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Mason Mantla, Chair  
Wek'èezhii Land and Water Board  
PO Box 32  
Wekweètì, NT X0E 1W0, Canada

13 May 2022

Dear Mr. Mantla:

**Re: DDMI PKCF Update – 2022 Freshet**

Diavik Diamond Mines (2012) Inc. (DDMI) hereby submits to the Wek'èezhii Land and Water Board's (WLWB or Board) an update on the state of the Processed Kimberlite Containment Facility (PKCF) during 2022 freshet as part of DDMI's biweekly reporting to the WLWB as per the WLWB approved Processed Kimberlite Management Plan Version 6.1.

**Status of 2022 Freshet**

- Freshet has not commenced but daytime high temperatures have ranged between -9 °C and +4 °C over the last week.

**Current Status of PKCF Water Balance**

- ~9,400 m<sup>3</sup> of North Inlet water added per day as part of the Fine Processed Kimberlite (FPK) slurry.
- ~3,300 m<sup>3</sup> of Raw Lac de Gras water added per day as part of the FPK slurry and Coarse Processed Kimberlite (CPK).
- ~345 m<sup>3</sup> per day of PKCF intercepted water recycled back into the PKCF as part of the FPK slurry.
- ~345 m<sup>3</sup> per day of PKCF intercepted water removed from the PKCF.
- ~13,500 m<sup>3</sup> per day of PKCF surface water pumped from the Northwest Decant Sump to the North Inlet.

**Current Status of PKCF and Pond 3 Storage Capacities in Comparison to the Storage Capacity Required to Safely Manage the EDF and IDF**

- Combined PKCF and Pond 3 Catchment IDF (Inflow Design Flood) required storage volume = 780,000 m<sup>3</sup>.
- ~250,000 m<sup>3</sup> of available water storage capacity within the PKCF.

- ~916,000 m<sup>3</sup> of available water storage capacity within Pond 3.
- ~136,000 m<sup>3</sup> of available water storage capacity above what is required to store the IDF within Pond 3.

## **Description of Ongoing and Planned Water Management Activities**

In accordance with the TARP, DDMI has implemented the following responses to manage the current conditions:

- The Northwest (NW) Decant Sump has been operational since May 2, 2022 and pumping at its maximum capacity of ~13,500 m<sup>3</sup> per day since May 6, 2022.
- Survey of NW Decant Sump Pond elevation every day as required.
- Ensure that the Spillway is open and free of obstructions.
- Regular PKCF Water Management Plan operational reviews and contingencies development with support from Engineer of Record.
- Construction of PKC Spillway chute into Pond 3 is ongoing.

## **State of Compliance with PKCF Plan V6.1 and Related Diavik Water Licence Conditions during 2022 Freshet**

- DDMI has activated an internal Trigger Action Response Plan (TARP) to closely manage the pond elevation in the NW Decant Sump, processed kimberlite deposition, and Pond 3 storage capacity for an IDF.
- DDMI completed a test of the emergency response plan (ERP) for the PKCF in March 2022 in advance of the 2022 freshet. The test focused on emergency response actions to be implemented in a sunny day breach at the west dam of the PKCF scenario.

Please do not hesitate to contact the undersigned if you have any questions regarding this submission.

Yours sincerely,



Kofi Boa-Antwi  
Superintendent, Environment

cc: Marie-Eve Cyr, WLWB  
Anneli Jokela, WLWB  
Joseph Heron, GNWT Lands

Drone Photo – Looking East at PKCF Spillway and NW Decant Sump (May 10, 2022)



**Drone Photo – Looking Northwest at PKCF Spillway, and Pond 3 (May 10, 2022)**

