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admin@city.iqalult.nu.ca www.city.iqalult.nu.ca Mr. Phillip di Pizzo Executive Director Nunavut Water Board P.O. Box 119 Gjoa Haven, Nunavut X0B 1J0 Nunavut Water Board JUN 0 6 2005 Public Registry

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INTERNAL

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June 1, 2005

Re: Submission of Additional Information

Dear Mr. di Pizzo:

At the public hearing held on May 12th and 13th in Iqaluit several requests were made to the City of Iqaluit for additional information to be submitted to the Nunavut Water Board (NWB).

Updated Municipal Questionnaire – Water Treatment Plant Commissioning

The original questionnaire submitted to the Nunavut Water Board indicated that the Water Treatment Plant would be commissioned in February 2004. The questionnaire has been updated to reflect the actual commissioning date of May 28, 2004. A copy of the updated questionnaire is provided on the attached compact disc.

2. Emergency Preparedness Plan (EPP) for Lake Geraldine Dam

The EPP is included with the scope of work for the planned modifications (rising) to the dam scheduled for this summer. A copy of the EPP will be provided to the NWB once it is received by the City.

3. Hazardous Waste Management Plan

Section 3.6.5 of the Solid Waste Facility Operation and Maintenance Manual submitted to the NWB on May 20, 2005 discusses hazardous waste, more specifically defining hazardous waste classifications, collection, storage, record keeping and emergency response.

4. Sewage Lift Station Spill Contingency Plan

An updated Sewage Lift Station Spill Contingency Plan is provided on the attached compact disc. The plan has been updated to include the City's current spill response equipment as well as an updated personnel list.





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5. Water Treatment Plant Water Sampling

The City is submitting with this letter water sample results completed by the City's water treatment plant operator as well as water sample results completed by the Government of Nunavut Department of Health and Social services. The results are from samples taken between October of 2003 and January of 2005. The City was unable to obtain results from September 2004. Through a conversation with the department of Health and Social Services it is the City's understanding that a total of 9 samples were taken during September 2004. 5 samples were taken from water trucks, 2 were taken from schools, 1 from raw water and 1 from treated water. One of the water trucks were above acceptable limits, the truck was sanitized, re-sampled and found to be within acceptable limits.

6. Landfill Expansion

The City is submitting with this letter correspondence from Mark Hall, Director of Public Works with the City of Iqaluit, Scott Stewart, Water Resource Officer with Indian and Northern Affairs Canada and Tom Rich, Deputy Minister of the Government of Nunavut's Department of Community and Government Services regarding the expansion of the City's landfill.

The City will meet with officials from the GN Department of Community and Government Services, the GN Department of Justice and INAC to resolve any issues prior to the City using the expansion area as a landfill site.

Solid Waste Bylaw

A copy of By-Law 341 (Solid Waste By-Law) as well as two amendments to the By-Law, By-Law 544 and By-Law 378 is attached to this letter.

8. General Plan Amendments

The City was requested to provide any amendments made to the General Plan since its enactment in June 2003. No amendments have been made as of present.

9. Wastewater Treatment Plant/Sewage Lagoon Contingency Plan

The City has not received direction from the NWB regarding the contents of the sewage lagoon contingency plan as discussed during the technical meetings in 2005. However, on May 30, 2005 Iqaluit City Council approved the construction of the first phase of the Activated Sludge Sewage Treatment Plant (WWTP). Construction of subsequent phases is





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admin@city.iqaluit.nu.ca www.city.iqaluit.nu.ca contingent on the City obtaining funding. The existing sewage lagoon will be kept in use until the first phase of the WWTP is commissioned. The commissioning date is anticipated to be January 2006.

The City will prepare an abandonment and restoration plan for the lagoon including plans to deal with the sludge in the lagoon. Also, subject to Council approval, the City will rehabilitate the lagoon berms and install piping with valves to facilitate the use of the lagoon in the event of a catastrophic failure of the WWTP.

The lagoon rehabilitation will be based on recommendations provided in the Dam Safety Review completed by Trow Associates Ltd. in October of 2002 and the Dam Safety Inspection completed by Concentric Associates International in February of 2005.

Subject to Council approval, the City is proposing to implement the following recommendations:

Develop as-built drawings with a detailed site plan and dyke cross sections at various locations indicating the geometry and material properties of the structures.

- Reinforce the downstream side of each of the dykes with a course, free draining rock fill buttress, with a non-woven geotextile placed along the existing downstream slope to act as a filter to prevent soil from migrating though the rock fill.
- 3. Prevention of erosion of the downstream toe of the west dyke. This may be achieved by providing rip-rap which is capable of withstanding the tidal fluctuations and is properly designed to prevent loss of berm material.

Ensure that the discharge outlet is of sufficient size such that the flow can be adjusted to prevent overtopping of the berms.

10. Water Treatment Plant As-Built Drawings

A copy of the As-Built drawings for the water treatment plant are provided on the attached compact disc.

11. Dam Repair Letter

The letter regarding the leak repairs which was previously submitted to the NWB was undated and did not indicate the author. The letter was written by Dillon Consulting and submitted to the City on November 24, 2004.





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12. Lake Geraldine Preliminary Design Report and Geotechnical Investigation

A copy of the preliminary design report and the geotechnical investigation was provided on a disc to the NWB on May 13, 2005.

13. Sewage Lagoon Geotechnical Report

A copy of the Geotechnical Investigation Report for the sewage lagoon which was performed in 2003 is being resubmitted with this letter on the attached compact disc.

14. Meaning of "Acutely Toxic" in Earth Tech Letter of October 12, 2004

Attached is an email from Earth Tech further explaining their use of the term "Acutely Toxic" when discussing sewage sludge from the proposed sewage treatment plant.

Generally, the term 'acutely toxic' is meant to be similar to the Occupational Health & Safety (OH&S) term of "Immediately Dangerous to Life and Health" (IDLH).

15. Conclusion

The City appreciates the opportunity to respond to the questions and comments raised by the NWB. If you have any questions, concerns or require any clarification to the information contained in this letter please do not hesitate to contact the undersigned.

Regards,

Geoff Baker

Acting Manager, Capital

Projects

City of Iqaluit

Director of Engineering

Cita Clark's

City of Iqaluit

Cc. Ian Fremantle, CAO, City of Iqaluit

Elisapee Sheutiapik, Mayor, City of Iqaluit

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