



December 30, 2017

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 Licence 2AM-MRY1325 Monthly SNP Report – November 2017

The following is the monthly report for November 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 November 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/labratory 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 November 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 November 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 myself at ext 6016 or William Bowden at 416-364-8820 ext 6016.

Regards,

Reviewed by:

A handwritten signature in black ink, appearing to read 'Connor Devereaux'.

Connor Devereaux
Environmental Superintendent

Timothy Ray Sewell
Head of Health, Safety and Environment

Attach: Tables 1, 2 and 3

Cc: Erik Allain, Jonathon Mesher, Sarah Forte (INAC); Todd Burlingame, Megan Lord-Hoyle, Timothy Ray Sewell, Sylvain Proulx, Gerald Rogers, Francois Gaudrau (Baffinland); Stephen Bathory (QIA)

Table 1: Monitoring Program Water Sampling Summary for November 2017

Monitoring Program Station	Sampling Date	Lab ID#	Comment
Milne Port			
MP-01 (Sewage Treatment Facility)	November 14, 2017	L2023694-1	Discharge volume reported daily
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 month of November
MP-C-B01 (Downstream of Construction Area)	N/A	N/A	No flow during month of November
MP-C-D (Downstream of Construction Area)	N/A	N/A	No flow, location is being retired due to lack of flow.
MP-C-E (Downstream of Construction Area)	N/A	N/A	No flow, location is being retired due to lack of flow.
MP-C-F (Downstream of Construction Area)	N/A	N/A	No flow during month of November
MP-C-H (Downstream of Construction Area)	N/A	N/A	No flow during month of November
MP-Q1-01 (Downstream of Q1 Quarry)	N/A	N/A	No flow during month of November
MP-Q1-02 (Downstream of Q1 Quarry)	N/A	N/A	No flow during month of November

Mary River Mine Site			
MS-01 (Sewage Treatment Facility)	November 14,2017	L2023696-1	Discharge volume reported daily
MS-0102 (Field Blank of MS-01)	November 14,2017	L2023696-4	
MS-0103 (Travel Blank of MS-01)	November 14, 2017	L2023696-3	
MS-MRY-1 (Freshwater Intake Camp Lake)	N/A	N/A	Withdrawal volume reported daily
MS-MRY-04a	N/A	N/A	
MS-MRY-04b	N/A	N/A	
MS-MRY-04c	N/A	N/A	
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 month of November
MS-MRY-10 (Weathered Ore Bulk Sample Stockpile)	N/A	N/A	No flow during month of November
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 month of November
MS-MRY-13B (Downstream Non-Hazardous Landfill)	N/A	N/A	No flow during month of November
MS-C-A (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of November
MS-C-B (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of November
MS-C-C (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of November
MS-C-D (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of November
MS-C-E (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of November
MS-C-F (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of November

MS-C-G (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of November
MS-C-H (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of November
MQ-C-A (Downstream of QMR2 Quarry)	N/A	N/A	No flow during month of November
MQ-C-B (Downstream of QMR2 Quarry)	N/A	N/A	No flow during month of November
MQ-C-D (Downstream of QMR2 Quarry)	N/A	N/A	No flow during month of November
Steensby Port			
Steensby Exploration Camp is presently not active.			

Table 2. Water Chemistry Results - November 2017

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
MILNE PORT SITE						
L2023694-1	MP-01	14-Nov-17	pH	7.77	pH units	ALS
L2023694-1	MP-01	14-Nov-17	Total Suspended Solids	<2.0	mg/L	ALS
L2023694-1	MP-01	14-Nov-17	Alkalinity, Total (asCaCO3)	165	mg/L	ALS
L2023694-1	MP-01	14-Nov-17	Ammonia, Total (as N)	0.116	mg/L	ALS
L2023694-1	MP-01	14-Nov-17	Phosphorus, Total	8.67	mg/L	ALS
L2023694-1	MP-01	14-Nov-17	Fecal Coliforms	1	CFU/100mL	ALS
L2023694-1	MP-01	14-Nov-17	BOD	<2.0	mg/L	ALS
L2023694-1	MP-01	14-Nov-17	Oil and Grease, Total	<2.0	mg/L	ALS
MARY RIVER MINE SITE						
L2023696-1	MS-01	14-Nov-17	pH	7	pH units	ALS
L2023696-1	MS-01	14-Nov-17	Total Suspended Solids	4.4	mg/L	ALS
L2023696-1	MS-01	14-Nov-17	Alkalinity, Total (asCaCO3)	36	mg/L	ALS
L2023696-1	MS-01	14-Nov-17	Ammonia, Total (as N)	1.16	mg/L	ALS
L2023696-1	MS-01	14-Nov-17	Phosphorus, Total	1.98	mg/L	ALS
L2023696-1	MS-01	14-Nov-17	Fecal Coliforms	1	CFU/100mL	ALS
L2023696-1	MS-01	14-Nov-17	BOD	3.6	mg/L	ALS
L2023696-1	MS-01	14-Nov-17	Oil and Grease, Total	<2.0	mg/L	ALS
L2023696-4	MS-0102	14-Nov-17	pH	6.12	pH units	ALS
L2023696-4	MS-0102	14-Nov-17	Total Suspended Solids	<2.0	mg/L	ALS
L2023696-4	MS-0102	14-Nov-17	Alkalinity, Total (asCaCO3)	<10	mg/L	ALS
L2023696-4	MS-0102	14-Nov-17	Ammonia, Total (as N)	<0.020	mg/L	ALS
L2023696-4	MS-0102	14-Nov-17	Phosphorus, Total	<0.0030	mg/L	ALS
L2023696-4	MS-0102	14-Nov-17	Fecal Coliforms	0	CFU/100mL	ALS
L2023696-4	MS-0102	14-Nov-17	BOD	<2.0	mg/L	ALS
L2023696-4	MS-0102	14-Nov-17	Oil and Grease, Total	<2.0	mg/L	ALS
L2023696-3	MS-0103	14-Nov-17	pH	6.51	pH units	ALS
L2023696-3	MS-0103	14-Nov-17	Total Suspended Solids	<2.0	mg/L	ALS
L2023696-3	MS-0103	14-Nov-17	Alkalinity, Total (asCaCO3)	<10	mg/L	ALS
L2023696-3	MS-0103	14-Nov-17	Ammonia, Total (as N)	<0.020	mg/L	ALS
L2023696-3	MS-0103	14-Nov-17	Phosphorus, Total	0.0038	mg/L	ALS
L2023696-3	MS-0103	14-Nov-17	Fecal Coliforms	0	CFU/100mL	ALS
L2023696-3	MS-0103	14-Nov-17	BOD	<2.0	mg/L	ALS
L2023696-3	MS-0103	14-Nov-17	Oil and Grease, Total	<2.0	mg/L	ALS
Notes:						

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

DATE	Camp Lake Freshwater Use (Mine Site Camp) - Daily Potable Water (m³) MS-MRY-1	Camp Lake Daily Freshwater Use for Other Purposes - (m³) MS-MRY-1	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	Km 32 Lake Milne Port Camp Daily Potable Water (m³) MP-MRY-3	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-Nov	80.0	0.0	80.0	0.4	0.0	0.0	41.8	41.8	0.0	0.0	0.0
2-Nov	67.3	0.0	67.3	0.5	0.0	0.0	47.9	47.9	0.4	0.0	0.0
3-Nov	68.1	0.0	68.1	0.5	0.0	0.0	41.4	41.4	0.8	0.0	0.0
4-Nov	80.8	0.0	80.8	0.5	0.0	0.0	28.4	28.4	0.2	0.0	0.0
5-Nov	55.9	0.0	55.9	0.4	0.0	0.0	32.1	32.1	0.8	0.0	0.0
6-Nov	66.3	0.0	66.3	0.4	0.0	0.0	52.2	52.2	0.0	6.0	0.0
7-Nov	96.2	0.0	96.2	0.4	0.0	0.0	41.8	41.8	0.0	0.0	0.0
8-Nov	76.3	0.0	76.3	0.4	0.0	0.0	44.6	44.6	0.0	0.0	0.0
9-Nov	62.7	0.0	62.7	0.4	0.0	0.0	31.6	31.6	0.3	0.0	0.0
10-Nov	42.0	0.0	42.0	0.4	0.0	0.0	46.0	46.0	0.2	0.0	0.0
11-Nov	104.3	0.0	104.3	0.5	0.0	0.0	46.9	46.9	0.2	0.0	0.0
12-Nov	61.0	0.0	61.0	0.3	0.0	0.0	29.5	29.5	0.3	0.0	0.0
13-Nov	79.7	0.0	79.7	0.5	0.0	0.0	47.4	47.4	0.3	0.0	0.0
14-Nov	113.0	0.0	113.0	0.5	0.0	0.0	58.0	58.0	0.3	0.0	8.5
15-Nov	65.6	0.0	65.6	0.5	0.0	0.0	37.3	37.3	0.3	0.0	0.0
16-Nov	64.4	0.0	64.4	0.5	0.0	0.0	37.1	37.1	0.3	0.0	0.0
17-Nov	94.6	0.0	94.6	0.5	0.0	0.0	48.8	48.8	0.2	0.0	0.0
18-Nov	49.0	0.0	49.0	0.5	0.0	0.0	46.4	46.4	0.2	0.0	0.0
19-Nov	44.9	0.0	44.9	0.5	0.0	0.0	43.2	43.2	0.3	1.0	0.0
20-Nov	128.1	0.0	128.1	0.4	0.0	0.0	33.9	33.9	0.3	0.0	0.0
21-Nov	98.2	0.0	98.2	0.5	0.0	0.0	39.1	39.1	0.3	0.0	0.0
22-Nov	50.6	0.0	50.6	0.5	0.0	0.0	47.4	47.4	0.3	0.0	0.0
23-Nov	74.3	0.0	74.3	0.5	0.0	0.0	42.1	42.1	0.0	0.0	0.0
24-Nov	76.3	0.0	76.3	0.5	0.0	0.0	43.1	43.1	0.5	0.0	0.0
25-Nov	62.3	0.0	62.3	0.6	0.0	0.0	47.3	47.3	0.3	0.0	0.0
26-Nov	153.0	0.0	153.0	0.6	0.0	0.0	33.7	33.7	0.0	0.0	0.0
27-Nov	79.2	0.0	79.2	0.6	0.0	12.0	64.4	64.4	0.3	0.0	0.0
28-Nov	100.0	0.0	100.0	0.6	2.0	8.0	31.5	31.5	0.6	0.0	0.0
29-Nov	70.3	0.0	70.3	0.6	0.0	0.0	37.6	37.6	0.3	0.0	0.0
30-Nov	83.2	0.0	83.2	0.5	0.0	0.0	39.0	39.0	0.3	0.0	0.0
Total	2347.8	0.0	2347.8	14.3	2.0	20.0	1261.4	1261.4	8.7	7.0	8.5

Notes:

WWTP - Waste Water Treatment Plant

PWSP - Polishing Waste Stabilization Pond