

Angela Love

From: Prather, Colleen <Colleen.Prather@debeersgroup.com>
Sent: September-13-19 2:49 PM
To: Bill Pain
Cc: Rick Walbourne; Lara Fletcher (lara.f@telus.net); McLean, Sarah; Peters, Michelle; Whitaker, Sean; Angela Love
Subject: RE: Follow up from meeting - Snap Lake Memo
Attachments: Pain_Prather-SnapLake-Security Memo_2019-09-13.pdf

Hi Bill

One of your earlier requests was on the quantity of organic matter required for the constructed wetlands. We have finished our calculations and I am providing you with an update to the information supplied on 3 September 2019.

Please let me know if you have any questions with the attached.

Regards, Colleen

From: Prather, Colleen
Sent: Tuesday, September 3, 2019 9:54 PM
To: Bill Pain <Bill_Pain@gov.nt.ca>
Cc: Rick Walbourne <Rick_Walbourne@gov.nt.ca>; Lara Fletcher (lara.f@telus.net) <lara.f@telus.net>; McLean, Sarah <Sarah.McLean@debeersgroup.com>; Peters, Michelle <Michelle.Peters@debeersgroup.com>; Whitaker, Sean <Sean.Whitaker@debeersgroup.com>; Angela Love <angela.love@mvlwb.com>
Subject: RE: Follow up from meeting - Snap Lake Memo

Hi Bill

In follow up to our discussions on August 26, please find attached a memorandum providing the clarifying information to the outstanding questions.

Please let me know if you have any questions with the attached.

Regards, Colleen

From: Bill Pain <Bill_Pain@gov.nt.ca>
Sent: Friday, August 30, 2019 1:45 PM
To: Prather, Colleen <Colleen.Prather@debeersgroup.com>; McLean, Sarah <Sarah.McLean@debeersgroup.com>
Cc: Rick Walbourne <Rick_Walbourne@gov.nt.ca>; Lara Fletcher (lara.f@telus.net) <lara.f@telus.net>
Subject: Follow up from meeting - Snap Lake Memo

Hello Colleen and Sarah,

During our meeting this past Monday, you indicate that De Beers was intending to submit a memo clarifying or updating a few items that were discussed. For example, I believe it was around Constructed Wetlands Maintenance

De Beers and ENR to review transcripts to see what was said with respect to use of organic stockpile in its entirety for reclamation.

Action - De Beers to correct via a memo or otherwise to align the schedule provided in the FCRP for demolition etc. with the financial liability estimate

Action - De Beers to confirm that quantity of suitable material for constructed wetlands is available on site.

When do you expect ENR could see this memo or updated information?

Regards,

Bill

Mársı | Kinanāskomitin | Thank you | Merci | Hąı' | Quana | Qujannamiik | Quyanainni | Máhsı | Máhsı | Mahsi

Bill Pain, M.Sc., E.P.

Environmental Scientist

Water Management and Monitoring Division

Department of Environment and Natural Resources

Government of the Northwest Territories

3rd floor, Scotia Building

PO Box 1320

5102 50th Ave.

Yellowknife, NT X1A 2L9

Phone: 867-767-9234 Ext. 53117

Fax: 867-873-4229

www.gov.nt.ca

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please delete it immediately and notify us by telephone. Thank you

The information contained in this e-mail is confidential and may be subject to legal privilege. If you are not the intended recipient, you must not use, copy, distribute or disclose the e-mail or any part of its contents or take any action in reliance on it. If you have received this e-mail in error, please e-mail the sender by replying to this message. All reasonable precautions have been taken to ensure no viruses are present in this e-mail and the sender cannot accept responsibility for loss or damage arising from the use of this e-mail or attachments.

DE BEERS GROUP

September 12 2019

Bill Pain
Environmental Scientist
Department of Environment and Natural Resources
Government of the Northwest Territories
3rd floor, Scotia Building
5102 50th Ave.
Yellowknife, NT X1A 2L9

Dear Mr. Pain:

Re: Water License (MV2019L2-0004) Application and Final Closure and Reclamation Plan

A meeting was held on 26 August 2019 between De Beers Canada Inc. (De Beers) and the Government of the Northwest Territories, Environment and Natural Resources (GNWT-ENR) to discuss the closure estimate submitted with the Final Closure and Reclamation Plan (FCRP) for the Snap Lake Mine (the Mine). An outcome of that meeting was to provide clarification on a few items including: the quantity of organics and maintenance during Post-closure to understand De Beers approach to staged reduction of financial security. A letter was issued on 3 September 2019 to provide information on all but one of the identified items.

This letter is an update to letter issued on 3 September 2019 with additional information on the quantity of organic matter required for the constructed wetlands, and if it is available on-site or will need to be brought from off site.

We trust this information will meet the need to enable your further review, but should you require further information or have any questions or concerns, please feel free to contact me by phone at (403)-464-2596 or by email at colleen.prather@debeersgroup.com.

Sincerely,



Colleen Prather, Ph.D., P.Biol.
Regulatory Specialist

De Beers Canada inc.

1601 Airport Road NE Suite 300 Calgary Alberta T2E 6Z8
Tel + 1 403 930 0991 | www.debeersgroup.com/canada | info.canada@debeersgroup.com
Incorporated in Canada | Registration number 889569596

A member of the Anglo American plc group

DE BEERS GROUP

Cc: Angela Love, MVLWB
Sarah McLean, De Beers
Michelle Peters, De Beers
Sean Whitaker, De Beers

DE BEERS GROUP

1. ORGANICS

GNWT-ENR would like clarification on:

- A. the quantity of material in the organics Stockpile at the Mine available for reclamation and if the entire stockpile will be used;
- B. the quantity of overburden required for reclamation; and
- C. the quantity of organic matter required for the constructed wetlands and if it is available on-site or will need to be brought from off site.

Response to items A and B were provided in the 3 September 2019 letter. Information for item C is provided here.

If wetlands are required, approximately 52,149 m³ of organics will be required (Table 1). This material will be sourced from the local areas north and south of the West Cell Divider Dyke, within the West Wetland footprint, and the Organic Stockpile. The low quality organic material will be improved with a soil amendment. De Beers is currently investigating and evaluating the benefits of various types of soil amendments to determine the best option for the Snap Lake Mine.

If wetlands are not required, no organics will be required because no vegetation soil will be needed.

Table 1. Estimated Quantity of Organic Matter Required and Available

Scenario	Item	Source	Low Quality Soil	High Quality Soil	Total Soil (Low and High Quality)
With Wetlands	Estimated Required Volume (m ³) For West and East Wetlands	-	5,875	46,274	52,149
	Estimated Total Soil Volume (m ³) Available	West Wetland	27,000	6,200	33,200
		West Cell Divider Dyke (North)	0	6,120	6,120
		West Cell Divider Dyke (South)	0	5,000	5,000
		Organic Stockpile	7,829	0	7,829
		Total Available	34,829	17,320	52,149
Without Wetlands	Estimated Required Volume (m ³)	-	0 (no wetlands)	0 (no wetlands)	0
	Estimated Total Soil Volume (m ³) Available	-	0 (sourcing not required)	0 (sourcing not required)	0