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January 7, 2014

Paul Clow
Project Officer
Engineering Department
City of Iqaluit
Box 460
Iqaluit, NU X0A 0H0

Dear Paul:

Project No: 60156918

Regarding: Iqaluit Landfill – Drainage Improvements

This letter report provides the results of the final inspection of the dyke constructed as part of the drainage improvement project at the Iqaluit Landfill. The inspection was carried out by AECOM in September 2013.

The scope of work on this project involved the reconstruction of an existing dyke to contain contaminated water within the landfill, and installation of a fence along the top of the dyke. The new dyke is constructed with granular material. It incorporates an impermeable liner installed on the surface along the upstream slope, and a new fence runs along the crest.

The results of the inspection indicate that the dyke appears to have been built in general conformance with the contract documents. The constructed side slopes appear to be a little steeper on both sides of the dyke than shown on the design drawings. A survey of the dyke is required to confirm the slope angles. It appears that the sides slopes were constructed steeper because of site limitations – a pile of garbage along the inside and rock outcrops along the outside. The fence appears adequate.

The structure appears to function satisfactorily as a water retaining structure. Although it is built of granular material, the impermeable liner will help control flow and permafrost is expected to rise inside the dyke and contribute further to its impermeability. As a part of the landfill operations and maintenance, the dyke should be inspected annually for signs of leakage or instability, preferably in late August or early September.

We trust this letter report will satisfy your requirements. Please call me at 867-873-6316, Ext 22, if you have any questions or wish to discuss in more detail.

Sincerely,
AECOM Canada Ltd.

Prepared by:

Reviewed by:



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