



Hamlet of Whale Cove Water Licence No. 3BM-WHA0914 Amendment/Renewal Application

EXECUTIVE SUMMARY

The Hamlet of Whale Cove is submitting to the Nunavut Water Board (NWB) a Water Licence Amendment/Renewal Application for Water Licence No. 3BM-WHA0914. This application supersedes that received March 25, 2014. The Hamlet is seeking a ten-year renewal of the licence which would be valid until 2025. The projected population of the Hamlet in the year 2025 is 488 people.

The Hamlet of Whale Cove utilizes Fish Lake for potable water with the authorized quantity of water not to exceed 30,000 cubic metres annually. The water intake pipe delivers water to the pumphouse where chlorine is injected as water fills trucks for delivery. The Amendment/Renewal Application is not requesting changes to the amount of water licensed.

The Hamlet of Whale Cove Solid Waste Disposal Site is located approximately 3 km southwest of the community. The site covers an area of approximately 1.2 ha, including a landfill, bulky metals, household hazardous waste area, and Landfarm. Repairs were made to the Solid Waste Site fencing during September 2014 as discussed during the 2014 AANDC Inspection.

The Hamlet of Whale Cove provides trucked sewage collection service. The current sewage treatment facility is located approximately 450 metres to the southwest of the community. The facility is comprised of a truck offload discharge area, a single-cell lagoon developed within the depression of an existing lake, and a natural wetlands area covering approximately 600 metres before discharging into Hudson Bay. Berms constructed along the east and west banks increase the holding capacity of the lagoon. Natural drainage occurs at the east and west ends of the lagoon, and water drains overland as well as underground through fractures in the rock and between big boulders at the east end back to the community.

The Hamlet of Whale Cove is requesting an amendment to Water Licence No. 3BM-WHA0914 for the expansion of the existing sewage lagoon. The expansion is intended to increase the active storage of the sewage lagoon to approximately 36,161 cubic metres by raising and widening the existing berm on the west end, building up the existing berm at east end with a liner, and building additional berms along the low-lying areas. Expansion of the sewage lagoon will ensure the Licensee complies with Part D, Item 4 of the Licence by maintaining a minimum 1.0 metre freeboard. There will be one decanting pump complete with inlet piping and outlet piping. The lagoon is designed for one year of sewage storage, with a delay of overflow from the lagoon until the wetlands become active. Effluent actively decanted from the sewage lagoon to the wetlands area between August 15 and September 15 of each year will be of improved quality. The expansion of the sewage lagoon has been designed to meet the 20-year requirements of the Hamlet. Construction of the sewage lagoon expansion is anticipated to begin spring 2015 and is scheduled to be completed by the end of 2015.