection Report for the Hamlet of Cambridge Bay under Water Licence N4L4-1532. The inspection was conducted by Scott Gallepe, Water Resources Officer, Inuvik, on August 19, 1993.

No major problems were noted however there appears to be some re-occurring issues. Specifically, the requirement for the proper postings of the water supply, waste disposal and SNP stations that has still not been met. It has been explained, repeatedly, the importance of this requirement. Is there a reason why this requirement can not be met?

Please address the issues outlined by the Inspector in this report. Your efforts to comply with the terms and conditions of your Water Licence are appreciated.

If you have any questions please feel free to contact this office.

Yours truly

R.A. Cockney
District Manager

cc: Brian Collins, INAC, Water Resources - Yellowknife
Denis Bedard, MACA - Cambridge Bay
Environmental Health - Cambridge Bay



MUNICIPAL INSPECTION REPORT
FOR
THE HAMLET OF CAMBRIDGE BAY
WATER LICENCE N4L4-1532

AUGUST 19, 1993

PREPARED BY
SCOTT GALLUPE
WATER RESOURCES OFFICER
INSPECTOR UNDER THE NORTHWEST TERRITORIES WATERS ACT

NORTHERN AFFAIRS PROGRAM
INDIAN AND NORTHERN AFFAIRS CANADA
INUVIK, N.W.T.

**MUNICIPAL INSPECTION REPORT
HAMLET OF CAMBRIDGE BAY
WATER LICENCE N4L4-1532**

Introduction

This Licence allows the use of water and disposal of waste at the Hamlet of Cambridge Bay, Northwest Territories. This Licence became effective July 1, 1988 and expires June 30, 1995.

An inspection of the water supply and waste disposal facilities was conducted by Scott Gallupe Water Resources Officer, Inuvik, on August 19, 1993.

There were no changes in the facilities and method of operation for the water supply and waste disposal. However, there was some maintenance to the water supply facilities.

The contact person for the inspection was Mr. Randy Bergen, Senior Administrative Officer for the Hamlet.

A. WATER SUPPLY

Water is obtained from Water Supply Lake located 2 km northwest of the Hamlet. Water is transported via underground pipeline from the pumphouse at the lake to the treatment plant in the DPW yard in town. There is a little boiler house beside the pumphouse at Water Supply Lake to supply heat for the pumphouse during winter. The intake is backwashed about once a week. The pumphouse was clean and tidy. The pumphouse was not posted. It was explained to the Hamlet that this is a SNP station, number 1532-1, and it is a requirement for it to be posted. This requirement has never been complied with and this is unacceptable.

There were 2 tents near the pumphouse which appeared people were living in. There was no garbage noted in the lake.

Department of Public Works, G.N.W.T., maintains and operates the pumphouse and treatment plant. DPW replaced a one and a half inch hot water line inside the pipeline in the fall of 1992. There was a leak in this line that caused it to partially freeze in the winter.

Water is stored in a 50,000 gallon reservoir tank behind the treatment plant. Water is solely distributed by water truck and done by the Hamlet. The meter in the treatment plant records water quantities pumped from Water Supply Lake. The meter is read on a daily basis and records are kept at the DPW office. The Hamlet obtains these figures from DPW and reports them annually as required by their Water Licence.

The raw water is chlorinated at the treatment plant by automatic injection using liquid Perfex bleach. No other treatment was noted. DPW checks the chlorine content. It was not apparent at the time of inspection what concentration the chlorine is kept at and what analysis do they actually perform. ie. free available chlorine or total residue chlorine.

The water treatment plant was neat and tidy.

No problems were noted with the water supply. Samples were taken at SNP station number 1532-1. Results will be forwarded when available.

B. SEWAGE DISPOSAL

All buildings and residences are on sewage pumpout except for one seasonal resident. The Hamlet does not collect any bagged sewage, however, it is still a requirement for the Hamlet to have a posted segregated pit for bagged sewage. There was no bagged sewage pit and no sign for one. This is not acceptable. Sewage pumpout is taken to the lagoon, by the Hamlet, at the solid waste disposal site.

The pumpout turnaround area has a two halved steel corrugated culverts for sewage pumpout chute. There was noticeable erosion around the two culverts. It is noted that these culverts do not extend into the lagoon for optimum mixing. A long pipe or culvert that juts out over the lagoon plus an extended apron at the truck stop is a more effective means to ensure proper mixing and reduce potential health concerns.

There is still a lot of solid garbage in the lagoon, however there was no noticeable increase or decrease of amount from previous inspections. There were honeybags deposited in the lagoon. This is also not acceptable.

There was a small sign for the sewage lagoon however it was not set-up or easy to read at time of inspection. Sewage quantities are measured by truck load and records are kept at the Hamlet Office.

Samples were taken at SNP station number 1532-2. Results will be forwarded when available.

C. SOLID WASTE DISPOSAL

Garbage is deposited at the solid waste disposal site adjacent to the sewage lagoon about 1 km northeast of the community. The Licensee is disposing of solid waste in a manner as shown in plans entitled Cambridge Bay Sewage and Solid Waste Disposal Sites, Drawing No. 86-8001 dated August 8, 1986. This site is operated and maintained using a cut and fill method of annual trenches.

This site was not posted to the satisfaction of the Inspector.

There was no segregated dead animal pit.

There was segregation of bulky metal waste behind the disposal area and access.

from Float Plane road. This site was posted.

There was nominal wind blown debris with no evidence of fencing.

Samples were taken at SNP 1532-2. Results will be forwarded when available.

D. SURVEILLANCE NETWORK PROGRAM (SNP)

All requirements of the SNP had been met to date of inspection.

E. RECORDS AND REPORTING

All record and reporting requirements had been met to date of inspection. The 1992 Annual Report was late and received May 5, 1993. The Hamlet was reminded to submit their Annual Report by March 1st and follow the format outlined by their Water Licence and by the Inspector.

F. POSTING

The solid waste disposal site was not posted and the sewage facility posting was not properly maintained.

The water supply facility at Water Supply Lake was not posted.

Part A, item of the Water Licence states: "The Licence shall, on or before August 1, 1988, post and maintain the necessary signs to identify the stations of the Surveillance Network Program to the satisfaction of the Inspector". The SNP stations were not posted. The Hamlet is again reminded that the failure to meet posting requirements under their Water Licence is a **violation**.

G. ABANDONMENT AND RESTORATION

The old dumpsite has been abandoned and restored as per final inspection October 1990 by Norman Sancier, Resource Management Officer III, Inuvik.

No other abandonment or restoration was noted.

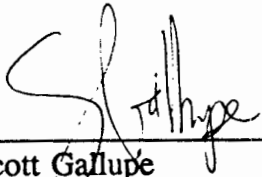
H. OTHER CONCERNS

Environment Canada and the Department of National Defence are conducting an intensive study of the arctic ecosystem in Cambridge Bay. This is in view of old and current DEW line site and Hamlet waste management practices in the study area. DND, Royal Roads, Victoria, British Columbia, will be publishing a report with the results in the near future.

I. OFFICIAL ONSITE DISCUSSION

The terms and conditions of the Hamlet's Water Licence N4L4-1532 were discussed during and after the inspection with Randy Bergen, Senior Administrative Officer.

The Inspector would like to thank Mr. Bergen for his assistance and cooperation.



Scott Gallupe
Water Resource Officer.