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## Note to Regulatory Stakeholders

Revised August 4, 2005

The City of Iqaluit is proceeding with sewage sludge management planning in preparation for the solids waste stream that will result from the operation of the sewage treatment plant, which is expected to begin operation in 2006. We have retained the services of Earth Tech, who have also completed the engineering work on the sewage treatment plant.

We wish to bring the regulatory stakeholders into the planning process from the onset of the project in order to provide an opportunity for key input as the project progresses, rather than as the project finishes. This is particularly important in the context of sewage sludge management in Nunavut because this is a new waste product that presents a number of challenges.

Our project plan intends to use the following steps.

- 1. Review of existing information
- 2. Technology identification.
- 3. Environmental and land use planning.
- 4. Identification and analysis of options.
- 5. Decision analysis of options.
- Preliminary engineering.

If you would like further details on any of these steps please contact the City, and we may provide a copy of the project methodology.

The planning process will be looking at sludge stabilization technologies that include: aerobic digestion stabilization; anaerobic digestion stabilization; composting stabilization; chemical stabilization; and physical stabilization (See attached Schematic). These categories represent the range of available technologies that will be developed into options for potential application in Iqaluit.

The essence of sludge stabilization is to apply some biological, chemical or physical process to reduce the organic content (primary sludge) and/or inhibit the biological activity (secondary sludge) so that the sludge may be appropriately disposed. Disposal does not necessarily may filling a cell at a landfill - the City intends to consider other appropriate "end uses" that could provide a community benefit.

If you have any particular information to provide to the project at this time, we welcome your input. Please contact Geoff Baker at 867-975-8502 or g.baker@city.iqaluit.nu.ca.

Sincerely,

Brad Sokach, P.Eng. Director of Engineering City of Iqaluit Nunavut Water Board AUG 1 5 2005 Public Registry

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## Iqaluit Sludge Management Planning

## Stabilization Technologies

Aerobic Digestion Stabilization Final Disposal Anaerobic Digestion Stabilization Final Disposal Composting Stabilization Final Disposal Chemical Stabilization Final Disposal Physical Stabilization (freeze/thaw) Final Disposal Igaluit € Earth Tech Revised 2005 07 15