



**Environment Environnement  
Canada Canada**

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Our file: 4782 056

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Via Email at [licensing@nwb.nunavut.ca](mailto:licensing@nwb.nunavut.ca)

**RE: NWB3REP – Hamlet of Repulse Bay Water License**

On behalf of Environment Canada (EC), I have reviewed the information submitted with the above-mentioned application. The following specialist advice has been provided pursuant to Environment Canada's mandated responsibilities for the enforcement of the *Canadian Environmental Protection Act*, Section 36(3) of the *Fisheries Act*, the *Migratory Birds Convention Act*, and the *Species at Risk Act*.

The Hamlet of Repulse Bay is applying for a new water license. The Hamlet currently discharges municipal sewage directly into a 64,000 sq m wetland control system, which empties into Hudson Bay. Municipal garbage is collected and burned when conditions are favourable. Water is drawn for municipal use from Nuvik Luktujuk Lake and stored in a reservoir for use.

The following information would help to facilitate the review of this application:

- The application states that construction on the new landfill began in 2003. Environment Canada requests the opportunity to review any plans that are submitted to the NWB in relation to the new landfill design.
- The application makes reference to plans to construct a new solid waste disposal area. Environment Canada recommends that an abandonment and reclamation plan for the current site be developed and approved prior to the current site's closure.

Environment Canada recommends that the following conditions be applied throughout all stages of the project:

- The proponent shall not deposit, nor permit the deposit of any wastes, sediment, or chemicals into any water body. According to the Fisheries Act, Section 36(3), the deposition of deleterious substances of any type in water frequented by fish, or in any place under any conditions where the deleterious substance, or any other deleterious substance that results from the deposit of the deleterious substance, may enter any such water, is prohibited.
- Environment Canada recommends that the proponent segregate hazardous wastes, including batteries and waste oil, from the general waste stream and ensure that all hazardous wastes are disposed of at an approved facility.
- The application states that there is currently no separate area for the storage of waste oil. Environment Canada recommends that waste oil and other hazardous materials are

stored within a bermed area to help prevent the potential for the release of a deleterious substance into the environment.

- Environment Canada recommends that the proponent erect fencing around the entire perimeter of the solid waste disposal area in order to decrease the amount of windblown refuse.
- Environment Canada recommends that signage be posted indicating the location of the current sewage disposal area, including the wetland treatment area, as well as the location of the past and present solid waste disposal areas.
- If cover material is available, EC recommends that the burned wastes be covered at least annually.
- Environment Canada recommends that the Hamlet develop a Spill Contingency Plan, outlining a clear path of response in the event of a spill. All spills are to be documented and report to the NWT Spill Line at (867) 920-8130.
- The application makes reference to the fact that the solid waste facility is located on a slope, with drainage running towards the wetland used for sewage treatment. Environment Canada recommends that the Hamlet take measures to ensure that effluent from the solid waste facility does not enter the sewage treatment area. A berm, or similar preventative measure, should be erected at the toe of the landfill to help prevent the mixing of these effluents.
- As sedimentation can decrease the effectiveness of the wetland treatment, EC recommends that the Hamlet take measures to ensure that excessive sedimentation of the wetland is not occurring at the sewage dumpsite. Such measures could include extending the length of the steel sluice at the discharge point.

If there are any changes in the proposed project, EC should be notified, as further review may be necessary. Please do not hesitate to contact me with any questions or comments with regards to the foregoing at (867) 975-4639 or by email at [colette.meloche@ec.gc.ca](mailto:colette.meloche@ec.gc.ca).

Yours truly,

***Original signed by***

Colette Meloche  
Environmental Assessment Specialist

cc: (Brian MacQuarrie, Senior Administration Officer, Hamlet of Repulse Bay)  
(Mike Fournier, Northern Environmental Assessment Coordinator, Environment Canada, Yellowknife)