

Technical Summary of the Environmental Facilities under the Water License # 3BM-IGL 0911 (Part B:1.a) of the Hamlet of Igloolik, Baffin Region, Nunavut:

Brian Fleming, Senior Administrative Officer, Hamlet of Igloolik; E-mail: Igloolik@magma.ca

The Hamlet of Igloolik is located at the coordinates of 69°23'N latitude and 81°46'W longitude on the Igloolik Island in the northwest region of Foxe Basin within Baffin Region. The estimated population of this community in 2014 is 1,780. This Community is located within a Zone of continuous permafrost. This Island is composed of dolomitic conglomerate, with sand stone, dolostone and siltstone. The island is at low elevation with numerous ponds and an extensive tidal foreshore.

The Water licence of this Community consists of Water supply, waste water treatment by lagoon process and waste management. These projects are at different stages:

Water Supply: This project consists of a WTFS, Water Storage Reservoir and an intake pipe from south lake to the Water storage Reservoir. The design and construction of the Water Storage Reservoir is on hold. The 99% construction documents for the WTFS and Intake pipe are under review process and these might go for construction in summer 2014. The as-built drawings and O&M manual will be available once construction is complete and commissioned sometimes in 2016. Arktis solutions Inc. is the consultant for this water supply project.

Wastewater Treatment by Lagoon: A three cell exfiltration lagoon is used to treat the entire wastewater produced annually in the Community. The older cell constructed prior to these three cells is still there and sometimes is used in case of emergency. The design for rehabilitation and improvement of the sewage lagoons is complete. This project is on hold to complete the process for construction. exp Solutions Inc. is still retained for this job.

Wastes Management: This facility has two components: Domestic waste site and metal waste site. The new site for the waste management is complete. But this project is on hold due to funding. exp solutions Inc. is still retained for this job.

Hamlet is engaged for extended sampling and testing program for water, wastewater effluent and leachate. They have been using services of Caduceon Environmental Lab, one of the biggest accredited labs in Ottawa.

Hamlet is planning to install signage at all the monitoring stations this summer 2014.

Hamlet is also willing to segregates hazardous wastes like batteries etc. in summer 2014.