



September 30, 2010

Manager of Licensing  
Nunavut Water Board  
P.O. Box 119  
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Water Resources Officer, INAC  
Nunavut District, Nunavut Region  
P.O. Box 100  
Iqaluit, NU X0A 0H0

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

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

**SNP Sampling**

During the month of August 2010, samples were collected at MRY-4, and MRY-7 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 August 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 August 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](mailto: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

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**Table 1: SNP Water Sampling Summary for August 2010**

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 August
MRY-3	N/A	N/A	N/A for August
MRY-4	23-Aug-10	822593, 822543	Volume reported daily
MRY-5	N/A	N/A	N/A for August
MRY-6	N/A	N/A	N/A for August
MRY-7	3-Aug-10 9-Aug-10	817965 817966 819043 819044	
MRY-8 / 9	N/A	N/A	Run off was not observed during the August surveys.
MRY-10	N/A	N/A	Run off was not observed during the August surveys.
MRY-11	N/A	N/A	Run off was not observed during the August surveys.
MRY-12	N/A	N/A	Run off was not observed during the August surveys.
MRY-13	N/A	N/A	Run off was not observed during the August surveys.

Table 2. Water Chemistry Results - August 2010						
Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
817965	MRY-7	3-Aug-10	Benzene	<0.5	ug/L	Exova Accutest
817965	MRY-7	3-Aug-10	Ethylbenzene	<0.5	ug/L	Exova Accutest
817965	MRY-7	3-Aug-10	Toluene	<0.5	ug/L	Exova Accutest
817965	MRY-7	3-Aug-10	Oil and Grease	<1	mg/L	Exova Accutest
817965	MRY-7	03-Aug-10	Lead	<0.001	mg/L	Exova Accutest
817966	MRY-701	3-Aug-10	Benzene	<0.5	ug/L	Exova Accutest
817966	MRY-701	3-Aug-10	Ethylbenzene	<0.5	ug/L	Exova Accutest
817966	MRY-701	3-Aug-10	Toluene	<0.5	ug/L	Exova Accutest
817966	MRY-701	3-Aug-10	Oil and Grease	<1	mg/L	Exova Accutest
817966	MRY-701	03-Aug-10	Lead	<0.001	mg/L	Exova Accutest
819043	MRY-7	9-Aug-10	Benzene	<0.5	ug/L	Exova Accutest
819043	MRY-7	9-Aug-10	Ethylbenzene	<0.5	ug/L	Exova Accutest
819043	MRY-7	9-Aug-10	Toluene	<0.5	ug/L	Exova Accutest
819043	MRY-7	9-Aug-10	Oil and Grease	<1	mg/L	Exova Accutest
819043	MRY-7	9-Aug-10	Lead	<0.001	mg/L	Exova Accutest
819044	MRY-701	9-Aug-10	Benzene	<0.5	ug/L	Exova Accutest
819044	MRY-701	9-Aug-10	Ethylbenzene	<0.5	ug/L	Exova Accutest
819044	MRY-701	9-Aug-10	Toluene	<0.5	ug/L	Exova Accutest
819044	MRY-701	9-Aug-10	Oil and Grease	1	mg/L	Exova Accutest
819044	MRY-701	9-Aug-10	Lead	<0.001	mg/L	Exova Accutest
822593	MRY-4	23-Aug-10	Faecal Coliforms	0	CFU/100 ml	Exova Accutest
822543	MRY-4	23-Aug-10	Biological Oxygen Demand	3	mg/L	Exova Accutest
822543	MRY-4	23-Aug-10	pH	7.61	pH units	Exova Accutest
822543	MRY-4	23-Aug-10	Total Suspended Solids	4	mg/L	Exova Accutest
822543	MRY-4	23-Aug-10	Oil and Grease	n/a	mg/L	Exova Accutest
822594	MRY-401	23-Aug-10	Faecal Coliforms	1	CFU/100 ml	Exova Accutest
822543	MRY-401	23-Aug-10	Biological Oxygen Demand	3	mg/L	Exova Accutest
822543	MRY-401	23-Aug-10	pH	7.63	pH units	Exova Accutest
822543	MRY-401	23-Aug-10	Total Suspended Solids	4	mg/L	Exova Accutest
822543	MRY-401	23-Aug-10	Oil and Grease	n/a	mg/L	Exova Accutest

MRY-701 is a field duplicate of MRY-7.

MRY-401 is a field duplicate of MRY-4

n/a - result not available at time of report, table will be updated when result becomes available.

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

DATE	Camp Lake Freshwater Use (Mary River Camp) - Daily Potable Water (m <sup>3</sup> ) - MRY-1	Camp Lake Daily Freshwater Use for Other Purposes - (m3) - MRY-1	Five Km Lake Steensby Inlet Daily Potable Water (m <sup>3</sup> )	Treated Sewage Effluent (m <sup>3</sup> ) from WWTF to PWSP at Mary River Camp - MRY-4	Sewage Sludge Removed (m <sup>3</sup> ) from Mary River WWTP	Daily Drill Water Use (m <sup>3</sup> ) - Total (Exploration & Geotechnical)	Treated Sewage Effluent (m <sup>3</sup> ) from PWSP to Sheardown Lake (MRY-4a,b,c)
1-Aug	0.0	0.0	0.0	0.0	13.6	159.9	0.0
2-Aug	25.7	0.0	0.0	25.7	0.0	124.7	0.0
3-Aug	0.0	0.0	7.1	0.0	0.0	144.6	0.0
4-Aug	28.1	4.1	0.0	28.1	0.0	140.6	0.0
5-Aug	13.6	0.0	0.0	13.6	0.0	116.9	0.0
6-Aug	0.0	0.0	0.0	0.0	0.0	124.2	0.0
7-Aug	35.0	0.0	0.0	35.0	0.0	121.3	0.0
8-Aug	0.0	0.0	0.0	0.0	0.0	80.5	0.0
9-Aug	26.3	8.0	5.5	26.3	0.0	130.6	0.0
10-Aug	16.8	0.0	0.0	16.8	0.0	84.2	0.0
11-Aug	0.0	0.0	0.0	0.0	0.0	114.4	0.0
12-Aug	0.0	0.0	0.0	0.0	0.0	111.6	0.0
13-Aug	35.7	0.0	0.0	35.7	0.0	60.5	0.0
14-Aug	0.0	0.0	0.0	0.0	0.0	70.0	0.0
15-Aug	34.8	0.0	0.0	34.8	0.0	77.6	0.0
16-Aug	0.0	0.0	2.2	0.0	0.0	51.6	0.0
17-Aug	25.8	8.5	0.0	25.8	0.0	26.0	0.0
18-Aug	0.0	4.4	camp closed	0.0	0.0	0.0	0.0
19-Aug	28.3	0.0	camp closed	28.3	0.0	0.0	0.0
20-Aug	0.0	0.0	camp closed	0.0	0.0	0.0	0.0
21-Aug	0.0	0.0	camp closed	0.0	0.0	0.0	0.0
22-Aug	36.5	4.5	camp closed	36.5	0.0	0.0	0.0
23-Aug	0.0	0.0	camp closed	0.0	0.0	22.8	0.0
24-Aug	0.0	0.0	camp closed	0.0	0.0	0.0	0.0
25-Aug	37.7	0.0	camp closed	37.7	0.0	16.0	0.0
26-Aug	0.0	0.0	camp closed	0.0	0.0	16.0	0.0
27-Aug	20.0	0.0	camp closed	20.0	0.0	14.5	0.0
28-Aug	0.0	0.0	camp closed	0.0	0.0	43.4	0.0
29-Aug	24.4	7.4	camp closed	24.4	0.0	15.0	0.0
30-Aug	10.1	0.0	camp closed	10.1	0.0	0.0	0.0
31-Aug	0.0	0.0	camp closed	0.0	0.0	0.0	0.0
<b>Total</b>	<b>398.8</b>	<b>36.9</b>	<b>14.8</b>	<b>398.8</b>	<b>13.6</b>	<b>1866.8</b>	<b>0.0</b>

Notes:

WWTP - Waste Water Treatment Plant  
PWSP - Polishing Waste Stabilization Pond