



Indian and Northern
Affairs Canada

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et du Nord Canada

*Clyde River
100*

Northern Affairs program
P.O. Box 100
Igloolik, N.W.T.
XOA OHO

Your file Votre référence

Our file Notre référence
B9545-5-C97

December 11, 1990

Mrs. Lizzie Palitug
Senior Administrative Officer
Hamlet of Clyde River, N.W.T.
XOA OEO

Dear Mrs. Palitug:

Re: Water Quality Sample Results - August 14, 1990
 Inspection Report - Hamlet of Clyde River, N.W.T.

Please find a copy of the results of the water quality samples collected while in Clyde River.

The sample results are within the Guidelines established for Canadian Drinking Water Quality. The mercury sample exceeded acceptable standards but is suspect compared with historical data and will be reconfirmed during 1991.

If you have any questions or comments, please feel free and call Mr. David Jessiman, Water Resources Officer, at (819) 979-4405.

Sincerely

J.M.A. Theriault
District Manager
Baffin District

cc. Water Resources, YK
 GNWT - DPW - S. Kennedy
 GNWT - MACA - M. Ferris
 GNWT - BRHB - L. Wilson

encls/1
- Common Parameters (Hamlet only)



Canada

JM



Indian and Northern
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et du Nord Canada

Northern Affairs Program
P.O. Box 100
Igloolik, N.W.T.
XOA OHO

October 9, 1990

Ms. Louisa Jaypoody
Acting Senior Administrative Officer
Hamlet of Clyde River
Clyde River, N.W.T.
XOA OEO

Dear Ms. Jaypoody;

Re: Northern Inland Waters Act
Hamlet of Clyde River
Inspection Report - August 14 and 15, 1990

Please find the above noted report prepared by David
Jessiman, Water Resources Officer.

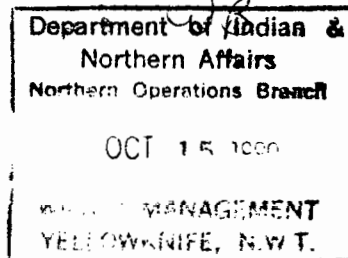
The inspection report identifies a number of concerns
that require your attention:

1. We commend the efforts of Mr. Arreak and staff to develop plans to relocate the waste disposal sites and to remove the old drums from the surrounding lands.
2. The inspector strongly recommended that the Hamlet build a properly designed Sewage Lagoon. The Hamlet should discuss this recommendation with the Government of the N.W.T. - Municipal and Community Affairs to ensure the design requirements are met. It is recommended that a sewage bag disposal area be built in conjunction with the sewage lagoon and be utilized until all the houses have been retrofitted with sewage tanks.
3. It is recommended that the abandoned waste disposal sites be cleaned up and restored.
4. The inspector recommended that warning signs be posted at the water supply lake and at the waste disposal sites.

Your file Votre référence

Our file Notre référence
B9545-5-C97

Clyde River
Unlicensed comment
JW

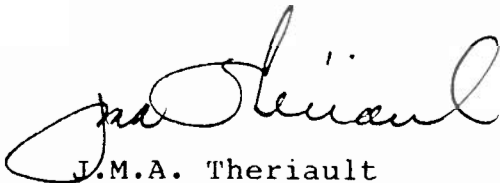


Canada

The results of the water quality samples collected in Clyde River will be provided when received by our office.

If you have any questions or comments on the inspection report please feel free and call Mr. David Jessiman, Water Resources Officer, at (819) 979-4405.

Sincerely

A handwritten signature in black ink, appearing to read 'J.M.A. Theriault', with a large, stylized initial 'J'.

J.M.A. Theriault
District Manager
Baffin District

cc. Water Resources, YK:
GNWT - MACA (M. Ferris)
GNWT - DPWH (S. Kennedy)
GNWT - BRHB (L. Wilson)

encls/1

DSJ

INSPECTION REPORT

ON THE

HAMLET OF CLYDE RIVER

AUGUST 14 AND 15, 1990

BY

DAVID JESSIMAN

INSPECTOR UNDER THE NORTHERN INLAND WATERS ACT

NORTHERN AFFAIRS PROGRAM

INDIAN AND NORTHERN AFFAIRS CANADA

IQALUIT, N.W.T.

DATE: October 5, 1990

WATER REGISTER: N/A

INTRODUCTION

On August 14 and 15, 1990, David Jessiman, Water Resources Officer of the Baffin District, conducted an inspection of the water use and waste disposal practices of the Hamlet of Clyde River, N.W.T.. The inspector met with Ms. Louisa Jaypoody, Acting Senior Administrative Officer and Mr. David Arreak, Hamlet Foreman to review and discuss the inspection. Mr. Arreak accompanied the inspector during the inspection.

INSPECTION

Water Supply

The Hamlet's year round freshwater supply is obtained from a water lake located approximately one kilometre northwest of the community. The lake is fed by a series of inland lakes and streams. Potable water is pumped into 4 550 litre water trucks from the eastern side of the lake during the summer season and from the western side during the winter season. Water is delivered to the community six times a week by two water trucks.

The intake facilities and the surrounding lake was inspected and no concerns were observed.

Sewage Disposal

Sewage is disposed at the recently abandoned domestic waste disposal site approximately one kilometre west of the community. The domestic disposal site was abandoned in 1989 when a new site was selected.

Sewage is discharged over the edge of the pushed out disposal site. The effluent flows over a coarse rock / boulder and thick organic mat slope of approximately 15 percent into a discharge channel. The discharge channel is approximately 12 by 84 by 0.60 metres deep. The distance from the edge of the disposal site to Patricia Bay is approximately 120 metres. Sewage effluent is periodically flushed out depending on the local tidal conditions.

The Hamlet utilizes two 4 550 litre sewage vacuum trucks, six days a week for the 520 residents.

The bagged sewage is trucked and discharged at the abandoned waste disposal site.

Mr. Arreak indicated that 15 houses continue to use sewage bags and they are gradually being retrofitted with water and sewage tanks.

Solid Waste Disposal

The Domestic and Metal Waste Disposal sites are located approximately one and two decimal two kilometres west of the community.

The Domestic Waste Disposal site was abandoned in 1989 and a new site was selected further down the bay. The site continues to be used as the sewage disposal area. The site was partially covered with granular material and the working face was exposed. The face consisted of numerous empty drums, fuel tanks, water tanks, building panels and debris and scrap metal. The site measures approximately 25 by 80 metres.

The new Waste Disposal site consists of a domestic waste disposal site, scrap metal area and a waste oil storage area. The waste disposal site appeared to be well maintained and routinely burnt. The site measured approximately 20 by 50 metres. The scrap metal area consisted of approximately 25 old vehicles and heavy equipment. The site measured approximately 18 by 50 metres.

Mr. Arreak mentioned that all the old vehicles and waste oil drums were hauled to the new site last fall after the ground was frozen. He added that the sewage disposal area should be moved to this site once the design and funding arrangements have been finalized with the Government of the N.W.T..

An abandoned waste disposal site was located approximately 500 metres northeast of the community. The site was located along the edge of a stream flowing towards Patricia Bay. For approximately 25 metres downstream of the site, the stream bed was observed to be heavily stained in rust. The stream bed from the site to the main access road was lined with scattered garbage and old drums. The surface of the site was partially covered with granular material and the sides were exposed. The exposed garbage consisted of old rusted cans, drums, snowmobiles, building panels and assorted scrap metal. Approximately 300 old drums were stored in the centre of the site. Mr. Arreak indicated the drums have been retrieved from the surrounding area and will be kept until they are crushed and / or disposed.

Approximately 1000 empty drums were observed along the sealift beach area west of the Tank Farm. The drums were marked with A.E.S., D.I.A.N.D., D.N.D., D.O.T., G.N.W.T., G.S.C. and R.C.M.P.. Mr. Arreak mentioned that the were hauled from around the community and along Patricia Bay.

Piles of crushed drums, culverts, cable, steel pipe and panels were located along the beach area.

Fuel Storage

The Government of the N.W.T. Bulk Fuel Farm and fuel conveyance lines located south west of the community was inspected and a few concerns were observed. The berm liner was exposed along the perimeter, the main berm sides and front was low from erosion and water drainage and the secondary berm had low berms and an exposed liner. Fifteen fence posts and supports had failed and / or sagged. The facility was locked and well marked. The sealift intake line sign was upside down and had faded out. An old disconnected intake line was located parallel to the fuel pipeline.

SURVEILLANCE NETWORK PROGRAM

The following water quality samples were collected;

MISC-CR-01	Water Supply Lake - truck pumping site
MISC-CR-02	Sewage effluent below old waste disposal site
MISC-CR-04	Runoff below the abandoned solid waste disposal site - 25 metres from site in drainage creek

Posting

No warning signs were located at the water lake and sewage and waste disposal sites.

Records

Records of water use are being kept by the Hamlet.

DISCUSSION

After the inspection a discussion was held with Mr. Arreak and the following concerns were noted:

1. Mr. Arreak indicated that the Hamlet wants to relocate the sewage disposal area near the new waste disposal sites and are waiting for funding approvals. The inspector strongly recommended that the Hamlet build a properly designed Sewage Lagoon. It was suggested that the Hamlet seek the assistance of the Government of the N.W.T. - Department of Municipal and Community Affairs to ensure the design requirements are met.
2. It was recommended that the abandoned waste disposal sites be cleaned up and restored.

3. Mr. Arreak mentioned that the Hamlet is proposing to crush the drums along the sealift beach area next year with the assistance of the Federal and Territorial Governments.

4. The inspector recommended that warning signs be posted at the water supply lake and the waste disposal sites.

The co-operation and assistance provided by Ms. Louisa Jaypoody and Mr. David Arreak was greatly appreciated while in Clyde River.

A handwritten signature in black ink, reading "David Jessiman". The signature is written in a cursive style with a large, stylized 'D' and a long, sweeping underline.

David S. Jessiman

Inspector Under the
Northern Inland Waters Act