

EXECUTIVE SUMMARY

Enclosed is a water licence amendment for the Hamlet of Whale Cove (Hamlet), Nunavut. The Hamlet is seeking a ten-year renewal of its current licence which would be valid through 2024. The projected population for the Hamlet in the year 2024 is 482 persons.

Currently, the Hamlet utilizes a sewage treatment facility located approximately 450m to the southwest of the community. It is comprised of a single cell lagoon developed within the depression of an existing lake, and a natural wetlands draining directly to the ocean. Berms were constructed along the east and west banks to increase the holding capacity of the lagoon. The sewage disposal facility consists of a simple truck offload discharge area. The natural drainage appears to be occurring at the east and west ends of the lagoon, water appears to drain overland as well as underground through fractures in the rock and between big boulders at the east end back to the community.

The proposed expansion of the existing sewage lagoon is intended to increase the active storage to approximately 36,161m³. This would be done by raising and widening the existing berm on the west end, the building up of the existing berm at east end c/w liner and building additional berms along the low-lying areas around the perimeter of the existing lagoon to obtain the proper freeboard levels to 1m. There is one truck offload discharge chute, one decanting pump complete with inlet piping and outlet piping. The lagoon is designed for one year of storage of sewage, with a delay of overflow from the lagoon until the wetlands become active. Active decanting of the lagoon is between August 15 and September 15 of each year.

As a component of this licence, the Hamlet seeks to build the expansion to the existing lagoon to meet the 20-year requirements of the Hamlet.