

## **Application for a Nunavut Water Board License, Hamlet of Arviat**

### **Executive Summary**

Enclosed is an application submitted on behalf of the Hamlet of Arviat, for a renewal of the water license NWB3ARV0308. The Hamlet is seeking a 5 year renewal of this license. This license includes all water intake, sewage disposal and waste disposal activities for the Hamlet of Arviat. The facilities include the Wolf River Water Intake Pump House, Arviat water reservoirs and truck-fill station, the Arviat sewage lagoons, and the Solid Waste Management Facility (landfill, bulky wastes, and related infrastructure). The proposed license will be valid from issuance (approximately January 2009) for 5 years until December 2014.

The Hamlet of Arviat provides trucked water supply, sewage disposal, and solid waste removal to the community.

The supply is obtained from Wolf River, located approximately 8.0 km southwest of the Hamlet. Water is pumped from the river seasonally and transported to the community water reservoirs. Water from the reservoirs is pumped into a truckfill station, where it is treated by chlorine injection prior to being pumped via an overhead arm into water trucks.

A Hamlet sewage truck pumps out the sewage holding tanks in each building. The sewage is trucked to a sewage lagoon approximately 2.8 km southwest from the Hamlet. The lagoon is decanted seasonally releasing the sewage to flow into a 100 m long wetland downgradient and towards Hudson Bay.

Solid waste is collected by the Hamlet garbage contractor truck from each building, and is trucked to the solid waste management facility approximately 2.8 km from the community. A separate bulky metals waste area is located 0.7 km north of the landfill area. The bulky metals area includes segregation of various materials such as tires, white goods, and vehicles. Waste oil and hazardous waste are collected at the public works yard.

The license application includes recommended conditions for monitoring. A new solid waste management facility will be commissioned during the term of this licence for which amendments to the monitoring program may be required.

Overall, the water supply, sewage disposal, and solid waste management facility will not substantially impact the quality, quantity, or flow out rates through Inuit owned lands.

