

Nunavut Excavating 2007 Inc.
1825 Federal Road,
Iqaluit, Nunavut.
X0A 0H0

Date: September 02, 2020

Subject: Hall Beach Sewage Lagoon Cell 1 Post Remediation Leak Test

Cell 1 Remediation

Cell 1 Geo-synthetic Clay Liner (GCL) was remediated along the existing GCL joints (overlaps). Any existing damaged GCL was overlapped by installing new GCL over the damaged areas later in July 2020 and August 2020.

Proposed Cell 1 Leak Test - Post Remediation

- ◆ Pump fresh water (saline-free) into Cell 1 from adjacent ponds after this proposed source is approved by the NWB;
 - ◆ Stop pumping water when the water level in Cell 1 has reached a target depth (i.e., 300 to 500 mm above floor or specific elevation);
 - ◆ Mark the water elevation at four (4) corners of Cell 1 ;
 - ◆ Monitor and Record the water level/elevation and temperature daily for 7 consecutive days;
 - ◆ Record daily weather (temperature range) including total precipitation for the last 24 hour;
 - ◆ Observer daily any water leakage downstream of the sewage lagoon dykes, particularly at the previous leakage discharge location (Emergency Spillway downstream dykes under the gabion mat,);
 - ◆ Record and report any other activities in Cell 1;
 - ◆ Take daily photographs of the Cell 1 and any leakage location downstream; and
 - ◆ Report the above daily monitoring and observation.
 - ◆ Water usage for this test is anticipated to be approx 4,000 cu.m.
 - ◆ Identified water source surface area is aprox 70,000 sq.m assuming an average depth of water of 0.05m is available for pumping, the identified
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water source would be sufficient to provide the required water for leakage testing.

A handwritten signature in black ink that reads "Glen Molloy". The signature is written in a cursive style with a large initial 'G' and a stylized 'M'.

Glen Molloy, Manager



FRESH WATER SOURCE FOR LAGOON LEAKAGE TESTING
HALL BEACH LAGOON, NU.