



January 30, 2011

Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Water Resources Officer, INAC
Nunavut District, Nunavut Region
P.O. Box 100
Iqaluit, NU X0A 0H0

RE: Water License 2BB-MRY0710 Monthly SNP Report – December 2010

Following is the monthly report for December 2010 as required under Part I, Item 19 of Water License 2BB-MRY0710.

SNP Sampling

During the month of December 2010, samples were collected at MRY-4 as part of the SNP sampling program. Table 1 presents a list of samples/monitoring required under the Water License and the details concerning which water quality samples have been collected along with sample date/lab identification number as appropriate. Analytical water quality testing results received as part of the SNP program, are presented in Table 2. Volumes consumed for domestic water purposes at Mary River have been collected and are attached in Table 3.

SNP Results

A) Water Sampling and Analysis Results

Table 2 provides the results related to SNP sampling requirements for December 2010.

B) Flow and Volume Measurements

Table 3 provides a breakdown of volume measurements as requested in Part I, Item 7 of the water license for December 2010.

We hope that the information provided in this monthly report is acceptable and should you have any questions regarding this report please contact Jim Millard at 902-403-1337 or by e-mail at jim.millard@baffinland.com.

Regards,

A handwritten signature in black ink, appearing to read "J. Millard", written over a horizontal line.

James Millard, M.Sc., P.Geo.
Senior Environmental Superintendent

Attach: Tables 1, 2 and 3 (three pages)
Cc: Bryan Rayner, Stephen Bathory QIA

Baffinland Iron Mines Corporation

Suite 1016 120 Adelaide Street West, Toronto, ON Canada M5H 1T1
Tel: +1 (416) 364-8820 • Fax: +1 (416) 364-0193
www.baffinland.com



Table 1: SNP Water Sampling Summary

SNP Station	Sampling Date	Lab ID#	Comment
MRY-1	N/A	N/A	Volume reported daily
MRY-2	N/A	N/A	N/A for December
MRY-3	N/A	N/A	N/A for December
MRY-4	9-Dec-10	846957 846963	Volume reported daily
	30-Dec-10	855745	
MRY-401	30-Dec-10	855746	Duplicate of MRY-4
MRY-402	9-Dec-10	846959 846965	Field Blank of MRY-4
MRY-403	9-Dec-10	846960 846966	Travel Blank of MRY-4
MRY-5	N/A	N/A	N/A for December
MRY-6	N/A	N/A	N/A for December
MRY-7	N/A	N/A	N/A for December
MRY-8 / 9	N/A	N/A	N/A for December
MRY-10	N/A	N/A	N/A for December
MRY-11	N/A	N/A	N/A for December
MRY-12	N/A	N/A	N/A for December
MRY-13	N/A	N/A	N/A for December

Table 2. Water Chemistry Results - December 2010

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
851892	MRY-4	9-Dec-10	Faecal Coliforms	<10	CFU/100 ml	Exova Accutest
851898	MRY-4	9-Dec-10	Biological Oxygen Demand	1	mg/L	Exova Accutest
851898	MRY-4	9-Dec-10	pH	8.14	pH units	Exova Accutest
851898	MRY-4	9-Dec-10	Total Suspended Solids	5	mg/L	Exova Accutest
851898	MRY-4	9-Dec-10	Oil and Grease	<1	mg/L	Exova Accutest
851893	MRY-402	9-Dec-10	Faecal Coliforms	<10	CFU/100 ml	Exova Accutest
851900	MRY-402	9-Dec-10	Biological Oxygen Demand	<1	mg/L	Exova Accutest
851900	MRY-402	9-Dec-10	pH	7.08	pH units	Exova Accutest
851900	MRY-402	9-Dec-10	Total Suspended Solids	<2	mg/L	Exova Accutest
851900	MRY-402	9-Dec-10	Oil and Grease	<1	mg/L	Exova Accutest
851894	MRY-403	9-Dec-10	Faecal Coliforms	<10	CFU/100 ml	Exova Accutest
851901	MRY-403	9-Dec-10	Biological Oxygen Demand	<1	mg/L	Exova Accutest
851901	MRY-403	9-Dec-10	pH	7.64	pH units	Exova Accutest
851901	MRY-403	9-Dec-10	Total Suspended Solids	<2	mg/L	Exova Accutest
851901	MRY-403	9-Dec-10	Oil and Grease	<1	mg/L	Exova Accutest
855748	MRY-4	30-Dec-10	Faecal Coliforms	<10	CFU/100 ml	Exova Accutest
855745	MRY-4	30-Dec-10	Biological Oxygen Demand	<1	mg/L	Exova Accutest
855745	MRY-4	30-Dec-10	pH	8.11	pH units	Exova Accutest
855745	MRY-4	30-Dec-10	Total Suspended Solids	<2	mg/L	Exova Accutest
855745	MRY-4	30-Dec-10	Oil and Grease	<1	mg/L	Exova Accutest
855749	MRY-401	30-Dec-10	Faecal Coliforms	<10	CFU/100 ml	Exova Accutest
855746	MRY-401	30-Dec-10	Biological Oxygen Demand	<1	mg/L	Exova Accutest
855746	MRY-401	30-Dec-10	pH	8.15	pH units	Exova Accutest
855746	MRY-401	30-Dec-10	Total Suspended Solids	<2	mg/L	Exova Accutest
855746	MRY-401	30-Dec-10	Oil and Grease	<1	mg/L	Exova Accutest

Notes: MRY-401 is a duplicate of MRY-4.

MRY-402 is a field blank of MRY-4.

MRY-403 is a travel blank of MRY-4.

Table 3: Flow and Volume Measurements-Part I Item 7 - December 2010

DATE	Camp Lake Freshwater Use (Mary River Camp) - Daily Potable Water (m³) - MRY-1	Camp Lake Daily Freshwater Use for Other Purposes - (m3) - MRY-1	Treated Sewage Effluent (m³) from WWTF to PWSP at Mary River Camp - MRY-4	Sewage Sludge Removed (m³) from Mary River WWTP	Treated Sewage Effluent (m³) from PWSP to Sheardown Lake (MRY-4a,b,c)
1-Dec	0.0	0.0	0.0	0.0	0.0
2-Dec	0.0	0.0	0.0	0.0	0.0
3-Dec	0.0	0.0	0.0	0.0	0.0
4-Dec	0.0	0.0	0.0	0.0	0.0
5-Dec	0.0	0.0	0.0	0.0	0.0
6-Dec	0.0	0.0	0.0	0.0	0.0
7-Dec	*20.0	0.0	*20.0	0.0	0.0
8-Dec	0.0	0.0	0.0	0.0	0.0
9-Dec	0.0	0.0	0.0	0.0	0.0
10-Dec	0.0	0.0	0.0	0.0	0.0
11-Dec	0.0	0.0	0.0	0.0	0.0
12-Dec	0.0	0.0	0.0	0.0	0.0
13-Dec	0.0	0.0	0.0	0.0	0.0
14-Dec	0.0	0.0	0.0	0.0	0.0
15-Dec	0.0	0.0	0.0	0.0	0.0
16-Dec	0.0	0.0	0.0	0.0	0.0
17-Dec	0.0	0.0	0.0	0.0	0.0
18-Dec	0.0	0.0	0.0	0.0	0.0
19-Dec	*20.0	0.0	*20.0	0.0	0.0
20-Dec	0.0	0.0	0.0	0.0	0.0
21-Dec	0.0	0.0	0.0	0.0	0.0
22-Dec	0.0	0.0	0.0	0.0	0.0
23-Dec	0.0	0.0	0.0	0.0	0.0
24-Dec	0.0	0.0	0.0	0.0	0.0
25-Dec	0.0	0.0	0.0	0.0	0.0
26-Dec	0.0	0.0	0.0	0.0	0.0
27-Dec	0.0	0.0	0.0	0.0	0.0
28-Dec	*15.0	0.0	*15.0	0.0	0.0
29-Dec	0.0	0.0	0.0	0.0	0.0
30-Dec	0.0	0.0	0.0	0.0	0.0
31-Dec	8.3	0.0	8.3	0.0	0.0
Total	63.3	0.0	63.3	0.0	0.0

Notes:

WWTP - Waste Water Treatment Plant

PWSP - Polishing Waste Stabilization Pond

* Denotes an approximation of volume as the flow meter was non-functional