

**IEMA Annual General Meeting
December 4, 2019**

2018-19 Communications Update

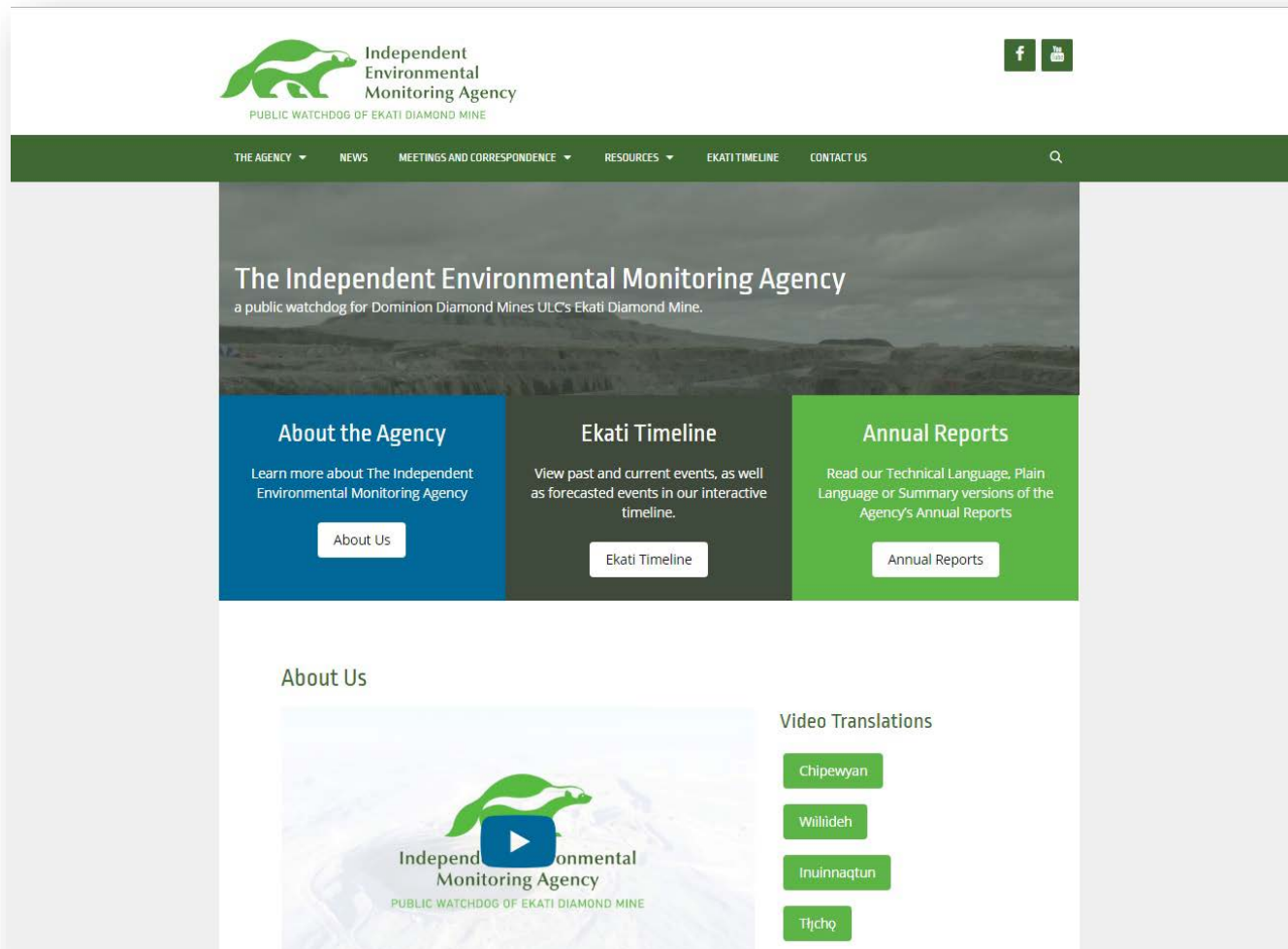
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Publications



Website



www.monitoringagency.net

Facebook



- Celebrated surpassing 100 followers with a give-away



ICRP Version 3.0 Community Info Sessions



IEMA Info Session: Ekati Mine Closure & Reclamation Plan

Community Information Session Schedule

- January 8, 2019 - 6pm: Whati, NT - Culture Centre
- January 10, 2019 - 6pm: Dettah, NT - Chief Drygeese Centre
- January 14, 2019 - 6pm: Behchoko, NT - Community Hall
- To Be Determined: Kugluktuk, NU



The Independent Environmental Monitoring Agency invites you to an info session about Ekati's draft *Interim Closure & Reclamation Plan* (ICRP), Version 3.0.

~ Door prizes, and supper will be provided. ~

Important Dates for ICRP V. 3.0:

- January 22-23, 2019
 - Technical Workshop (Yellowknife)
- February 21, 2019
 - Comments Due to the Wek'èezhii Land & Water Board

Questions? Want more information? Give us a call at 867-669-9141, or e-mail us at monitor2@monitoringagency.net



Dettah –
January 10,
2019



Whati – January 8,
2019

ICRP Version 3.0 Community Info Sessions, continued

Ekati Mine Interim Closure & Reclamation - Open Pits: Types of Closed Pits

Definitions:

Meromictic Lakes/Meromixis - If a lake is 'meromictic' it usually means that the water at the bottom of the lake contains dissolved salt. This means there is a difference in density between the water at the top and bottom. The water in this type of lake generally does not mix. The effect may be increased by the size, shape, and orientation of the basin of the lake. For example, a deep hole in a shallow basin, or a lake that is not exposed to wind will be more likely to remain unmixed.

Holomictic Lakes - Lakes that have stratified layers of different temperatures of water that mix, usually twice a year with seasonal temperature changes. Most lakes are holomictic.

Closed Pits - Processed Kimberlite Fill

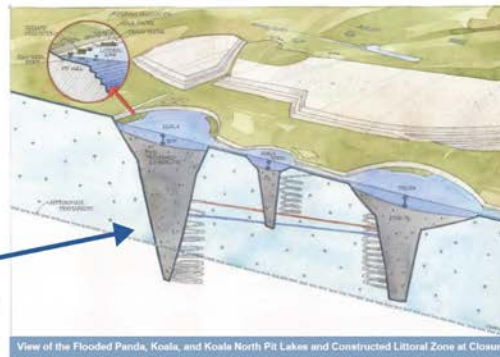
Some of the pits at the Ekati site will be filled with processed kimberlite before being capped off with water. This will result in relatively shallow lakes that should be mostly holomictic.

The pits that are slated for processed kimberlite fill before a cap of water are:

- Beartooth
- Panda
- Koala
- Koala North



What processed kimberlite slurry looks like at the Ekati mine site.



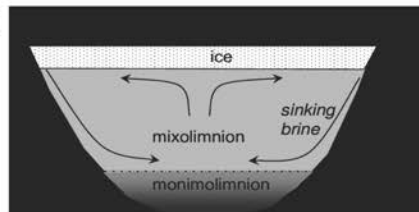
View of the Flooded Panda, Koala, and Koala North Pit Lakes and Constructed Littoral Zone at Closure

Closed Pits - Mine Water & Fresh Water Fill

Water entering the pits will be pumped in from nearby lakes, as well as from snow melt, rain, drainage from pit walls and waste rock piles. This makes water quality and the chance of meromixis forming difficult to predict.

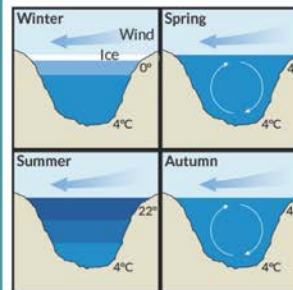
The pits that are to be filled with water only are:

- Fox
- Jay (if opened)
- Misery
- Lynx
- Pigeon
- Sable



Lakes that are particularly deep, as the water-filled pits will be, tend to settle into layers that never or rarely mix. It is thought that the brine or dissolved solids will settle to the bottom and remain there, leaving the water on surface relatively clean.

Typical Holomictic Lake Cycle



Holomictic lakes tend to mix or "turn over" twice a year as temperatures fluxuate between seasons. As denser, cooler water warms, it rises. Wind also plays a role in the mixing cycle.

Many photos and figures taken directly from Dominion Diamond Ekati L.L.C.'s ICRP Version 3.0

Questions or Comments? Feel free to contact us: 867-669-9141 or monitor1@monitoringagency.net. Find us online at www.monitoringagency.net.



Example of one of 7 summarizing posters of Dominion's ICRP V 3.0

Coming Up...

- More regular contact with Society Members and communities
 - Keep everyone posted on upcoming reviews and being available for discussion.
- Workshop in February
 - Discussing wildlife and closure in regards to Version 3.0 of the Interim Closure and Reclamation Plan



Questions or Suggestions?



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