



October 30, 2011

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

**RE: Water License 2BB-MRY1114 Monthly SNP Report – September 2011**

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Following is the monthly report for September 2011 as required under Part I, Item 19 of Water License 2BB-MRY1114.

**SNP Sampling**

During the month of September 2011, samples were collected at MRY-4 and MRY-5 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 and Steensby Inlet Camp 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 September 2011.

**B) Flow and Volume Measurements**

Table 3 provides a breakdown of volume measurements as requested in Part I, Item 9 of the water license for September 2011.

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: Andrew Keim (INAC), Stephen Bathory and Salamonie Shoo (QIA)

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**Table 1: SNP Water Sampling Summary for September 2011**

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 September
MRY-3	N/A	N/A	Volume reported daily.
MRY-4	5-Sep-11 12-Sep-11	909011 911178	Volume reported daily
MRY-5	5-Sep-11	909007	Volume reported daily
MRY-6	N/A	N/A	No discharge.
MRY-7	N/A	N/A	No discharge.
MRY-9A	N/A	N/A	No flow observed.
MRY-9B	N/A	N/A	No flow observed.
MRY-10	N/A	N/A	No flow observed.
MRY-11	N/A	N/A	No flow observed.
MRY-12	N/A	N/A	No flow observed.
MRY-13A	N/A	N/A	No flow observed.
MRY-13B	N/A	N/A	No flow observed.

**Notes:**

MRY-9A is downstream of bulk sample pit/bench. MRY-9B is downstream of MRY-9A. MRY-11 is downstream of bulk sample crusher area. MRY-12 is downstream of bulk ore stockpile area at Milne Inlet. MRY-13A is downstream of non-hazardous landfill facility. MRY-13B is downstream of MRY-13A.

**Table 2. Water Chemistry Results - September 2011**

<b>Sample Number</b>	<b>Sample ID</b>	<b>Date Sampled</b>	<b>Parameter Name</b>	<b>Result</b>	<b>Unit</b>	<b>Lab</b>
909011	MRY-4	05-Sep-11	Biochemical Oxygen Demand	8	mg/L	Exova Accutest
909065	MRY-4	05-Sep-11	Faecal Coliforms	<10	CFU/100mL	Exova Accutest
909011	MRY-4	05-Sep-11	Oil & Grease - Total	<1	mg/L	Exova Accutest
909011	MRY-4	05-Sep-11	pH	6.68	pH units	Exova Accutest
909011	MRY-4	05-Sep-11	Total Suspended Solids	21	mg/L	Exova Accutest
909007	MRY-5	05-Sep-11	Biochemical Oxygen Demand	7	mg/L	Exova Accutest
909061	MRY-5	05-Sep-11	Faecal Coliforms	1550	CFU/100mL	Exova Accutest
909007	MRY-5	05-Sep-11	Oil & Grease - Total	<1	mg/L	Exova Accutest
909007	MRY-5	05-Sep-11	pH	7.51	pH units	Exova Accutest
909007	MRY-5	05-Sep-11	Total Suspended Solids	9	mg/L	Exova Accutest
911178	MRY-4	12-Sep-11	Biochemical Oxygen Demand	6	mg/L	Exova Accutest
911141	MRY-4	13-Sep-11	Faecal Coliforms	2	CFU/100mL	Exova Accutest
911178	MRY-4	12-Sep-11	Oil & Grease - Total	<1	mg/L	Exova Accutest
911178	MRY-4	12-Sep-11	pH	7.46	pH units	Exova Accutest
911178	MRY-4	12-Sep-11	Total Suspended Solids	30	mg/L	Exova Accutest

**Table 3: Flow and Volume Measurements-Part I Item 7 - September 2011**

DATE	Camp Lake Freshwater Use (Mary River Camp) - Daily Potable Water (m <sup>3</sup> ) - MRY-1	Three Km Lake Steensby Inlet Daily Potable Water (m <sup>3</sup> )	Phillips Creek Summer Freshwater Use (Milne Inlet Camp) - Daily Potable Water (m <sup>3</sup> )	Treated Sewage Effluent (m <sup>3</sup> ) from WWTF to PWSP at Mary River Camp - MRY-4	Treated Sewage Effluent (m <sup>3</sup> ) from PWSP to Discharge at Sheardown Lake	Treated Sewage Effluent (m <sup>3</sup> ) from WWTF to PWSP at Milne Inlet Camp - MRY-5	Treated Sewage Effluent (m <sup>3</sup> ) from WWTF to Discharge at Milne Inlet
1-Sep	16.4	0.0	10.0	16.4	240	0.0	0.0
2-Sep	16.4	0.0	0.0	16.4	282	0.0	13.0
3-Sep	12.3	0.0	10.0	12.3	289	0.0	0.0
4-Sep	12.3	0.0	0.0	12.3	388	0.0	13.0
5-Sep	8.2	0.0	10.0	8.2	139	0.0	10.0
6-Sep	16.4	7.3	10.0	16.4	0.0	0.0	0.0
7-Sep	16.4	0.0	10.0	16.4	0.0	0.0	0.0
8-Sep	8.2	7.8	10.0	8.2	0.0	0.0	12.0
9-Sep	0.0	0.0	10.0	0.0	0.0	0.0	0.0
10-Sep	0.0	0.0	10.0	0.0	0.0	0.0	12.0
11-Sep	0.0	0.0	10.0	0.0	0.0	0.0	0.0
12-Sep	14.4	0.0	10.0	14.4	0.0	0.0	0.0
13-Sep	13.6	0.0	10.0	13.6	0.0	0.0	12.0
14-Sep	17.0	0.0	10.0	17.0	0.0	0.0	0.0
15-Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Sep	27.3	0.0	10.0	27.3 (16.0)	0.0	0.0	0.0
17-Sep	0.0	0.0	10.0	0.0 (16.0)	0.0	0.0	0.0
18-Sep	17.4	0.0	10.0	17.4 (16.0)	0.0	0.0	0.0
19-Sep	0.0	0.0	10.0	0.0 (16.0)	0.0	0.0	0.0
20-Sep	21.2	0.0	0.0	21.2	0.0	0.0	0.0
21-Sep	0.0	0.0	10.0	0.0 (14.0)	0.0	0.0	0.0
22-Sep	11.7	0.0	10.0	11.7	0.0	0.0	0.0
23-Sep	15.1	0.0	10.0	15.1	0.0	16.0	0.0
24-Sep	18.2	0.0	10.0	18.2	0.0	0.0	0.0
25-Sep	0.0	0.0	10.0	0.0	0.0	0.0	0.0
26-Sep	17.8	0.0	10.0	17.8 (9.0)	0.0	0.0	0.0
27-Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28-Sep	17.4	0.0	10.0	17.4	0.0	10.0	0.0
29-Sep	0.0	0.0	10.0	0.0	0.0	0.0	0.0
30-Sep	17.8	0.0	0.0	17.8	0.0	0.0	0.0
<b>Total</b>	<b>315.5</b>	<b>15.1</b>	<b>240.0</b>	<b>315.5 (87.0)</b>	<b>1338.0</b>	<b>26.0</b>	<b>72.0</b>

Notes:

WWTP - Waste Water Treatment Plant

PWSP - Polishing Waste Stabilization Pond

Volumes in parentheses denote treated effluent that was transported to Mary River PWSP due to malfunction in Milne inlet WWTP PLC.