



March 30, 2015

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

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

RE: Water License 2AM-MRY1325 Monthly SNP Report – February 2015

The following is the monthly report for February 2015 as required under Part I, Item 21 Water License 2AM-MRY1325. Part I, Item 21 of the above referenced Water Licence state:

"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 February 2015, samples were collected at MP-01 and MS-01 as part of the Water Licence Monitoring Program.

Due to frozen conditions, samples were not collected downstream of construction areas and quarry monitoring locations at the Mine Site (MS-C and MQ-C sites) and Milne Port (MP-C and MP-Q1 sites) as part of the Aquatics Effects and Monitoring Program under Schedule I of Water Licence 2AM-MRY1325 in February 2015.

Table 1 presents a list of samples/monitoring required under the Water Licenses 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 are presented in Table 2. Volumes consumed for domestic water purposes and the volumes of treated sewage effluent and sewage sludge discharged at Mary River Mine Site and Milne Port Camp are presented in 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 February 2015.

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 February 2015.

We hope that the information provided in this monthly report is acceptable and should you have any questions regarding this report please contact Allan Knight or Trevor Myers at 647-253-0596 ext: 6010 or Jim Millard at ext: 6016.

Prepared by:

A handwritten signature in black ink, appearing to read "Allan Knight".

Allan Knight, B.Sc.
Environmental Superintendent

Reviewed by:

James Millard, M.Sc., P.Geo.
Environmental Manager

Attach: Tables 1, 2 and 3

Cc: Justin Hack, Robert Savard, Erik Allain (AANDC), Stephen Bathory (QIA)

Table 1: Monitoring Program Water Sampling Summary for February 2015

Monitoring Program Station	Sampling Date	Lab ID#	Comment
Milne Port			
MP-01 (Sewage Treatment Facility)	February 11, 2015 February 11, 2015 February 25, 2015	L1576497-1 L1576497-3 L1581061-1	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	Withdrawal volume Reported Daily
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-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 Quarry Area)	N/A	N/A	No flow, frozen conditions
MP-C-B01 (Downstream of Quarry Area)	N/A	N/A	No flow, frozen conditions
MP-C-B0101 (Duplicate of MP-C-B01)	N/A	N/A	No flow, frozen conditions
MP-C-H (Downstream of Construction Area)	N/A	N/A	No flow, frozen conditions
MP-Q1-01 (Downstream of Q1 Quarry)	N/A	N/A	No flow, frozen conditions
MP-Q1-02 (Downstream of Q1 Quarry)	N/A	N/A	No flow, frozen conditions
Mary River Mine Site			
MS-01 (Sewage Treatment Facility)	February 11, 2015 February 11, 2015 February 25, 2015	L1576452-1 L1576452-3 L1581015-1	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-MRY-04A (Exploration Camp PWSP #1)	N/A	N/A	Volume Reported Daily during discharge
MS-03 (Milne Site Bulk Fuel Storage Facility Stormwater)	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

Monitoring Program Station	Sampling Date	Lab ID#	Comment
MS-MRY-09 (Bulk Sample Pit)	N/A	N/A	No flow, frozen conditions
MS-MRY-10 (Weathered Ore Bulk Sample Stockpile)	N/A	N/A	No flow, frozen conditions
MS-MRY-11 (Processing Bulk Sample Stockpile)	N/A	N/A	No flow, frozen conditions
MS-MRY-13A (Downstream Non-Hazardous Landfill)	N/A	N/A	No flow, frozen conditions
MS-MRY-13B (Downstream Non-Hazardous Landfill)	N/A	N/A	No flow, frozen conditions
MS-C-A (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-B (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-C (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-D (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-E (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-F (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-G (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-H (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MQ-C-A (Downstream of QMR2 Quarry)	N/A	N/A	No flow, frozen conditions
MQ-C-B (Downstream of QMR2 Quarry)	N/A	N/A	No flow, frozen conditions
MQ-C-D (Downstream of QMR2 Quarry)	N/A	N/A	No flow, frozen conditions
Steensby Port			
Steensby Exploration Camp closed for the season			

Table 2. Water Chemistry Results - February 2015

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
MILNE PORT SITE						
L1576497-1	MP-01	11-Feb-15	pH	7.73	pH units	ALS
L1576497-1	MP-01	11-Feb-15	Total Suspended Solids	<2.0	mg/L	ALS
L1576497-1	MP-01	11-Feb-15	N-NH3 (Ammonia)	0.05	mg/L	ALS
L1576497-1	MP-01	11-Feb-15	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1576497-1	MP-01	11-Feb-15	Total Phosphorus	10.5	mg/L	ALS
L1576497-3	MP-01	11-Feb-15	Faecal Coliforms	3	ct/100mL	ALS
L1576497-1	MP-01	11-Feb-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1576497-1	MP-01	11-Feb-15	Oil & Grease - Total	<6.0	mg/L	ALS
L1581061-1	MP-01	25-Feb-15	pH	7.69	pH units	ALS
L1581061-1	MP-01	25-Feb-15	Total Suspended Solids	2.8	mg/L	ALS
L1581061-1	MP-01	25-Feb-15	N-NH3 (Ammonia)	0.055	mg/L	ALS
L1581061-1	MP-01	25-Feb-15	Total Kjeldahl Nitrogen	0.98	mg/L	ALS
L1581061-1	MP-01	25-Feb-15	Total Phosphorus	11.5	mg/L	ALS
L1581061-1	MP-01	25-Feb-15	Faecal Coliforms	0	ct/100mL	ALS
L1581061-1	MP-01	25-Feb-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1581061-1	MP-01	25-Feb-15	Oil & Grease - Total	<6.0	mg/L	ALS
MARY RIVER MINE SITE						
L1576452-1	MS-01	11-Feb-15	pH	7.22	pH units	ALS
L1576452-1	MS-01	11-Feb-15	Total Suspended Solids	<2.0	mg/L	ALS
L1576452-1	MS-01	11-Feb-15	N-NH3 (Ammonia)	0.17	mg/L	ALS
L1576452-1	MS-01	11-Feb-15	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1576452-1	MS-01	11-Feb-15	Total Phosphorus	0.243	mg/L	ALS
L1576452-3	MS-01	11-Feb-15	Faecal Coliforms	57	ct/100mL	ALS
L1576452-1	MS-01	11-Feb-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1576452-1	MS-01	11-Feb-15	Oil & Grease - Total	<6.0	mg/L	ALS
L1581015-1	MS-01	25-Feb-15	pH	7.13	pH units	ALS
L1581015-1	MS-01	25-Feb-15	Total Suspended Solids	<2.0	mg/L	ALS
L1581015-1	MS-01	25-Feb-15	N-NH3 (Ammonia)	0.178	mg/L	ALS
L1581015-1	MS-01	25-Feb-15	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1581015-1	MS-01	25-Feb-15	Total Phosphorus	0.248	mg/L	ALS
L1581015-1	MS-01	25-Feb-15	Faecal Coliforms	0	ct/100mL	ALS
L1581015-1	MS-01	25-Feb-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1581015-1	MS-01	25-Feb-15	Oil & Grease - Total	<6.0	mg/L	ALS

Table 3: Flow and Volume Measurements-Part I Item 11 - February 2015

DATE	Camp Lake Freshwater Use (Mine Site Camp) Daily Potable Water (m3) - 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	Treated Sewage Effluent (m3) from MP-01 to Milne Port	Sewage Sludge Removed (m3) from Milne Port WWTP
1-Feb	26.9	30.3	26.9	0.3	30.3	0.0
2-Feb	52.6	30.3	52.6	0.0	30.3	0.0
3-Feb	32.2	30.3	32.2	0.8	30.3	0.3
4-Feb	26.8	30.3	26.8	0.8	30.3	0.3
5-Feb	42.1	30.3	42.1	0.0	30.3	0.0
6-Feb	39.7	30.3	39.7	0.3	30.3	0.5
7-Feb	38.1	15.1	38.1	0.3	15.1	0.0
8-Feb	67.6	15.1	67.6	0.3	15.1	0.3
9-Feb	32.6	45.4	32.6	0.3	45.4	0.0
10-Feb	38.2	15.1	38.2	0.3	15.1	0.3
11-Feb	36.8	45.4	36.8	0.3	45.4	0.3
12-Feb	36.6	45.4	36.6	0.3	45.4	0.0
13-Feb	46.3	30.3	46.3	0.3	30.3	0.0
14-Feb	60.4	15.1	60.4	0.3	15.1	0.3
15-Feb	34.5	30.3	34.5	0.3	30.3	0.0
16-Feb	28.5	30.3	28.5	0.3	30.3	0.3
17-Feb	78.9	15.1	78.9	0.3	15.1	0.0
18-Feb	32.4	30.3	32.4	0.3	30.3	0.0
19-Feb	42.7	45.4	42.7	0.3	45.4	0.3
20-Feb	48.1	30.3	48.1	0.3	30.3	0.0
21-Feb	31.2	15.1	31.2	0.3	15.1	0.3
22-Feb	57.6	45.4	57.6	0.3	45.4	0.0
23-Feb	35.1	30.3	35.1	0.3	30.3	0.0
24-Feb	23.4	30.3	23.4	0.0	30.3	0.3
25-Feb	62.6	30.3	62.6	0.8	30.3	0.0
26-Feb	34.5	30.3	34.5	0.3	30.3	0.0
27-Feb	52.2	37.9	52.2	0.3	37.9	0.3
28-Feb	36.6	22.7	36.6	0.0	22.7	0.3
Total	1175.2	832.8	1175.2	7.5	832.8	3.9

Notes:

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