

MUNICIPAL INSPECTION REPORT

FOR

THE HAMLET OF TUKTOYAKTUK

WATER LICENCE N7L4-0714

SEPTEMBER 14, 1992

PREPARED BY

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INTRODUCTION

An inspection of the water supply and waste disposal facilities was conducted by Scott Gallupe, Water Resources Officer, and Mike Collie, Resource Management Officer, Inuvik, on September 14, 1992.

There were no changes of the water and waste disposal facilities. There were changes in the method of operation for the sewage lagoon. There was some major maintenance to the solid waste disposal site.

The contact people for the inspection were Eddie Dillon, Mayor, and Kevin O'Brien, Senior Administrative Officer. Mr. O'Brien became a Hamlet employee in the spring of 1992.

A. WATER SUPPLY

Water is obtained from Kudalak Lake and piped approximately 7.5 km to a large circular reservoir via an above ground/submerged 6" PVC pipeline. The Hamlet of Tuktoyaktuk purchased the raw water pumping facilities from Northern Underwater Systems in 1992. The Hamlet now has control of their water supply facilities except for maintaining the pumphouse and truck fill-up station at the reservoir.

The Hamlet has acquired a new pump at Kudalak Lake.

The reservoir had been filled by time of inspection and no problems noted. Records are kept by the Hamlet, however the Hamlet has been negligent in reporting water quantities pumped, as required by their Water Licence. The 1990 and 1991 quantities have not been received to date.

The raw water is chlorinated and fluoridated at the pumphouse at the reservoir. Chlorine and fluoride concentrations are checked weekly by DPW and records are kept at the reservoir pumphouse. The reservoir pumphouse was neat and tidy.

The intake at the reservoir is backwashed approximately once per month due to low suspended solids.

Water is distributed solely by tank and delivered by the Hamlet. There are meters in the reservoir pumphouse that record quantities pumped to the tank trucks. DPW was keeping records that they submit to the Hamlet.

No problems were noted with the water supply facilities.

Samples were taken at the reservoir and results will be forwarded when available.

B. SEWAGE DISPOSAL

The majority of sewage is collected by vacuum truck and deposited at the lagoon located approximately 8 km southwest of the Hamlet.

There was considerable erosion noted beside the pumpout chute again this year. It appeared that no maintenance had occurred at the pumpout chute.

The sewage lagoon appeared a good green colour with little odour and no garbage visible in the lagoon.

The problems with the decant structure valve still remains. There was noticeable flow seeping through the dyked decant structure at a rate of approximately 10 litres per minute. It was brought to Mr. Kevin O'Brien's attention that discharge from the waste disposal facility shall be from August 15 to October 15, Part C, Item 3 of Water Licence N7L4-0714. It was also brought to Mr. O'Brien's attention that the Hamlet (Licensee) shall notify the Inspector at least ten (10) days prior to any discharge of effluent from the waste disposal facility, Part C, Item 4 of Water Licence N7L4-0714. The Hamlet has submitted no plans to modify the sewage lagoon facility and has done no maintenance of the facility since the summer of 1991.

Although the seepage is nominal at the decant structure the Hamlet's Water Licence does not allow for continuous discharge. The structural integrity of the decant structure is still questionable. It was not apparent at time of inspection when the Hamlet was going to decant the sewage lagoon.

Bagged sewage is deposited at a pit at the solid waste disposal site. The pit was full of other garbage and poorly posted. The Hamlet was told this is not acceptable. There are approximately 10 residences on bagged sewage.

The sign at the sewage lagoon was in poor shape and difficult to read.

C. SOLID WASTE DISPOSAL

The solid waste disposal site is located approximately 4 km southwest of the downtown core of the community and is on municipal lands.

Garbage is segregated into domestic garbage, bulky metal waste and bagged sewage. Domestic garbage is crushed, compacted and covered as required. Bulky metal waste was originally to form a metal core for a berm to keep storm tides out of the site. This plan was only 10% accomplished, then abandoned. Bagged sewage is deposited in a pit at the site that was full of other garbage and poorly posted.

The site appeared to be backfilled regularly and fenced which keeps down the windblown debris.

The Hamlet was having a clay core berm constructed at time of inspection to keep the storm tides from entering the site. The berm was approximately half-way through construction at time of inspection and the first phase was expected to be completed by mid-October 1992. There is a second phase of construction to be done in 1993. This berm is considered a modification of the existing solid waste disposal facilities and has received proper Water Board screening and approval. The Hamlet was asked to submit "as built" plans within ninety (90) days of completion of the modification.

The Inspector took a series of four samples of ponded water at the solid waste disposal site. Samples were taken for immediates, heavy metals, PCBs and nutrients. When all the results are received they will be forwarded to the Hamlet.

The solid waste disposal site was well posted.

D. SURVEILLANCE NETWORK PROGRAM (SNP)

Part D, Item 1 states:

"The Licensee shall submit all of the information generated by part B, of the Surveillance Network Program annually as specified in Part A, Item 2 of this Licence".

The Hamlet continues to be negligent in submitting their Annual Reports. No 1990 nor 1991 Annual Report has been received to date.

E. POSTING

The water supply facilities were posted.

The sewage lagoon and the bagged sewage pit were poorly posted. The Hamlet was asked to improve these signs.

F. ABANDONMENT AND RESTORATION

Municipal and Community Affairs GNWT did not conduct any more re-seeding projects at the reservoir or old solid waste disposal site in 1992. There remains approximately the same amount of revegetation as last year, that is, approximately 1% of the reservoir and 5% of the old abandoned solid waste disposal site is covered. It is not apparent if more re-seeding is planned.

G. OTHER CONCERNS

None noted.

H. OFFICIAL ONSITE DISCUSSION

The terms and conditions of the Hamlet's Water Licence was discussed with Kevin O'Brien, Senior Administrative Officer, and Eddie Dillon, Mayor, at time of inspection.

The Inspector would like to thank Mr. Dillon and Mr. O'Brien for their cooperation and assistance.

A handwritten signature in cursive script, appearing to read "Scott Gallupe".

Scott Gallupe
Water Resources Officer