

Comments Relating to the Sewage Discharge and Wastewater Emissions Targets

Sewage

The CAM-3 DEW Line Site, at Shepherd Bay, Licence (Licence Number NWB5SHE0510 signed February 17, 2005) was referenced to identify sewage effluent targets for this project. Requirements and expectations upon the Department of National Defence (DND) DEW line site clean-up projects are frequently made while establishing Indian and Northern Affairs Canada (INAC) remediation project targets. DND has a long history of having established publicly and regulatory acceptable targets. As well, adoption of the DND criteria was foreseen as a way to simplify the approvals process.

In order to help ensure compliance to the proposed effluent requirements the project proposes a more advanced technology than that required at CAM-3 in that a lined lagoon is being constructed.

The report “Best Available Technology for Sewage Treatment in the North (July 2003) by Feguson, Simek Clark (ISBN 0-662-34746-3) identifies four considerations when selecting a technology

- The effluent quality required. The quality was established through the precedent discussed above.
- Availability of land. The chosen technology satisfactorily balanced the availability of land and the desired “footprint” and control of the sewage treatment process
- Sustained access to trained operators. The manufacturer will be on site to set up the treatment plant. Biogenie already has people trained to operate this unit. This equipment may provide a potential training opportunity for Inuit in the region.
- Cost to build and operate the process- While the process may be slightly more expensive to build than the minimum process, the additional costs were seen to be of value in ensuring control expectations were met.

It is hoped that the project pro-activity in sewage treatment technology does not result in the project being penalized through implementation of more stringent effluent requirements in the licence.

Wastewater

The source of and justification of the wastewater targets used in the Wastewater Discharge Criteria in Section 01561 Section 5.1 in the project specifications will follow under separate cover.