

Diavik Diamond Mines (2012) Inc.
P.O. Box 2498
300, 5201- 50th Avenue
Yellowknife, NT X1A 2P8
Canada
T (867) 669 6500
F (867) 669 9058

Violet Camsell-Blondin, Chair – Wek’eezhii Land and Water Board
#1, 4905 – 48th Street
Yellowknife, NT X1A 3S3

22 October 2015

Dear Ms. Camsell-Blondin:

Subject: WL2015L2-0001 – SNP 1645-18/18B Sewage Parameter Sampling Frequency

On June 18, 2012 the WLWB amended the SNP of WL2007L2-0003 to allow for the collection and analysis of sewage related parameters from 1645-18/18B from every 6 days to every 7 days. The change was requested by Diavik Diamond Mines (2012) Inc. (DDMI) due to the short laboratory hold times of the required analysis.

9. During periods of discharge, effluent at Station Number 1645-18 shall be sampled:

a) Every six (6) days and analyzed for the following; and

Total Arsenic	Nutrients ⁵
Dissolved Organic Carbon	Total Mercury
pH ⁴	
Dissolved Oxygen	Total Organic Carbon
Field Parameters ²	Total Suspended Solids
ICP-MS Metal Scan ¹ (Total and Dissolved)	
Major Ions ²	Turbidity

b) If the Licencee directs Sewage Treatment Facilities effluent to Lac de Gras (either alone or as part of a larger effluent stream), then the Sewage Treatment Facility effluent shall also be sampled every seven (7) days and analyzed for the following:

Faecal Coliforms
BOD₅
Oil and Grease

Surveillance Network Program (SNP) Station 1645-18/18B (Active)

Description:	Main effluent Discharge to Lac de Gras from NIWTP (point of compliance)		
Location:	North Inlet Water Treatment Plant Splitter box location		
Sampling Frequency:	Every six (6) days		Quarterly or monthly
Sampling Parameters:	Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity, Total Petroleum Hydrocarbons (TPH)	Additionally, if effluent from Sewage Treatment Facilities are directed to Lac de Gras... Faecal Coliforms, BOD ₅ , Oil and Grease	1. In accordance with Part H, Item 7(a) and (b) ^a 2. Chronic toxicity ^b
Rationale for Station:	This information is required to confirm compliance with EQC, and can also provide information about effectiveness of treatment plant.		

^a Samples of effluent shall be provided to an accredited bioassay laboratory for the purpose of performing the following acute toxicity tests at the specified frequencies:

June 18, 2012 WL2007L2-0003 Amended SNP

WL2015L2-0003 SNP

The SNP for WL2015L2-0001 requires the collection and analysis of samples from 1645-18/18B for sewage related parameters (BOD₅, Oil and Grease and Fecal Coliforms) every 6 days when sewage effluent is directed to Lac de Gras.

DDMI requests that the SNP for WL2015L2-0001 be updated to reflect the June 18, 2012 amendment. In the meantime DDMI will continue to collect samples for the analysis of sewage parameters on a seven day frequency unless directed otherwise by the WLWB.

If you have any questions regarding the above, please contact the undersigned.

Yours sincerely



David Wells
Superintendent, Environment

Cc: Ryan Fequet/Sarah Elsasser, WLWB