

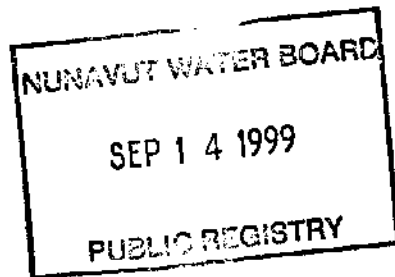


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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

September 13, 1999

David Hauilli
Hamlet Foreman
Municipality of Igloolik
P.O. Box 30
Igloolik, Nunavut X0A 0L0



File No: NWB IGL9803

By Fax: 867-934-8757 (2 pages)

Re: Discharge of Sewage

Dear Mr. Hauilli:

This letter is in response to your fax to Peter Kusugak, DIAND, dated August 27, 1999, outlining the plan to manually discharge sewage from Cell Three of the Sewage Disposal Facilities. The NWB approves the request to discharge under the following conditions:

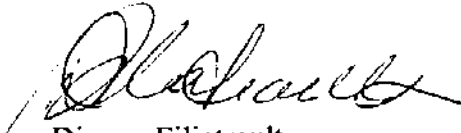
1. All discharge of sewage effluent from the Sewage Disposal Facilities at "Surveillance Network Program" Station Number IGL-3 shall meet the effluent quality standards provided in Part D, Item 2 of your current water licence.
2. The Inspector shall be advised at least ten (10) days prior to initiating the decant of the sewage lagoon in accordance with Part D, Item 5.
3. Sampling at IGL-3 (Runoff discharge from the Sewage Lagoon just prior to entering the ocean) shall be sampled three times during the discharge. Once at the beginning of discharge, once at the half way mark (i.e., middle of second week) and once near the end of discharge. The samples will be analyzed for the parameters outlined in Part B, Item 2 of the "Surveillance Network Program".
4. The information collected should be provided to the NWB in the Licensees Annual Report due March 31, 2000. Additional information on long term requirements and solutions to be addressed should include, among other things:
 - i. Solutions to clogging of the lagoon berms preventing seepage,
 - ii. Diversion of the melting permafrost from the small hill above cell #3,
 - iii. A summary of the modification required and/or major maintenance work carried out on the sewage cells, and
 - iv. A summary of the follow-up action taken (i.e, a Geotechnical Engineers' inspection of the integrity of the berms).

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5. To ensure that impact to the environment and receiving waters are minimized the Nunavut Water Board recommends:
 - i. The effluent being discharged shall be dispersed over several weeks and done intermittently.
 - ii. The NWB recommends that the licensee discharge a depth of 200 mm weekly for five weeks to achieve the required level of discharge equivalent to approximately 7,500,000 litres. To accomplish this, the licensee should install a measuring gauge at the side of the cell to monitor the discharge level.
 - iii. The Licensee shall take steps to prevent erosion at the end of the discharge pipe. (i.e., placing a piece of plywood on the ground).
 - iv. To allow for further treatment of the effluent, the discharge point of the effluent shall be rotated.
6. The NWB shall be notified prior to carrying out modifications to the Waste Disposal Facilities at least sixty (60) days prior to beginning the modifications in accordance with Part E of the current licence.
7. The Licensee should have submitted an *Operation and Maintenance (O&M) Manual* by the end of April 1999 in accordance with Part G, Item 1, of your current licence. This manual would have addressed some of your present concerns and outlined preventative actions. The NWB recommends that the Licensee submit the O&M manual as soon as possible.

Should you require clarification in this matter please do not hesitate to contact me at the above.

Sincerely,



Dionne Filiatrault
Technical Advisor

- cc. P. Kusugak, DIAND
M. Keast, DFO
S. Harbicht, EC-EP
N. Richie, EHO
E. Baddaloo, SD
M. Bertol, CG