Baffinland

October 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 Licence 2AM-MRY1325 Monthly SNP Report – September 2015

The following is the monthly report for September 2015 as required under Part I, Item 21 Water Licence 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 September 2015, water samples were collected as part of the Water Licence Monitoring Program and as part of the Aquatics Effects and Monitoring Program under Schedule I of Water Licence 2AM-MRY1325. Table 1 presents a list of samples/monitoring required under the Water Licences 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 September 2015.

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 September 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 the undersigned or Trevor Myers at 647-253-0596 ext: 6010 or Jim Millard at ext: 6016.

Regards,

Allan Knight, B.Sc.
Environmental Superintendent

Reviewed by:

JamesMillard
2015-10-29
21:23-04:00

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

Attach: Tables 1, 2 and 3
Cc: Justin Hack, Erik Allain (AANDC), Justin Buller (QIA)

Table 1: Monitoring Program Water Sampling Summary for September 2015

Monitoring Program Station	Sampling Date	Lab ID#	Comment
Milne Port			
MP-01 (Sewage Treatment Facility)	September 10, 2015 September 23, 2015	L1671369-1 L1676967-1,-3,-4	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-04 (Landfarm Facility & Snow Facility)	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	Flow monitored by means of flow meter/hydrological station
MP-C-B01 (Downstream of Quarry Area)	N/A	N/A	Flow monitored by means of flow meter/hydrological station
MP-C-F (Downstream of Construction Area)	N/A	N/A	No Flow
MP-C-H (Downstream of Construction Area)	September 2, 2015 September 9, 2015	L1668085-3 L1671368-2,-3	Flow monitored by means of flow meter/hydrological station
MP-Q1-01 (Downstream of Q1 Quarry)	N/A	N/A	No Flow
MP-Q1-02 (Downstream of Q1 Quarry)	September 2, 2015 September 9, 2015	L1668085-1,-2 L1671368-1	Flow monitored by means of flow meter/hydrological station
Mary River Mine Site			
MS-01 (Sewage Treatment Facility)	September 10, 2015 September 23, 2015	L1671357-1 L1676964-1,-2,-3	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-04B (Exploration Camp PWSP #2)	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-08 (Temporary Mine Waste Rock Stockpile pond)	N/A	N/A	Volume Reported Daily during discharge

Monitoring Program Station	Sampling Date	Lab ID#	Comment
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 discharge observed
MS-MRY-10 (Weathered Ore Bulk Sample Stockpile)	N/A	N/A	No discharge observed
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	Flow monitored by means of flow meter/hydrological station
MS-MRY-13B (Downstream Non-Hazardous Landfill)	September 2, 2015	L1668093-13	Flow monitored by means of flow meter/hydrological station
MS-C-A (Downstream of Construction and Borrow Areas)	September 2, 2015 September 10, 2015	L1668093-14 L1671149-1	Flow monitored by means of flow meter/hydrological station
MS-C-B (Downstream of Construction and Borrow Areas)	September 2, 2015 September 10, 2015	L1668093-1 L1671149-2	Flow monitored by means of flow meter/hydrological station
MS-C-C (Downstream of Construction and Borrow Areas)	September 10, 2015	L1671149-3	Flow monitored by means of flow meter/hydrological station
MS-C-D (Downstream of Construction and Borrow Areas)	September 2, 2015 September 10, 2015	L1668093-11,-13 L1671149-4	Flow monitored by means of flow meter/hydrological station
MS-C-E (Downstream of Construction and Borrow Areas)	September 2, 2015 September 10, 2015	L1668093-6,-7 L1671149-5	Flow monitored by means of flow meter/hydrological station
MS-C-F (Downstream of Construction and Borrow Areas)	September 2, 2015 September 10, 2015	L1668093-10 L1671149-6	Flow monitored by means of flow meter/hydrological station
MS-C-G (Downstream of Construction and Borrow Areas)	September 2, 2015 September 10, 2015	L1668093-4,-5 L1671149-7	Flow monitored by means of flow meter/hydrological station
MS-C-H (Downstream of Construction and Borrow Areas)	September 2, 2015	L1668093-16	Flow monitored by means of flow meter/hydrological station
MQ-C-A (Downstream of QMR2 Quarry)	September 2, 2015 September 10, 2015	L1668093-3, 45192 L1671149-8	Flow monitored by means of flow meter/hydrological station
MQ-C-B (Downstream of QMR2 Quarry)	September 2, 2015 September 10, 2015	L1668093-2 L1671149-9	Flow monitored by means of flow meter/hydrological station
MQ-C-D (Downstream of QMR2 Quarry)	September 2, 2015 September 10, 2015	L1668093-15 L1671149-10	Flow monitored by means of flow meter/hydrological station
MQ-C-E (Downstream of D1Q2 Quarry)	September 2, 2015 September 10, 2015	L1668093-8, 45191 L1671149-11	Flow monitored by means of flow meter/hydrological station
Steensby Port			
Steensby Exploration Camp is presently not active.			

Table 2. Water Chemistry Results - September 2015						
Sample Number	**Sample ID**	**Date Sampled**	**Parameter Name**	**Result**	**Units**	**Lab**
MILNE PORT SITE						
L1671369-1	MP-01	10-Sep-15	pH	7.74	pH units	ALS
L1671369-1	MP-01	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1671369-1	MP-01	10-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1671369-1	MP-01	10-Sep-15	Total Kjeldahl Nitrogen	0.84	mg/L	ALS
L1671369-1	MP-01	10-Sep-15	Total Phosphorus	11.8	mg/L	ALS
L1671369-1	MP-01	10-Sep-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1671369-1	MP-01	10-Sep-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1671369-1	MP-01	10-Sep-15	Oil & Grease - Total	<6.0	mg/L	ALS
L1676967-1	MP-01	23-Sep-15	pH	7.52	pH units	ALS
L1676967-1	MP-01	23-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1676967-1	MP-01	23-Sep-15	N-NH3 (Ammonia)	0.09	mg/L	ALS
L1676967-1	MP-01	23-Sep-15	Total Kjeldahl Nitrogen	1.23	mg/L	ALS
L1676967-1	MP-01	23-Sep-15	Total Phosphorus	14.9	mg/L	ALS
L1676967-1	MP-01	23-Sep-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1676967-1	MP-01	23-Sep-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1676967-1	MP-01	23-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1676967-3	MP-01 (Field Blank)	23-Sep-15	pH	6.08	pH units	ALS
L1676967-3	MP-01 (Field Blank)	23-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1676967-3	MP-01 (Field Blank)	23-Sep-15	N-NH3 (Ammonia)	0.135	mg/L	ALS
L1676967-3	MP-01 (Field Blank)	23-Sep-15	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1676967-3	MP-01 (Field Blank)	23-Sep-15	Total Phosphorus	<0.0030	mg/L	ALS
L1676967-3	MP-01 (Field Blank)	23-Sep-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1676967-3	MP-01 (Field Blank)	23-Sep-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1676967-3	MP-01 (Field Blank)	23-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1676967-4	MP-01 (Travel Blank)	23-Sep-15	pH	6.01	pH units	ALS
L1676967-4	MP-01 (Travel Blank)	23-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1676967-4	MP-01 (Travel Blank)	23-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1676967-4	MP-01 (Travel Blank)	23-Sep-15	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1676967-4	MP-01 (Travel Blank)	23-Sep-15	Total Phosphorus	<0.0030	mg/L	ALS
L1676967-4	MP-01 (Travel Blank)	23-Sep-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1676967-4	MP-01 (Travel Blank)	23-Sep-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1676967-4	MP-01 (Travel Blank)	23-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1668085-1	MP-Q1-02	2-Sep-15	pH	8.11	pH units	ALS
L1668085-1	MP-Q1-02	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668085-2	MP-Q1-02 (Duplicate)	2-Sep-15	pH	8.15	pH units	ALS
L1668085-2	MP-Q1-02 (Duplicate)	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1671368-1	MP-Q1-02	9-Sep-15	Conductivity	1090	uS/cm	ALS
L1671368-1	MP-Q1-02	9-Sep-15	pH	8.13	pH units	ALS
L1671368-1	MP-Q1-02	9-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1671368-1	MP-Q1-02	9-Sep-15	N-NH3 (Ammonia)	0.134	mg/L	ALS
L1671368-1	MP-Q1-02	9-Sep-15	N-NO3 (Nitrate)	17	mg/L	ALS
L1671368-1	MP-Q1-02	9-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1668085-3	MP-C-H	2-Sep-15	pH	8.32	pH units	ALS
L1668085-3	MP-C-H	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1671368-2	MP-C-H	9-Sep-15	Conductivity	329	uS/cm	ALS
L1671368-2	MP-C-H	9-Sep-15	pH	8.34	pH units	ALS
L1671368-2	MP-C-H	9-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1671368-2	MP-C-H	9-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1671368-2	MP-C-H	9-Sep-15	N-NO3 (Nitrate)	0.287	mg/L	ALS
L1671368-2	MP-C-H	9-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1671368-3	MP-C-H (Duplicate)	9-Sep-15	Conductivity	329	uS/cm	ALS
L1671368-3	MP-C-H (Duplicate)	9-Sep-15	pH	8.35	pH units	ALS
L1671368-3	MP-C-H (Duplicate)	9-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1671368-3	MP-C-H (Duplicate)	9-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1671368-3	MP-C-H (Duplicate)	9-Sep-15	N-NO3 (Nitrate)	0.286	mg/L	ALS
L1671368-3	MP-C-H (Duplicate)	9-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
MARY RIVER MINE SITE						
L1671357-1	MS-01	10-Sep-15	pH	7.68	pH units	ALS
L1671357-1	MS-01	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1671357-1	MS-01	10-Sep-15	N-NH3 (Ammonia)	0.193	mg/L	ALS
L1671357-1	MS-01	10-Sep-15	Total Kjeldahl Nitrogen	1.01	mg/L	ALS
L1671357-1	MS-01	10-Sep-15	Total Phosphorus	0.364	mg/L	ALS
L1671357-1	MS-01	10-Sep-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1671357-1	MS-01	10-Sep-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1671357-1	MS-01	10-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1676964-1	MS-01	23-Sep-15	pH	7.02	mg/L	ALS
L1676964-1	MS-01	23-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1676964-1	MS-01	23-Sep-15	N-NH3 (Ammonia)	0.126	mg/L	ALS
L1676964-1	MS-01	23-Sep-15	Total Kjeldahl Nitrogen	0.53	mg/L	ALS
L1676964-1	MS-01	23-Sep-15	Total Phosphorus	0.282	mg/L	ALS
L1676964-1	MS-01	23-Sep-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1676964-1	MS-01	23-Sep-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
L1676964-1	MS-01	23-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1676964-2	MS-01 (Field Blank)	23-Sep-15	pH	6.25	mg/L	ALS
L1676964-2	MS-01 (Field Blank)	23-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1676964-2	MS-01 (Field Blank)	23-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1676964-2	MS-01 (Field Blank)	23-Sep-15	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1676964-2	MS-01 (Field Blank)	23-Sep-15	Total Phosphorus	<0.0030	mg/L	ALS
L1676964-2	MS-01 (Field Blank)	23-Sep-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1676964-2	MS-01 (Field Blank)	23-Sep-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1676964-2	MS-01 (Field Blank)	23-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1676964-3	MS-01 (Travel Blank)	23-Sep-15	pH	6.01	mg/L	ALS
L1676964-3	MS-01 (Travel Blank)	23-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1676964-3	MS-01 (Travel Blank)	23-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1676964-3	MS-01 (Travel Blank)	23-Sep-15	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1676964-3	MS-01 (Travel Blank)	23-Sep-15	Total Phosphorus	<0.0030	mg/L	ALS
L1676964-3	MS-01 (Travel Blank)	23-Sep-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1676964-3	MS-01 (Travel Blank)	23-Sep-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1676964-3	MS-01 (Travel Blank)	23-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1668093-3	MQ-C-A	2-Sep-15	Conductivity	328	uS/cm	ALS
L1668093-3	MQ-C-A	2-Sep-15	pH	8.38	pH units	ALS
L1668093-3	MQ-C-A	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-3	MQ-C-A	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-3	MQ-C-A	2-Sep-15	N-NO3 (Nitrate)	<0.020	mg/L	ALS
L1668093-3	MQ-C-A	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1671149-8	MQ-C-A	10-Sep-15	pH	8.24	pH units	ALS
L1671149-8	MQ-C-A	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-2	MQ-C-B	2-Sep-15	Conductivity	695	uS/cm	ALS
L1668093-2	MQ-C-B	2-Sep-15	pH	8.25	pH units	ALS
L1668093-2	MQ-C-B	2-Sep-15	Total Suspended Solids	2.5	mg/L	ALS
L1668093-2	MQ-C-B	2-Sep-15	N-NH3 (Ammonia)	0.932	mg/L	ALS
L1668093-2	MQ-C-B	2-Sep-15	N-NO3 (Nitrate)	5.88	mg/L	ALS
L1668093-2	MQ-C-B	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
45192	MQ-C-B	2-Sep-15	Toxicity*	non-lethal	mortality %	Aquatox
L1671149-9	MQ-C-B	10-Sep-15	pH	8.09	pH units	ALS
L1671149-9	MQ-C-B	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-15	MQ-C-D	2-Sep-15	Conductivity	497	uS/cm	ALS
L1668093-15	MQ-C-D	2-Sep-15	pH	8.39	pH units	ALS
L1668093-15	MQ-C-D	2-Sep-15	Total Suspended Solids	2.3	mg/L	ALS
L1668093-15	MQ-C-D	2-Sep-15	N-NH3 (Ammonia)	0.182	mg/L	ALS
L1668093-15	MQ-C-D	2-Sep-15	N-NO3 (Nitrate)	1.19	mg/L	ALS
L1668093-15	MQ-C-D	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1671149-10	MQ-C-D	10-Sep-15	pH	8.13	pH units	ALS
L1671149-10	MQ-C-D	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1671149-13	MQ-C-D	10-Sep-15	pH	8.14	pH units	ALS
L1671149-13	MQ-C-D	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-8	MQ-C-E	2-Sep-15	Conductivity	340	uS/cm	ALS
L1668093-8	MQ-C-E	2-Sep-15	pH	8.19	pH units	ALS
L1668093-8	MQ-C-E	2-Sep-15	Total Suspended Solids	8	mg/L	ALS
L1668093-8	MQ-C-E	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-8	MQ-C-E	2-Sep-15	N-NO3 (Nitrate)	3.57	mg/L	ALS
L1668093-8	MQ-C-E	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
45191	MQ-C-E	2-Sep-15	Toxicity*	non-lethal	mortality %	Aquatox
L1671149-11	MQ-C-E	10-Sep-15	pH	8.23	pH units	ALS
L1671149-11	MQ-C-E	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-14	MS-C-A	2-Sep-15	Conductivity	227	uS/cm	ALS
L1668093-14	MS-C-A	2-Sep-15	pH	8.18	pH units	ALS
L1668093-14	MS-C-A	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-14	MS-C-A	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-14	MS-C-A	2-Sep-15	N-NO3 (Nitrate)	0.315	mg/L	ALS
L1668093-14	MS-C-A	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1671149-1	MS-C-A	10-Sep-15	pH	7.91	pH units	ALS
L1671149-1	MS-C-A	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-1	MS-C-B	2-Sep-15	Conductivity	225	uS/cm	ALS
L1668093-1	MS-C-B	2-Sep-15	pH	8.16	pH units	ALS
L1668093-1	MS-C-B	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-1	MS-C-B	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-1	MS-C-B	2-Sep-15	N-NO3 (Nitrate)	0.330	mg/L	ALS
L1668093-1	MS-C-B	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1671149-2	MS-C-B	10-Sep-15	pH	7.77	pH units	ALS
L1671149-2	MS-C-B	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1671149-3	MS-C-C	10-Sep-15	pH	7.83	pH units	ALS
L1671149-3	MS-C-C	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-11	MS-C-D	2-Sep-15	Conductivity	742	uS/cm	ALS
L1668093-11	MS-C-D	2-Sep-15	pH	8.4	pH units	ALS
L1668093-11	MS-C-D	2-Sep-15	Total Suspended Solids	3.5	mg/L	ALS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
L1668093-11	MS-C-D	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-11	MS-C-D	2-Sep-15	N-NO3 (Nitrate)	8.01	mg/L	ALS
L1668093-11	MS-C-D	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1668093-13	MS-C-D (Travel Blank)	2-Sep-15	Conductivity	<3.0	uS/cm	ALS
L1668093-13	MS-C-D (Travel Blank)	2-Sep-15	pH	7.01	pH units	ALS
L1668093-13	MS-C-D (Travel Blank)	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-13	MS-C-D (Travel Blank)	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-13	MS-C-D (Travel Blank)	2-Sep-15	N-NO3 (Nitrate)	<0.020	mg/L	ALS
L1668093-13	MS-C-D (Travel Blank)	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1671149-4	MS-C-D	10-Sep-15	pH	8.32	pH units	ALS
L1671149-4	MS-C-D	10-Sep-15	Total Suspended Solids	2.4	mg/L	ALS
L1668093-6	MS-C-E	2-Sep-15	Conductivity	578	uS/cm	ALS
L1668093-6	MS-C-E	2-Sep-15	pH	8.3	pH units	ALS
L1668093-6	MS-C-E	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-6	MS-C-E	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-6	MS-C-E	2-Sep-15	N-NO3 (Nitrate)	4.010	mg/L	ALS
L1668093-6	MS-C-E	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1668093-7	MS-C-E (Field Blank)	2-Sep-15	Conductivity	<3.0	uS/cm	ALS
L1668093-7	MS-C-E (Field Blank)	2-Sep-15	pH	7.09	pH units	ALS
L1668093-7	MS-C-E (Field Blank)	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-7	MS-C-E (Field Blank)	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-7	MS-C-E (Field Blank)	2-Sep-15	N-NO3 (Nitrate)	<0.020	mg/L	ALS
L1668093-7	MS-C-E (Field Blank)	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1671149-5	MS-C-E	10-Sep-15	pH	7.99	pH units	ALS
L1671149-5	MS-C-E	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-10	MS-C-F	2-Sep-15	Conductivity	245	uS/cm	ALS
L1668093-10	MS-C-F	2-Sep-15	pH	8.23	pH units	ALS
L1668093-10	MS-C-F	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-10	MS-C-F	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-10	MS-C-F	2-Sep-15	N-NO3 (Nitrate)	0.292	mg/L	ALS
L1668093-10	MS-C-F	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1671149-6	MS-C-F	10-Sep-15	pH	8.16	pH units	ALS
L1671149-6	MS-C-F	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-4	MS-C-G	2-Sep-15	Conductivity	215	uS/cm	ALS
L1668093-4	MS-C-G	2-Sep-15	pH	8.16	pH units	ALS
L1668093-4	MS-C-G	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-4	MS-C-G	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-4	MS-C-G	2-Sep-15	N-NO3 (Nitrate)	0.280	mg/L	ALS
L1668093-4	MS-C-G	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1668093-5	MS-C-G (Duplicate)	2-Sep-15	Conductivity	215	uS/cm	ALS
L1668093-5	MS-C-G (Duplicate)	2-Sep-15	pH	8.15	pH units	ALS
L1668093-5	MS-C-G (Duplicate)	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-5	MS-C-G (Duplicate)	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-5	MS-C-G (Duplicate)	2-Sep-15	N-NO3 (Nitrate)	0.281	mg/L	ALS
L1668093-5	MS-C-G (Duplicate)	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1671149-7	MS-C-G	10-Sep-15	pH	7.77	pH units	ALS
L1671149-7	MS-C-G	10-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-16	MS-C-H	2-Sep-15	Conductivity	254	uS/cm	ALS
L1668093-16	MS-C-H	2-Sep-15	pH	8.36	pH units	ALS
L1668093-16	MS-C-H	2-Sep-15	Total Suspended Solids	<2.0	mg/L	ALS
L1668093-16	MS-C-H	2-Sep-15	N-NH3 (Ammonia)	<0.050	mg/L	ALS
L1668093-16	MS-C-H	2-Sep-15	N-NO3 (Nitrate)	<0.020	mg/L	ALS
L1668093-16	MS-C-H	2-Sep-15	Oil & Grease - Total	<2.0	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Conductivity	509	umhos/cm	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	pH	8.37	pH units	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Total Suspended Solids	2.7	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Total Dissolved Solids	241	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Alkalinity, Total (as CaCO3)	173	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Dissolved Organic Carbon	4.1	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Total Organic Carbon	3.8	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Mercury (Hg)-Total	<0.000010	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Aluminum (Al)-Total	0.0126	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Antimony (Sb)-Total	<0.00010	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Arsenic (As)-Total	0.0001	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Barium (Ba)-Total	0.0274	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Cadmium (Cd)-Total	<0.000010	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Chromium (Cr)-Total	<0.00050	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Cobalt (Co)-Total	<0.00010	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Copper (Cu)-Total	0.00127	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Iron (Fe)-Total	<0.030	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Lead (Pb)-Total	<0.000050	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Lithium (Li)-Total	0.0016	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Manganese (Mn)-Total	0.000817	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Molybdenum (Mo)-Total	0.000171	mg/L	ALS

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
L1668093-13	MS-MRY-13B	2-Sep-15	Nickel (Ni)-Total	0.00665	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Selenium (Se)-Total	<0.0010	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Strontium (Sr)-Total	0.0214	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Thallium (Tl)-Total	<0.00010	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Tin (Sn)-Total	<0.00010	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Titanium (Ti)-Total	<0.010	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Uranium (U)-Total	0.0007	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Vanadium (V)-Total	<0.0010	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Zinc (Zn)-Total	<0.0030	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Oil and Grease, Total	<2.0	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Phenols (4AAP)	<0.0010	mg/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	F1 (C6-C10)	<100	ug/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	F2 (C10-C16)	<100	ug/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	F3 (C16-C34)	<250	ug/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	F4 (C34-C50)	<250	ug/L	ALS
L1668093-13	MS-MRY-13B	2-Sep-15	Total Hydrocarbons (C6-C50)	<380	ug/L	ALS

Note: **Acute lethality to Rainbow trout, Oncorhynchus mykiss (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/13)*

**Acute lethality to Daphnia magna (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/14)*

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

DATE	Camp Lake Freshwater Use (Mine Site Camp) - Daily Potable Water (m^3) MS-MRY-1	Camp Lake Daily Freshwater Use for Other Purposes - (m^3) MS-MRY-1	Km 32 Lake Milne Port Camp Daily Potable Water (m^3) MP-MRY-3	Km 32 Lake Milne Port Camp Fresh Water Use for Other Purposes (m^3) MP-MRY-3	Treated Sewage Effluent (m^3) from MS-01 to Discharge Location #1	Sewage Sludge Removed (m^3) from Mine Site WWTP	Treated Sewage Effluent (m^3) from MP-01 to Milne Port	Sewage Sludge Removed (m^3) from Milne Port WWTP
1-Sep	28.4	16.6	45.4	0.0	28.4	0.3	45.4	0.0
2-Sep	107.7	0.0	60.6	0.0	107.7	0.5	60.6	0.3
3-Sep	81.2	20.5	30.3	0.0	81.2	0.4	30.3	0.3
4-Sep	0.1	20.0	45.4	0.0	0.1	0.0	45.4	0.3
5-Sep	67.0	57.2	45.4	0.0	67.0	0.3	45.4	0.3
6-Sep	62.0	0.0	45.4	0.0	62.0	0.3	45.4	0.3
7-Sep	47.1	40.6	45.4	0.0	47.1	0.3	45.4	0.3
8-Sep	74.9	0.0	45.4	0.0	74.9	0.3	45.4	0.3
9-Sep	76.6	10.0	45.4	0.0	76.6	0.4	45.4	0.2
10-Sep	52.1	0.0	45.4	0.0	52.1	0.4	45.4	0.3
11-Sep	47.3	19.8	45.4	0.0	47.3	0.4	45.4	0.3
12-Sep	45.5	10.1	30.3	0.0	45.5	0.4	30.3	0.3
13-Sep	48.2	0.0	45.4	0.0	48.2	0.4	45.4	0.3
14-Sep	43.7	13.6	45.4	0.0	43.7	0.3	45.4	0.3
15-Sep	73.4	11.5	45.4	0.0	73.4	0.3	45.4	0.0
16-Sep	58.2	0.0	45.4	0.0	58.2	0.3	45.4	0.3
17-Sep	50.8	0.0	45.4	0.0	50.8	0.3	45.4	0.2
18-Sep	56.6	0.0	45.4	0.0	56.6	0.3	45.4	0.2
19-Sep	52.6	0.0	45.4	0.0	52.6	0.2	45.4	0.0
20-Sep	39.5	0.0	45.4	0.0	39.5	0.0	45.4	0.3
21-Sep	83.7	24.4	45.4	0.0	83.7	0.2	45.4	0.2
22-Sep	47.9	9.8	60.6	0.0	47.9	0.3	60.6	0.2
23-Sep	55.2	27.5	45.4	0.0	55.2	0.3	45.4	0.3
24-Sep	65.8	0.0	45.4	0.0	65.8	0.3	45.4	0.3
25-Sep	50.1	0.0	45.4	0.0	50.1	0.3	45.4	0.2
26-Sep	58.5	18.0	45.4	0.0	58.5	0.3	45.4	0.2
27-Sep	42.7	0.0	30.3	0.0	42.7	0.4	30.3	0.3
28-Sep	56.9	0.0	45.4	0.0	56.9	0.4	45.4	0.0
29-Sep	54.3	0.0	45.4	0.0	54.3	0.3	45.4	0.0
30-Sep	73.6	0.0	15.1	0.0	73.6	0.4	15.1	0.3
Total	**1701.7**	**299.7**	**1317.3**	**0.0**	**1701.7**	**9.7**	**1317.3**	**6.8**

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