



May 31, 2017

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 Licence 2AM-MRY1325 Monthly SNP Report – April 2017**

The following is the monthly report for April 2017 as required under Part I, Item 21 Water Licence 2AM-MRY1325. Part I, Item 21 of the above referenced Water Licence states:

*"The Licensee shall submit to the Board, within thirty (30) days following the month being reported, a Monthly Monitoring Report. The Report shall include:*

- a. All data and information required by this Part and generated by the Monitoring Program in the tables of Schedule I;*
- b. An assessment of data to identified area of non-compliance with regulated discharge parameters referred to in Part F"*

**Monitoring Program**

During the month of April 2017, water samples were collected as part of the Water Licence Monitoring Program.

Table 1 presents a list of samples/monitoring required under the Water Licences and the details concerning which water quality samples were collected along with sample date/lab identification number as appropriate. Analytical water quality testing results received are presented in Table 2. Volumes consumed for domestic and industrial water purposes and the volumes of effluent discharged at the Mary River Mine Site and Milne Port Camp are presented in the attached Table 3.

**Monitoring Program Results**

**A) Water Sampling and Analysis Results**

Table 2 provides the analytical results related to the Monitoring Program sampling requirements for April 2017.

**B) Flow and Volume Measurements**

Table 3 provides a breakdown of volume measurements as requested in Part I, Item 9 of the Water Licence for April 2017. Daily flow data for runoff and seepage sites are being collected and will be provided in the annual report.

We hope that the information provided in this monthly report is acceptable and should you have any questions regarding this report please contact Laura Taylor or William Bowden at 416-364-8820 ext 6016.

Regards,

Connor Devereaux,  
Environmental Coordinator

Reviewed by:

Laura Taylor,  
Environmental Superintendent

Attach: Tables 1, 2 and 3

Cc: Erik Allain, Jonathon Mesher, Sarah Forte (INAC); Todd Burlingame, Wayne McPhee, Sylvain Proulx, Eric Steinmetzer (Baffinland); Stephen Bathory (QIA)

**Table 1: Monitoring Program Water Sampling Summary for April 2017**

<b>Monitoring Program Station</b>	<b>Sampling Date</b>	<b>Lab ID#</b>	<b>Comment</b>
<b>Milne Port</b>			
MP-01 (Sewage Treatment Facility)	4-Apr-17	L1909692-1	Discharge volume reported daily
MP-01A (Milne Port PWSP)	N/A	N/A	Volume reported daily during discharge
MP-MRY-3 (Freshwater Intake from Km 32 Lake - Winter)	N/A	N/A	Volume reported daily during discharge
MP-MRY-04 (RBC at Exploration Camp)	N/A	N/A	Facility Inactive
MP-03 (Bulk Fuel Storage Facility Stormwater)	N/A	N/A	Volume reported daily during discharge
MP-04 (Landfarm Facility & Snow Containment Facility)	N/A	N/A	Volume reported daily during discharge
MP-05 (Ore Stockpile Sedimentation Pond (East))	N/A	N/A	Volume reported daily during discharge
MP-06 (Ore Stockpile Sedimentation Pond (West))	N/A	N/A	Volume reported daily during discharge
MP-MRY-12 (Bulk Sample Stockpile Area Seepage)	N/A	N/A	No flow, location is being retired due to lack of flow.
MP-C-A (Downstream of Construction Area)	N/A	N/A	No flow, location is being retired due to lack of flow.
MP-C-B (Downstream of Construction Area)	N/A	N/A	No flow during the month of March
MP-C-B01 (Downstream of Construction Area)	N/A	N/A	No flow during the month of March
MP-C-D (Downstream of Construction Area)	N/A	N/A	No flow during the month of March
MP-C-E (Downstream of Construction Area)	N/A	N/A	No flow during the month of March
MP-C-F (Downstream of Construction Area)	N/A	N/A	No flow during the month of March
MP-C-H (Downstream of Construction Area)	N/A	N/A	No flow during the month of March
MP-Q1-01 (Downstream of Q1 Quarry)	N/A	N/A	No flow during the month of March
MP-Q1-02 (Downstream of Q1 Quarry)	N/A	N/A	No flow during the month of March
<b>Mary River Mine Site</b>			

<b>Monitoring Program Station</b>	<b>Sampling Date</b>	<b>Lab ID#</b>	<b>Comment</b>
MS-01 (Sewage Treatment Facility)	4-Apr-17	L1909694-1	Discharge volume reported daily
MS-MRY-1 (Freshwater Intake from Camp Lake)	N/A	N/A	Withdrawal volume reported daily
MS-MRY-04 (Exploration Camp RBC)	N/A	N/A	Facility Inactive
MS-03 (Milne Site Bulk Fuel Storage Facility Stormwater)	N/A	N/A	Volume reported daily during discharge
MS-06 (Ore Stockpile Pond Stormwater)	N/A	N/A	Volume reported daily during discharge
MS-08 (Mine Waste Rock Stockpile pond)	N/A	N/A	Volume reported daily during discharge
MS-MRY-6 (Exploration Camp Bladder Farm Stormwater)	N/A	N/A	Volume reported daily during discharge
MS-MRY-09 (Bulk Sample Pit)	N/A	N/A	No flow during the month of March
MS-MRY-10 (Weathered Ore Bulk Sample Stockpile)	N/A	N/A	No flow during the month of March
MS-MRY-11 (Processing Bulk Sample Stockpile)	N/A	N/A	Area is being retired due to lack of flows
MS-MRY-13A (Downstream Non-Hazardous Landfill)	N/A	N/A	No flow during the month of March
MS-MRY-13B (Downstream Non-Hazardous Landfill)	N/A	N/A	No flow during the month of March
MS-C-A (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of March
MS-C-B (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of March
MS-C-C (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of March
MS-C-D (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of March
MS-C-E (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of March
MS-C-F (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of March
MS-C-G (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of March

<b>Monitoring Program Station</b>	<b>Sampling Date</b>	<b>Lab ID#</b>	<b>Comment</b>
MS-C-H (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of March
MQ-C-A (Downstream of QMR2 Quarry)	N/A	N/A	No flow during the month of March
MQ-C-B (Downstream of QMR2 Quarry)	N/A	N/A	No flow during the month of March
MQ-C-D (Downstream of QMR2 Quarry)	N/A	N/A	No flow during the month of March
MQ-C-E (Downstream of D1Q2 Quarry)	N/A	N/A	No flow during the month of March
<b>Steensby Port</b>			
Steensby Exploration Camp is presently not active.			

Table 2. Water Chemistry Results - April 2017						
Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
<b>MILNE PORT SITE</b>						
L1909692-1	MP-01	4-Apr-17	pH	7.65	pH units	ALS
L1909692-1	MP-01	4-Apr-17	Total Suspended Solids	<2.0	mg/L	ALS
L1909692-1	MP-01	4-Apr-17	Ammonia, Total (as N)	0.06	mg/L	ALS
L1909692-1	MP-01	4-Apr-17	Total Phosphorus	8.91	mg/L	ALS
L1909692-1	MP-01	4-Apr-17	Fecal Coliforms	11	CFU/100mL	ALS
L1909692-1	MP-01	4-Apr-17	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1909692-1	MP-01	4-Apr-17	Oil & Grease - Total	<2.0	mg/L	ALS
<b>MARY RIVER MINE SITE</b>						
L1909694-1	MS-01	4-Apr-17	pH	7.6	pH units	ALS
L1909694-1	MS-01	4-Apr-17	Total Suspended Solids	<2.0	mg/L	ALS
L1909694-1	MS-01	4-Apr-17	Ammonia, Total (as N)	0.057	mg/L	ALS
L1909694-1	MS-01	4-Apr-17	Total Phosphorus	1.28	mg/L	ALS
L1909694-1	MS-01	4-Apr-17	Fecal Coliforms	0	CFU/100mL	ALS
L1909694-1	MS-01	4-Apr-17	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1909694-1	MS-01	4-Apr-17	Oil & Grease - Total	<2.0	mg/L	ALS

**Notes:**

Table 3: Flow and Volume Measurements-Part I Item 11 - April 2017

DATE	Camp Lake Freshwater Use (Mine Site Camp) - Daily Potable Water (m³) MS-MRY-1	Km 32 Lake Milne Port Camp Daily Potable Water (m³) MP-MRY-3	Treated Sewage Effluent (m³) from MS-01 to Discharge Location #1	Sewage Sludge Removed (m³) from Mine Site WWTP to Incinerator	Sewage Sludge Removed (m³) from Mine Site WWTP to PWSP at Mine Site - MS- MRY-4a	Sewage Sludge Removed (m³) from Lift Stations to PWSP at Mine Site - MS-MRY-4a	Treated Sewage Effluent (m³) from MP-01 to Milne Port	Sewage Sludge Removed (m³) from Milne Port WWTP to Incinerator	Sewage Sludge Removed (m³) from Milne Port WWTP to PWSP at Milne Port - MP-01a	Sewage Removed (m³) from Lift Stations to PWSP at Milne Port - MP-01a
1-Apr	55.4	17.4	55.4	0.4	0.0	0.0	17.4	0.2	0.0	0.0
2-Apr	72.8	52.2	72.8	0.4	0.0	0.0	52.2	0.2	0.0	0.0
3-Apr	58.4	52.2	58.4	0.4	0.0	0.0	52.2	0.2	0.0	0.0
4-Apr	38.7	34.8	38.7	0.4	0.0	0.0	34.8	0.2	0.0	0.0
5-Apr	60.5	34.8	60.5	0.4	0.0	0.0	34.8	0.3	0.0	0.0
6-Apr	73.4	17.4	73.4	0.4	0.0	0.0	17.4	0.3	0.0	0.0
7-Apr	57.6	69.7	57.6	0.5	0.0	0.0	69.7	0.3	0.0	0.0
8-Apr	62.2	0.0	62.2	0.4	0.0	0.0	0.0	0.3	0.0	0.0
9-Apr	49.1	52.2	49.1	0.4	0.0	0.0	52.2	0.2	0.0	0.0
10-Apr	52.4	52.2	52.4	0.5	0.0	0.0	52.2	0.2	0.0	0.0
11-Apr	55.6	17.4	55.6	0.4	0.0	0.0	17.4	0.0	2.0	0.0
12-Apr	39.9	34.8	39.9	0.5	0.0	0.0	34.8	0.3	0.0	0.0
13-Apr	75.7	34.8	75.7	0.4	1.2	0.0	34.8	0.3	0.0	0.0
14-Apr	42.5	34.8	42.5	0.4	0.0	0.0	34.8	0.3	0.0	0.0
15-Apr	63.9	87.1	63.9	0.4	0.0	0.0	87.1	0.3	0.0	0.0
16-Apr	68.2	17.4	68.2	0.3	0.0	0.0	17.4	0.3	0.0	0.0
17-Apr	63.8	34.8	63.8	0.5	0.0	0.0	34.8	0.3	0.0	0.0
18-Apr	48.5	34.8	48.5	0.4	0.0	0.0	34.8	0.2	0.0	0.0
19-Apr	52.3	69.7	52.3	0.4	0.0	0.0	69.7	0.2	0.0	0.0
20-Apr	61.8	34.8	61.8	0.5	0.0	0.0	34.8	0.3	0.0	0.0
21-Apr	56.7	52.2	56.7	0.4	0.0	0.0	52.2	0.3	0.0	0.0
22-Apr	80.6	34.8	80.6	0.4	0.0	0.0	34.8	0.3	0.0	0.0
23-Apr	52.9	52.2	52.9	0.4	0.0	0.0	52.2	0.3	0.0	0.0
24-Apr	67.8	52.2	67.8	0.5	0.0	0.0	52.2	0.3	0.0	0.0
25-Apr	51.3	34.8	51.3	0.5	0.0	0.0	34.8	0.3	0.0	0.0
26-Apr	47.4	34.8	47.4	0.5	0.0	0.0	34.8	0.2	0.0	0.0
27-Apr	73.8	34.8	73.8	0.5	0.0	0.0	34.8	0.3	0.5	0.5
28-Apr	57.1	52.2	57.1	0.5	0.0	0.0	52.2	0.3	0.0	0.0
29-Apr	61.2	69.7	61.2	0.5	0.0	0.0	69.7	0.3	0.0	0.0
30-Apr	51.6	34.8	51.6	0.5	0.0	0.0	34.8	0.3	0.0	0.0
Total	1752.9	1236.3	1752.9	13.2	1.2	0.0	1236.3	8.2	2.5	0.5

Notes:

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