

City of Iqaluit Application for Type A Water Licence Amendment

Executive Summary

The City of Iqaluit (City) is submitting an application for a Type A water licence amendment for the construction and operation of new Solid Waste Management facilities to serve the City's near and long-term (75 years) municipal solid waste (MSW) disposal needs. Founded on a previously completed conceptual design and facility siting exercise, key elements of the project include a solid waste transfer station (WTS) within the City's industrial area, an engineered balefill / landfill site (Landfill) located approximately 6 km Northwest of the City, and an access to the road leading to the Landfill from the WTS, to avoid having the transfer vehicle travel through the City.

Residential and commercial waste will be hauled to WTS for processing and compaction in bales, or in the case of waste wood and cardboard, shredded for use as a fuel source for an on-site biomass boiler. Tires, metal, and some construction and demolition (C&D) wastes will also be shredded and/or baled for landfilling or transported south for recycling. The resulting solid waste bales and possibly a smaller amount of unbaled C&D waste will be trucked to the new Landfill.

Other planned features of the WTS include a public drop off area for household hazardous wastes and a vehicle logger/compactor unit; in both instances allowing for the preparation of waste materials, prior to shipping to approved management facilities in the south.

The engineered Landfill will be sized for the disposal of approximately 2.4 million m³ of baled, wrapped MSW and non-metallic C&D waste and occupies 22 ha. of area, but for the construction/build portion of the project only the first stage of the Landfill (Stage 1 Operational Landfill) will be constructed (e.g., Cell 1 and ancillary components to meet requirements for an initial five years of operation). The construction of the proposed facilities is scheduled to commence in 2020, with facility commissioning occurring in 2022.

An Environmental Management framework to assess, track and document the project's environmental compliance requirements and for the systematic management of environmental risks designed to implement the environmental protection and mitigation measures for the construction, operation and closure phases.