Technical Summary of the Environmental Facilities of the Hamlet of Sanikiluaq

Prepared By: Bhabesh Roy., M.A.Sc., P.Eng., MPE, GN-CGS, Baffin Region

Sanikiluaq is located on the North end of Flaherty Island, a large central island of the Belcher islands in Hudson Bay. The geographical co-ordinates are 56^0 32' N latitude and 79^0 14' W longitudes. In relation to other communities, Sanikiluaq is 1,024 air km southwest of Frobisher Bay and 1,282 air Km northwest of Montreal, in the Baffin Region. Typical Arctic Tundra vegetation, predominately mosses and lichens, exists in this area (CWSS, 1981).Past typical mean high and low temperatures for July have been reported at 25.6^0C and 3.3^0C, respectively, while for January mean high and low temperature have been reported at -22.8^0C and -42.8^0C respectively (N.W.T. Data Book,1986/87).

Water supply, Wastewater Treatment by Lagoon, Solid Waste Management by Land fill and Bulk metal site are under the existing Water Licenese of the Hamlet.

Water Supply: Water for domestic use is obtained from Lake Sanikiluaq. This Lake is located near the edge of the Community. Water treatment consists of Chlorination. Hypochloride is used as a disinfectant reagent. O&M manual is available.

Wastewater Treatment Facility (Sewage Lagoon): This facility is located 2.9 km west of the Hamlet. The approximate capacity is 21,600 cubic meters. This Facility discharges effluent through an undefined wetland where it receives additional treatment prior to discharge to the marine environment. Design documents and O&M manual are not available for this Facility at this time.

Solid Waste Management: The domestic wastes are burned twice weekly and the landfill is compacted and covered with sandy soil on a yearly basis. There is no O&M manual as such available.

Bulk Metals: The Hamlet has a designated area to accommodate these wastes. These materials are segregated in an isolated area.