

Appendix D

Monitoring Program Station No. ERK-2

Year: 2010 (As of issuance of licence: June 18, 2010.)

Name: Landfarm Facility

Description: Sampling of Effluent prior to release.

Results:

Between the dates of issuance for **3BC-ERK1015** on June 18, 2010 to December 31st, 2010, there was no intent or plan to discharge any water from the Landfarm Containment. As there were no plans to release effluent from the Landfarm Facility during the time period mentioned above, the collection of samples and analysis were not required for **3BC-ERK1015, Part J, Item 4.**

Notes:

Eureka is located in a polar desert environment, this location receives limited precipitation per year (climate normal 1971-2000 for precipitation: 75.5 mm; Environment Canada, 2010). By the August and September months, evaporation has dominated the landscape promoting the rate of evaporation of water contained in the tank farm secondary containments. By mid September, air temperatures fall below 0 degrees Celsius, any water located in the secondary containment begins to freeze with complete frozen conditions experience by the end of the month.

In addition, there is no plan to discharge any water contained in the Landfarm Containment. The water is reapplied to the contaminated soils contained within the Landfarm during the summer season, as evaporation dominates the environment. The soil is required to be moist in the bioremediation process.

Reference:

Environment Canada. 2010. Canadian Climate Normals (Precipitation) 1971-2000 for Eureka, Nunavut. Accessed online on march 4th, 2011, at:
http://climate.weatheroffice.gc.ca/climate_normals/index_e.html