



May 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 – April 2015

The following is the monthly report for April 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 April 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 April 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 April 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 April 2015. 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 Trevor Myers or Allan Knight at 647-253-0596 ext: 6010 or Jim Millard at ext: 6016.

Regards,

A handwritten signature in black ink that reads "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: Erik Allain, Robert Savard, Scott Burgess (AANDC), Stephen Bathory, Justin buller (QIA)

Table 1: Monitoring Program Water Sampling Summary for April 2015

Monitoring Program Station	Sampling Date	Lab ID#	Comment
Milne Port			
MP-01 (Sewage Treatment Facility)	April 8, 2015 April 22, 2015	L1596168-1, L1596168-3 L1601711-1	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)	April 8, 2015 April 22, 2015	L1596130-1, L1596130-3 L1601692-1	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
MS-MRY-09 (Bulk Sample Pit)	N/A	N/A	No flow, frozen conditions

Monitoring Program Station	Sampling Date	Lab ID#	Comment
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 - April 2015

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
MILNE PORT SITE						
L1596168-1	MP-01	8-Apr-15	pH	7.68	pH units	ALS
L1596168-1	MP-01	8-Apr-15	Total Suspended Solids	28.4	mg/L	ALS
L1596168-1	MP-01	8-Apr-15	N-NH3 (Ammonia)	0.648	mg/L	ALS
L1596168-1	MP-01	8-Apr-15	Total Kjeldahl Nitrogen	3.12	mg/L	ALS
L1596168-1	MP-01	8-Apr-15	Total Phosphorus	16.7	mg/L	ALS
L1596168-3	MP-01	8-Apr-15	Faecal Coliforms	0	ct/100mL	ALS
L1596168-1	MP-01	8-Apr-15	Biochemical Oxygen Demand	2.6	mg/L	ALS
L1596168-1	MP-01	8-Apr-15	Oil & Grease - Total	<6.0	mg/L	ALS
L1601711-1	MP-01	22-Apr-15	pH	7.86	pH units	ALS
L1601711-1	MP-01	22-Apr-15	Total Suspended Solids	<2.0	mg/L	ALS
L1601711-1	MP-01	22-Apr-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1601711-1	MP-01	22-Apr-15	Total Kjeldahl Nitrogen	1.59	mg/L	ALS
L1601711-1	MP-01	22-Apr-15	Total Phosphorus	11.5	mg/L	ALS
L1601711-1	MP-01	22-Apr-15	Faecal Coliforms	0	ct/100mL	ALS
L1601711-1	MP-01	22-Apr-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1601711-1	MP-01	22-Apr-15	Oil & Grease - Total	<6.0	mg/L	ALS
MARY RIVER MINE SITE						
L1596130-1	MS-01	8-Apr-15	pH	7.41	pH units	ALS
L1596130-1	MS-01	8-Apr-15	Total Suspended Solids	<2.0	mg/L	ALS
L1596130-1	MS-01	8-Apr-15	N-NH3 (Ammonia)	0.26	mg/L	ALS
L1596130-1	MS-01	8-Apr-15	Total Kjeldahl Nitrogen	0.31	mg/L	ALS
L1596130-1	MS-01	8-Apr-15	Total Phosphorus	0.513	mg/L	ALS
L1596130-3	MS-01	8-Apr-15	Faecal Coliforms	0	ct/100mL	ALS
L1596130-1	MS-01	8-Apr-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1596130-1	MS-01	8-Apr-15	Oil & Grease - Total	<6.0	mg/L	ALS
L1601692-1	MS-01	22-Apr-15	pH	7.52	pH units	ALS
L1601692-1	MS-01	22-Apr-15	Total Suspended Solids	8.8	mg/L	ALS
L1601692-1	MS-01	22-Apr-15	N-NH3 (Ammonia)	0.297	mg/L	ALS
L1601692-1	MS-01	22-Apr-15	Total Kjeldahl Nitrogen	0.98	mg/L	ALS
L1601692-1	MS-01	22-Apr-15	Total Phosphorus	0.811	mg/L	ALS
L1601692-1	MS-01	22-Apr-15	Faecal Coliforms	0	ct/100mL	ALS
L1601692-1	MS-01	22-Apr-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1601692-1	MS-01	22-Apr-15	Oil & Grease - Total	<6.0	mg/L	ALS

Table 3: Flow and Volume Measurements-Part I Item 11 - April 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	Km 32 Lake Milne Port Camp Fresh Water Use for Other Purposes (m3) MP-MRY-3	Treated Sewage Effluent (m ³) 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-Apr	54.4	45.4	0.0	54.4	0.0	45.4	0.0
2-Apr	35.0	45.4	0.0	35.0	0.0	45.4	0.0
3-Apr	34.6	15.1	0.0	34.6	0.3	15.1	0.0
4-Apr	64.9	30.3	0.0	64.9	0.3	30.3	0.3
5-Apr	36.1	45.4	0.0	36.1	0.3	45.4	0.0
6-Apr	31.1	45.4	0.0	31.1	0.3	45.4	0.0
7-Apr	71.9	30.3	0.0	71.9	0.3	30.3	0.0
8-Apr	58.9	45.4	0.0	58.9	0.3	45.4	0.0
9-Apr	96.3	45.4	0.0	96.3	0.3	45.4	0.0
10-Apr	46.2	30.3	0.0	46.2	0.3	30.3	0.0
11-Apr	61.3	45.4	0.0	61.3	0.3	45.4	0.3
12-Apr	31.0	30.3	0.0	31.0	0.3	30.3	0.0
13-Apr	44.6	30.3	0.0	44.6	0.3	30.3	0.0
14-Apr	38.2	45.4	0.0	38.2	0.3	45.4	0.0
15-Apr	47.9	45.4	0.0	47.9	0.3	45.4	0.0
16-Apr	82.2	60.6	0.0	82.2	0.3	60.6	0.0
17-Apr	53.1	45.4	0.0	53.1	0.0	45.4	0.0
18-Apr	33.6	45.4	0.0	33.6	0.5	45.4	0.3
19-Apr	47.5	45.4	0.0	47.5	0.3	45.4	0.0
20-Apr	91.0	30.3	0.0	91.0	0.3	30.3	0.6
21-Apr	27.4	45.4	0.0	27.4	0.3	45.4	0.0
22-Apr	139.8	45.4	0.0	139.8	0.3	45.4	0.0
23-Apr	55.5	45.4	0.0	55.5	0.3	45.4	0.0
24-Apr	33.5	45.4	0.0	33.5	0.3	45.4	0.0
25-Apr	39.7	30.3	0.0	39.7	0.3	30.3	0.0
26-Apr	65.6	45.4	0.0	65.6	0.3	45.4	0.0
27-Apr	24.0	45.4	0.0	24.0	0.3	45.4	0.0
28-Apr	38.8	45.4	0.0	38.8	0.3	45.4	0.0
29-Apr	57.2	45.4	1.0	57.2	0.3	45.4	0.0
30-Apr	38.8	45.4	2.0	38.8	0.3	45.4	0.3
Total	1580.2	1241.6	3.0	1580.2	7.0	1241.6	1.7

Notes:

WWTP - Waste Water Treatment Plant

PWSP - Polishing Waste Stabilization Pond

Approximately 50 m³ metres of water from MP-MRY-3 was used for the purposes of fire fighting on April 15.