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January 2, 2014

Phyllis Beaulieu,  
Manager of Licensing  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU  
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**Re: November 2013 – Monthly Monitoring Report for Water Licence 2BE-HOP1222**

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**Part I Conditions Applying to Abandonment and Restoration**

No reclamation work was completed at Windy Camp this month.

**Part J Items 2, 3, 4, 5, 6, 10: Sewage Treatment Effluent, Bulk Fuel Containments, and Quarries**

Windy Camp has been closed for operations since October 23, 2008; therefore the licence requirements relating to the WWTF (HOP-2 and HOP-3) are not applicable. HOP-5 (Bulk Fuel Storage – Windy Camp) and HOP-6 (Bulk Fuel Storage Facility – Patch Lake) were dismantled in 2012. HOP-8 has not been constructed. Water quality sampling and management was not required at HOP-7A, B or D (quarries A, B and D) as no water was observed at these sites.

**Part J Item 7: Under-Ice Drilling Samples**

Not applicable at this time of year, no on-ice drilling has begun.

**Part J Item 8: Water Use Volumes**

In November, water was extracted from Windy Lake for use at Doris Camp (Table 1). Drilling for 2013 ended on October 24. Water was additionally used from various sources for ice road construction.

The water quality results from HOP-1 are presented in Table 2.

Table 1: Daily water usage from Windy Lake, in cubic meters, October 2013

Date	Volume (m <sup>3</sup> )
1-Nov-13	0
2-Nov-13	0
3-Nov-13	0
4-Nov-13	0
5-Nov-13	0
6-Nov-13	0
7-Nov-13	34
8-Nov-13	0
9-Nov-13	0
10-Nov-13	0
11-Nov-13	28
12-Nov-13	14
13-Nov-13	0
14-Nov-13	0
15-Nov-13	28

16-Nov-13	0
17-Nov-13	0
18-Nov-13	0
19-Nov-13	0
20-Nov-13	14
21-Nov-13	0
22-Nov-13	0
23-Nov-13	0
24-Nov-13	0
25-Nov-13	0
26-Nov-13	24
27-Nov-13	0
28-Nov-13	0
29-Nov-13	0
30-Nov-13	0

Table 2: HOP-1 Water Quality Sample Results, November 2013

Sample ID		HOP1-05NOV13
ALS ID		L1388036-1
Date Sampled		11-05-2013 9:40:00 AM
Parameters	Units	Results
Conductivity (EC)	uS/cm	475
Hardness (as CaCO <sub>3</sub> )	mg/L	80.0
pH	pH	7.8
Total Suspended Solids	mg/L	<3.0
Ammonia, Total (as N)	mg/L	<0.050
Nitrate (as N)	mg/L	<0.050
Nitrite (as N)	mg/L	<0.050
Orthophosphate-Dissolved (as P)	mg/L	<0.0010
Phosphorus (P)-Total	mg/L	<0.020
Cyanide, Total	mg/L	<0.0050
Cyanide, Free	mg/L	<0.0050
Fecal Coliforms	CFU/100mL	<1
Aphanizomenon (Cyanophyceae)	cells/mL	6
Total cyanobacterial cell count	cells/mL	37
Pseudoanabaena (Cyanophyceae)	cells/mL	31
Aluminum (Al)-Total	mg/L	0.0163
Antimony (Sb)-Total	mg/L	<0.00040
Arsenic (As)-Total	mg/L	<0.00040
Barium (Ba)-Total	mg/L	<0.0030
Beryllium (Be)-Total	mg/L	<0.0010
Boron (B)-Total	mg/L	0.053
Cadmium (Cd)-Total	mg/L	<0.000010
Calcium (Ca)-Total	mg/L	13.9
Chromium (Cr)-Total	mg/L	<0.0010
Cobalt (Co)-Total	mg/L	<0.0020
Copper (Cu)-Total	mg/L	<0.0010
Iron (Fe)-Total	mg/L	0.011
Lead (Pb)-Total	mg/L	<0.00010
Lithium (Li)-Total	mg/L	<0.010
Magnesium (Mg)-Total	mg/L	9.97
Manganese (Mn)-Total	mg/L	<0.0020
Mercury (Hg)-Total	mg/L	<0.000020
Molybdenum (Mo)-Total	mg/L	<0.0050
Nickel (Ni)-Total	mg/L	<0.0020
Potassium (K)-Total	mg/L	4.34

Sample ID		HOP1-05NOV13
ALS ID		L1388036-1
Date Sampled		11-05-2013 9:40:00 AM
Parameters	Units	Results
Selenium (Se)-Total	mg/L	<0.00040
Silver (Ag)-Total	mg/L	<0.000020
Sodium (Na)-Total	mg/L	55.1
Thallium (Tl)-Total	mg/L	<0.00010
Tin (Sn)-Total	mg/L	<0.050
Titanium (Ti)-Total	mg/L	<0.0010
Uranium (U)-Total	mg/L	0.00017
Vanadium (V)-Total	mg/L	<0.0010
Zinc (Zn)-Total	mg/L	<0.0040
Calcium (Ca)-Dissolved	mg/L	14.3
Magnesium (Mg)-Dissolved	mg/L	10.7
Biochemical Oxygen Demand	mg/L	<2
Oil and Grease	mg/L	<1.0
Oil And Grease (Visible Sheen)		NO VISIBLE SHEEN
Microcystin	ug/L	<0.20

### Incident Reporting

No incidents pertaining to this licence occurred this month.

Should there be any questions regarding this monthly report, please contact Katsky Venter or Lea-Marie Bowes-Lyon, ESR Site Managers for TMAC Resources Inc. at (867) 988-0569 or [Katsky.Venter@tmacresources.com](mailto:Katsky.Venter@tmacresources.com) or [Lea-Marie.Bowes-Lyon@tmacresources.com](mailto:Lea-Marie.Bowes-Lyon@tmacresources.com).

Yours sincerely,



**Katsky Venter**

Site Environmental Manager  
Hope Bay Project