



Snap Lake Environmental Monitoring Agency
Main Floor, Lahm Ridge Tower
4501 Franklin Avenue
P.O. Box 95, Yellowknife, NT X1A 2N1
Phone: 867-765-0961 FAX: 867-765-0963
Website: www.slema.ca

Jamie Steele
Resource Management Officer III
GNWT Lands
#16 Yellowknife Airport
Yellowknife, NT X1A 3T2

File: Water Licence MV2011L2-0004

May 4, 2015

Re: Potential Exceedance of TDS at SNP 02-18 in January 2015

Dear Mr. Steele,

The Snap Lake Environmental Monitoring Agency (SLEMA) updated its water quality model to predict whole lake average (SNP 02-18) of Total Dissolved Solids (TDS) in November 2014 and made a prediction as follows.

- “Based the TDS prediction and the TDS exceedance in late winter of 2014, SLEMA believes that the whole lake average of TDS will exceed the water licence limit (350 mg/L) again in 2015 and in the ice-cover season of the following years.”

SLEMA requested De Beers to demonstrate its compliance on November 27, 2014.

- <http://www.slema.ca/wp-content/uploads/2014/01/20141127-Letter-to-De-Beers-on-SLEMA-Modeling-Update.pdf>

De Beers responded on December 15, 2014 that De Beers would attempt to conduct a sampling program in early January.

- http://www.slema.ca/wp-content/uploads/2014/01/Response-to-SLEMA_whole-lake_15Dec2014.pdf

SLEMA analyzed the TDS data at SNP 02-20 from the January 2015 SNP Monthly Report and believed that TDS level at SNP 02-18 might exceed the current water licence limit of 350 mg/L. As a result, SLEMA, on March 2, 2015,



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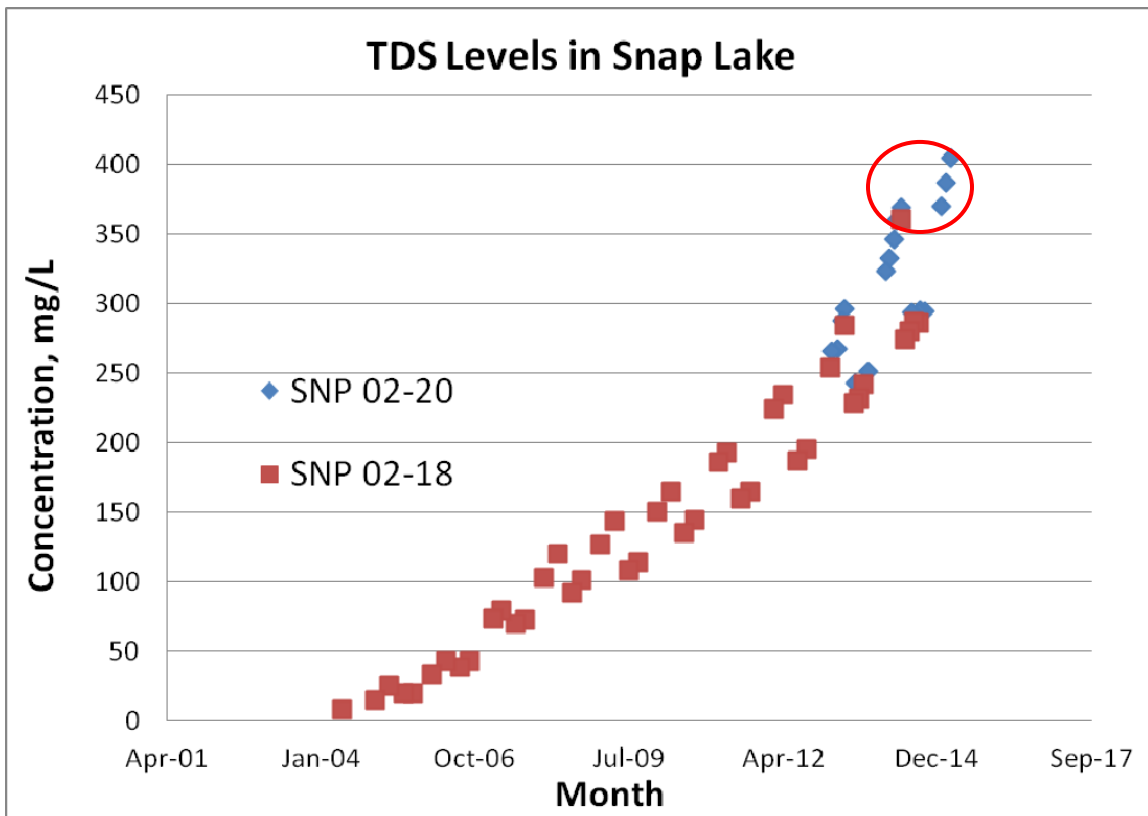
requested an update on De Beers' attempt to conduct sampling in January and February 2015.

- <http://www.slema.ca/wp-content/uploads/2015/01/20150302-TDS-at-SNP-02-18.pdf>

De Beers responded on March 5, 2015 that cold weather resulted in the cancellation of sampling in January and February 2015, and next planned SNP 02-18 sampling would be conducted in May 2015 as required by Water Licence MV2011L2-0004.

- <http://www.slema.ca/wp-content/uploads/2015/01/030315-Letter-to-the-SLEMA-Whole-Lake-average-sampling-FINAL1.pdf>

SLEMA further analyzed the TDS data at SNP 02-20 from the February and March 2015 SNP Monthly Reports and is of the opinion that TDS level at SNP 02-18 may have exceeded the current water licence limit of 350 mg/L since January 2015.





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In light of the above, SLEMA recommends that the Inspector initiate an investigation to confirm De Beers' compliance to its water licence.

If you have any questions whatsoever please feel free to contact Philippe di Pizzo at 867-765-0961 / exec@slema.ca.

Sincerely,

Original signed by

Johnny Weyallon
Chairman