



June 30, 2018

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 – May 2018

The following is the monthly report for May 2018 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 May 2018, 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/laboratory 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 May 2018.

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 May 2018.

We trust that the information provided in this monthly report is acceptable and should you have any questions regarding this report please contact myself, Connor Devereaux (ext. 6010), or Timothy Ray Sewell at 416.364.8820 ext. 6054.

Regards,

A handwritten signature in blue ink, appearing to read "William Bowden".

William Bowden
Environmental Superintendent

Reviewed by:

A handwritten signature in blue ink, appearing to read "Timothy Ray Sewell".

Timothy Ray Sewell
Head of Health, Safety and Environment

Attach: Tables 1, 2, and 3

Cc: Jonathon Mesher, Ian Parsons (INAC); Grant Goddard, William Napier, Megan Lord-Hoyle, Timothy Ray Sewell, Sylvain Proulx, Gerald Rogers, Francois Gaudrau, William Bowden (Baffinland); Stephen Bathory (QIA);

Table 1: Monitoring Program Water Sampling Summary for May 2018

Monitoring Program Station	Sampling Date	Lab ID#	Comment
Milne Port			
MP-01 (Sewage Treatment Facility)	5/1/2018	L2088476-1	Discharge volume reported daily
MP-0103 (Travel Blank of MP-01)	N/A	N/A	--
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 May
MP-C-B01 (Downstream of Construction Area)	N/A	N/A	No flow during month of May
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 May
MP-C-H (Downstream of Construction Area)	N/A	N/A	No flow during month of May
MP-Q1-01 (Downstream of Q1 Quarry)	N/A	N/A	No flow during month of May
MP-Q1-02 (Downstream of Q1 Quarry)	N/A	N/A	No flow during month of May

Mary River Mine Site			
MS-01 (Sewage Treatment Facility)	5/1/2018	L2088449-1	Discharge volume reported daily
MS-01b (Sewage Treatment Facility)	5/9/2018	L2092874-1	Discharge volume reported daily
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 May
MS-MRY-10 (Weathered Ore Bulk Sample Stockpile)	N/A	N/A	No flow during month of May
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)	5/21/2018 5/28/2018	L2098315-7 L2101788-6	
MS-MRY-13B (Downstream Non-Hazardous Landfill)	5/21/2018 5/28/2018 5/28/2018	L2098315-8 L2101788-7 L2101788-9	
MS-C-A (Downstream of Construction and Borrow Areas)	5/21/2018 5/28/2018	L2098315-1 L2101788-1	
MS-C-B (Downstream of Construction and Borrow Areas)	5/21/2018 5/28/2018	L2098315-2 L2101788-2	
MS-C-B01 (Duplicate of MS-C-B)	5/21/2018	L2098315-3	
MS-C-C (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of May
MS-C-D (Downstream of Construction and Borrow Areas)	5/21/2018 5/28/2018	L2098315-6 L2101788-5	
MS-C-E (Downstream of Construction and Borrow Areas)	5/21/2018 5/28/2018	L2098315-5 L2101788-4	

MS-C-F (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of May
MS-C-G (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of May
MS-C-H (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during month of May
MQ-C-A (Downstream of QMR2 Quarry)	5/29/2018 5/29/2018	L2103396-1 236287	
MQ-C-B (Downstream of QMR2 Quarry)	N/A	N/A	No flow during month of May
MQ-C-D (Downstream of QMR2 Quarry)	5/21/2018 5/28/2018	L2098315-4 L2101788-3	
MQ-C-E (Downstream of QMR2 Quarry)	5/21/2018 5/28/2018	L2098315-9 L2101788-8	
Steensby Port			
Steensby Exploration Camp is presently not active.	N/A	N/A	

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MP-01

Analyte	Sample ID			MP-01
	ALS Laboratory Sample ID			L2088476-1
	Sample Date & Time			5/1/2018 1:45:00 PM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
pH	pH units	0.1	6.0 - 9.5	7.81
Total Suspended Solids	mg/L	2	<120	2.1
Alkalinity, Total (as CaCO ₃)	mg/L	10	-	128
Ammonia, Total (as N)	mg/L	0.02	-	0.101
Total Kjeldahl Nitrogen	mg/L	0.15	-	1.8
Phosphorus, Total	mg/L	0.003	-	6.47
Fecal Coliforms	CFU/100mL	0	10,000	0
BOD	mg/L	2	100	<2.0
COD	mg/L	10	-	31
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0
Notes: Grey and bold highlight indicate results that exceeded the applicable water quality criteria. ¹ Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 5: Effluent Quality Discharge Limits for Sewage Treatment Facilities to the Ocean				

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-01

Analyte	Sample ID			MS-01
	ALS Laboratory Sample ID			L2088449-1
	Sample Date & Time			5/1/2018 3:00:00 PM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
pH	pH units	0.1	6.0 - 9.5	7.59
Total Suspended Solids	mg/L	2	35	2.2
Alkalinity, Total (as CaCO3)	mg/L	10	-	74
Ammonia, Total (as N)	mg/L	0.02	4	1.16
Total Kjeldahl Nitrogen	mg/L	0.15	-	4.12
Phosphorus, Total	mg/L	0.003	4	0.853
Fecal Coliforms	CFU/100mL	0	1,000	1
BOD	mg/L	2	30	2.6
COD	mg/L	10	-	37
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0
Notes: Grey and bold highlight indicate results that exceeded the applicable water quality criteria. ¹ Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 4: Effluent Quality Discharge Limits for Sewage Treatment Facilities to Freshwater Receiving Environment				

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-01

Analyte	Sample ID			MS-01B
	ALS Laboratory Sample ID			L2092874-1
	Sample Date & Time			5/9/2018 2:30:00 PM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
pH	pH units	0.1	6.0 - 9.5	7.74
Total Suspended Solids	mg/L	2	35	<2.0
Alkalinity, Total (as CaCO3)	mg/L	10	-	47
Ammonia, Total (as N)	mg/L	0.02	4	<0.020
Total Kjeldahl Nitrogen	mg/L	0.15	-	1.58
Phosphorus, Total	mg/L	0.003	4	1.65
Fecal Coliforms	CFU/100mL	0	1,000	0
BOD	mg/L	2	30	<2.0
COD	mg/L	10	-	25
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0
Notes: Grey and bold highlight indicate results that exceeded the applicable water quality criteria. ¹ Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 4: Effluent Quality Discharge Limits for Sewage Treatment Facilities to Freshwater Receiving Environment				

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-MRY-13A

Analyte	Sample ID			MS-MRY-13A	MS-MRY-13A
	ALS Laboratory Sample ID			L2098315-7	L2101788-6
	Sample Date & Time			5/21/2018 6:35:00 PM	5/28/2018 9:40:00 AM
	QA/QC Sample Type			N/A	N/A
	Units	LOR	Criteria ¹		
Conductivity	umhos/cm	3	-	74.5	-
pH	pH units	0.1	6.0 - 9.5	7.53	7.25
Total Suspended Solids	mg/L	2	15	14.8	<2.0
Total Dissolved Solids	mg/L	10	-	50	27
Turbidity	NTU	0.1	-	-	11
Alkalinity, Total (as CaCO3)	mg/L	10	-	21	-
Dissolved Organic Carbon	mg/L	1	-	3.7	-
Total Organic Carbon	mg/L	1	-	4.4	-
Aluminum (Al)-Total	mg/L	0.005	-	0.825	-
Antimony (Sb)-Total	mg/L	0.0001	-	0.00041	-
Arsenic (As)-Total	mg/L	0.0001	0.5	0.00026	-
Barium (Ba)-Total	mg/L	0.0002	-	0.00881	-
Beryllium (Be)-Total	mg/L	0.0001	-	<0.00010	-
Bismuth (Bi)-Total	mg/L	0.00005	-	<0.000050	-
Boron (B)-Total	mg/L	0.01	-	0.013	-
Cadmium (Cd)-Total	mg/L	0.00001	-	0.000013	-
Calcium (Ca)-Total	mg/L	0.5	-	5.86	-
Cesium (Cs)-Total	mg/L	0.00001	-	0.000105	-
Chromium (Cr)-Total	mg/L	0.0005	-	0.00216	-
Cobalt (Co)-Total	mg/L	0.0001	-	0.00099	-
Copper (Cu)-Total	mg/L	0.001	0.3	0.0026	-
Iron (Fe)-Total	mg/L	0.05	-	1.37	-
Lead (Pb)-Total	mg/L	0.00005	0.2	0.000868	-
Lithium (Li)-Total	mg/L	0.001	-	0.0027	-
Magnesium (Mg)-Total	mg/L	0.05	-	4.36	-
Manganese (Mn)-Total	mg/L	0.0005	-	0.038	-
Mercury (Hg)-Total	mg/L	0.00001	-	<0.000010	-
Molybdenum (Mo)-Total	mg/L	0.00005	-	0.000652	-
Nickel (Ni)-Total	mg/L	0.0005	0.5	0.005	-
Phosphorus (P)-Total	mg/L	0.05	-	<0.050	-
Potassium (K)-Total	mg/L	0.05	-	1.48	-
Rubidium (Rb)-Total	mg/L	0.0002	-	0.0038	-
Selenium (Se)-Total	mg/L	0.00005	-	0.000062	-
Silicon (Si)-Total	mg/L	0.1	-	1.77	-
Silver (Ag)-Total	mg/L	0.00005	-	<0.000050	-
Sodium (Na)-Total	mg/L	0.5	-	0.757	-
Strontium (Sr)-Total	mg/L	0.001	-	0.0072	-
Sulfur (S)-Total	mg/L	0.5	-	3.35	-
Tellurium (Te)-Total	mg/L	0.0002	-	<0.00020	-
Thallium (Tl)-Total	mg/L	0.00001	-	0.000018	-
Thorium (Th)-Total	mg/L	0.0001	-	0.00046	-
Tin (Sn)-Total	mg/L	0.0001	-	<0.00010	-
Titanium (Ti)-Total	mg/L	0.0003	-	0.0274	-
Tungsten (W)-Total	mg/L	0.0001	-	<0.00010	-
Uranium (U)-Total	mg/L	0.00001	-	0.000271	-
Vanadium (V)-Total	mg/L	0.0005	-	0.00134	-
Zinc (Zn)-Total	mg/L	0.003	0.5	0.0057	-
Zirconium (Zr)-Total	mg/L	0.0003	-	0.00047	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-
Phenols (4AAP)	mg/L	0.001	-	<0.0010	-
F1 (C6-C10)	ug/L	100	-	<100	-
F2 (C10-C16)	ug/L	100	-	<100	-
F3 (C16-C34)	ug/L	250	-	<250	-
F4 (C34-C50)	ug/L	250	-	<250	-
Total Hydrocarbons (C6-C50)	ug/L	380	-	<380	-
Chrom. to baseline at nC50		n/a	-	YES	-
2-Bromobenzotrifluoride	%	Surrogate	-	88.5	-
3,4-Dichlorotoluene	%	Surrogate	-	103.1	-

Notes:
Grey and bold highlight indicate results that exceeded the applicable water quality criteria.
¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 7: Effluent Quality Discharge Limits for the Landfill Facilities

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-MRY-13B

Analyte	Sample ID			MS-MRY-13B	MS-MRY-13B	MS-MRY-13B01
	ALS Laboratory Sample ID			L2098315-8	L2101788-7	L2101788-9
	Sample Date & Time			5/21/2018 6:00:00 PM	5/28/2018 9:25:00 AM	5/28/2018 9:25:00 AM
	QA/QC Sample Type			N/A	N/A	Duplicate
	Units	LOR	Water Licence Criteria ¹			
Conductivity	umhos/cm	3	-	317	-	-
pH	pH units	0.1	6.0 - 9.5	7.73	7.56	7.53
Total Suspended Solids	mg/L	2	15	20	2.4	<2.0
Total Dissolved Solids	mg/L	10	-	190	55	59
Turbidity	NTU	0.1	-	-	14.9	15.2
Alkalinity, Total (as CaCO3)	mg/L	10	-	38	-	-
Dissolved Organic Carbon	mg/L	1	-	10.3	-	-
Total Organic Carbon	mg/L	1	-	11.9	-	-
Aluminum (Al)-Total	mg/L	0.005	-	0.316	-	-
Antimony (Sb)-Total	mg/L	0.0001	-	0.00025	-	-
Arsenic (As)-Total	mg/L	0.0001	0.5	0.00018	-	-
Barium (Ba)-Total	mg/L	0.0002	-	0.0168	-	-
Beryllium (Be)-Total	mg/L	0.0001	-	<0.00010	-	-
Bismuth (Bi)-Total	mg/L	0.00005	-	<0.000050	-	-
Boron (B)-Total	mg/L	0.01	-	0.02	-	-
Cadmium (Cd)-Total	mg/L	0.00001	-	0.00001	-	-
Calcium (Ca)-Total	mg/L	0.5	-	19.2	-	-
Cesium (Cs)-Total	mg/L	0.00001	-	0.000033	-	-
Chromium (Cr)-Total	mg/L	0.0005	-	0.00083	-	-
Cobalt (Co)-Total	mg/L	0.0001	-	0.00065	-	-
Copper (Cu)-Total	mg/L	0.001	0.3	0.002	-	-
Iron (Fe)-Total	mg/L	0.05	-	0.623	-	-
Lead (Pb)-Total	mg/L	0.00005	0.2	0.000287	-	-
Lithium (Li)-Total	mg/L	0.001	-	0.0091	-	-
Magnesium (Mg)-Total	mg/L	0.05	-	13	-	-
Manganese (Mn)-Total	mg/L	0.0005	-	0.0463	-	-
Mercury (Hg)-Total	mg/L	0.00001	-	<0.000010	-	-
Molybdenum (Mo)-Total	mg/L	0.00005	-	0.00063	-	-
Nickel (Ni)-Total	mg/L	0.0005	0.5	0.00444	-	-
Phosphorus (P)-Total	mg/L	0.05	-	<0.050	-	-
Potassium (K)-Total	mg/L	0.05	-	3.19	-	-
Rubidium (Rb)-Total	mg/L	0.0002	-	0.00478	-	-
Selenium (Se)-Total	mg/L	0.00005	-	0.000141	-	-
Silicon (Si)-Total	mg/L	0.1	-	1.06	-	-
Silver (Ag)-Total	mg/L	0.00005	-	<0.000050	-	-
Sodium (Na)-Total	mg/L	0.5	-	2.8	-	-
Strontium (Sr)-Total	mg/L	0.001	-	0.0186	-	-
Sulfur (S)-Total	mg/L	0.5	-	9.17	-	-
Tellurium (Te)-Total	mg/L	0.0002	-	<0.00020	-	-
Thallium (Tl)-Total	mg/L	0.00001	-	0.000012	-	-
Thorium (Th)-Total	mg/L	0.0001	-	0.0001	-	-
Tin (Sn)-Total	mg/L	0.0001	-	<0.00010	-	-
Titanium (Ti)-Total	mg/L	0.0003	-	0.012	-	-
Tungsten (W)-Total	mg/L	0.0001	-	<0.00010	-	-
Uranium (U)-Total	mg/L	0.00001	-	0.000362	-	-
Vanadium (V)-Total	mg/L	0.0005	-	<0.00050	-	-
Zinc (Zn)-Total	mg/L	0.003	0.5	<0.0030	-	-
Zirconium (Zr)-Total	mg/L	0.0003	-	<0.00030	-	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-	-
Phenols (4AAP)	mg/L	0.001	-	0.0011	-	-
F1 (C6-C10)	ug/L	100	-	<100	-	-
F2 (C10-C16)	ug/L	100	-	<100	-	-
F3 (C16-C34)	ug/L	250	-	<250	-	-
F4 (C34-C50)	ug/L	250	-	<250	-	-
Total Hydrocarbons (C6-C50)	ug/L	380	-	<380	-	-
Chrom. to baseline at nC50		n/a	-	YES	-	-
2-Bromobenzotrifluoride	%	Surrogate	-	95	-	-
3,4-Dichlorotoluene	%	Surrogate	-	97.3	-	-

Notes:
Grey and bold highlight indicate results that exceeded the applicable water quality criteria.

¹Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 7: Effluent Quality Discharge Limits for the Landfill Facilities

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-A

Analyte	Sample ID			MS-C-A	MS-C-A
	ALS Laboratory Sample ID			L2098315-1	L2101788-1
	Sample Date & Time			5/21/2018 3:20:00 PM	5/28/2018 11:25:00 AM
	QA/QC Sample Type			N/A	N/A
	Units	LOR	Water Licence Criteria ¹		
Conductivity	umhos/cm	3	-	74.7	-
pH	pH units	0.1	6.0 - 9.5	7.37	7.43
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	5.2	2.4
Total Dissolved Solids	mg/L	10	-	-	45
Turbidity	NTU	0.1	-	-	16.4
Ammonia, Total (as N)	mg/L	0.02	-	0.029	-
Nitrate (as N)	mg/L	0.02	-	0.15	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-
Notes:					
Grey and bold highlight indicate results that exceeded the applicable water quality criteria.					
¹ Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project					

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-B

Analyte	Sample ID			MS-C-B	MS-C-B01	MS-C-B
	ALS Laboratory Sample ID			L2098315-2	L2098315-3	L2101788-2
	Sample Date & Time			5/21/2018 3:40:00 PM	5/21/2018 3:40:00 PM	5/28/2018 11:40:00 AM
	QA/QC Sample Type			N/A	Duplicate	N/A
	Units	LOR	Water Licence Criteria ¹			
Conductivity	umhos/cm	3	-	71	70.9	-
pH	pH units	0.1	6.0 - 9.5	7.24	7.35	7.48
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	4	4	2
Total Dissolved Solids	mg/L	10	-	-	-	35
Turbidity	NTU	0.1	-	-	-	16.4
Ammonia, Total (as N)	mg/L	0.02	-	<0.02	<0.02	-
Nitrate (as N)	mg/L	0.02	-	0.173	0.161	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	<2.0	-
Notes:						
Grey and bold highlight indicate results that exceeded the applicable water quality criteria.						
¹ Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project						

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-D

Analyte	Sample ID			MS-C-D	MS-C-D
	ALS Laboratory Sample ID			L2098315-6	L2101788-5
	Sample Date & Time			5/21/2018 4:55:00 PM	5/28/2018 10:25:00 AM
	QA/QC Sample Type			N/A	N/A
	Units	LOR	Water Licence Criteria ¹		
Conductivity	umhos/cm	3	-	348	-
pH	pH units	0.1	6.0 - 9.5	7.7	7.75
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	13.6	6.4
Total Dissolved Solids	mg/L	10	-	-	100
Turbidity	NTU	0.1	-	-	22.2
Ammonia, Total (as N)	mg/L	0.02	-	0.564	-
Nitrate (as N)	mg/L	0.02	-	0.726	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-
Notes:					
Grey and bold highlight indicate results that exceeded the applicable water quality criteria.					
¹ Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project					

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MS-C-E

Analyte	Sample ID			MS-C-E	MS-C-E
	ALS Laboratory Sample ID			L2098315-5	L2101788-4
	Sample Date & Time			5/21/2018 4:10:00 PM	5/28/2018 10:15:00 AM
	QA/QC Sample Type			N/A	N/A
	Units	LOR	Water Licence Criteria ¹		
Conductivity	umhos/cm	3	-	206	-
pH	pH units	0.1	6.0 - 9.5	7.67	7.54
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	42.8 ²	16.8
Total Dissolved Solids	mg/L	10	-	-	76
Turbidity	NTU	0.1	-	-	26.3
Ammonia, Total (as N)	mg/L	0.02	-	0.251	-
Nitrate (as N)	mg/L	0.02	-	0.39	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-
Notes: Grey and bold highlight indicate results that exceeded the applicable water quality criteria. ¹ Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project ² Continued run off from reported spill report #18-182					

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MQ-C-A

Analyte	Sample ID			MQ-C-A
	ALS Laboratory Sample ID			L2103396-1
	Sample Date & Time			5/29/2018 8:40:00 AM
	QA/QC Sample Type			N/A
	Units	LOR	Water Licence Criteria ¹	
Conductivity	umhos/cm	3	-	53.8
pH	pH units	0.1	6.0 - 9.5	7.5
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	3.1
Total Dissolved Solids	mg/L	10	-	-
Turbidity	NTU	0.1	-	-
Ammonia, Total (as N)	mg/L	0.02	-	0.125
Nitrate (as N)	mg/L	0.02	-	0.574
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0
Acute Toxicity			Non-Lethal	Non-lethal
Notes: Grey and bold highlight indicate results that exceeded the applicable water quality criteria. ¹ Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project				

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MQ-C-D

Analyte	Sample ID			MQ-C-D	MQ-C-D
	ALS Laboratory Sample ID			L2098315-4	L2101788-3
	Sample Date & Time			5/21/2018 2:05:00 PM	5/28/2018 1:55:00 PM
	QA/QC Sample Type			N/A	N/A
	Units	LOR	Water Licence Criteria ¹		
Conductivity	umhos/cm	3	-	264	-
pH	pH units	0.1	6.0 - 9.5	7.67	7.71
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	25.2	36.4²
Total Dissolved Solids	mg/L	10	-	-	86
Turbidity	NTU	0.1	-	-	70.1
Ammonia, Total (as N)	mg/L	0.02	-	0.173	-
Nitrate (as N)	mg/L	0.02	-	0.682	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-
Notes: Grey and bold highlight indicate results that exceeded the applicable water quality criteria. ¹ Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project ² Continued run off from reported spill report #18-182					

TABLE 2 - WATER QUALITY RESULTS FOR WATER LICENCE MONITORING LOCATION - MQ-C-E

Analyte	Sample ID			MQ-C-E	MQ-C-E
	ALS Laboratory Sample ID			L2098315-9	L2101788-8
	Sample Date & Time			5/21/2018 5:30:00 PM	5/28/2018 12:15:00 PM
	QA/QC Sample Type			N/A	N/A
	Units	LOR	Water Licence Criteria ¹		
Conductivity	umhos/cm	3	-	37.7	-
pH	pH units	0.1	6.0 - 9.5	7.19	7.5
Total Suspended Solids	mg/L	2	Grab 30 and Average 15	22.8	8
Total Dissolved Solids	mg/L	10	-	-	80
Turbidity	NTU	0.1	-	-	54.8
Ammonia, Total (as N)	mg/L	0.02	-	0.127	-
Nitrate (as N)	mg/L	0.02	-	0.266	-
Oil and Grease, Total	mg/L	2	No Visible Sheen	<2.0	-
Notes:					
Grey and bold highlight indicate results that exceeded the applicable water quality criteria.					
¹ Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 11: Effluent Quality Discharge Limits for Contact Water during the Operations Phase and the Early Revenue Phase of the Project					

Table 3: Flow and Volume Measurements-Part I Item 11 - May 2018

DATE	Camp Lake Freshwater Use (Mine Site Camp) - Daily Potable Water (m³) MS-MRY-1	Treated Sewage Effluent (m³) from MS-01 to Discharge Location #1	Treated Sewage Effluent (m³) from MS-01b to Discharge Location #1	Treated Sewage Effluent (m³) from MS-01b to PWSP at Mine Site MS-MRY-4b	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 Mine Site WWTP to PWSP at Mine Site - MS-MRY-4b	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 Removed (m³) from Lift Stations to PWSP at Milne Port - MP-01a	Water Use for Dust Suppression from Authorized Sources	Sewage Sludge Removed (m³) from Milne Port WWTP to PWSP at Milne Port - MP-01a
1-May-18	115.4	104.4	0.0	11.0	0.0	0.0	0.0	66.1	66.1	0.5	0.0	0.0	0.0
2-May-18	104.3	77.0	0.0	27.3	0.0	0.0	0.0	26.2	26.2	0.5	0.0	0.0	0.0
3-May-18	86.1	59.2	0.0	26.9	0.0	0.0	0.0	35.2	35.2	0.5	0.0	0.0	0.0
4-May-18	145.6	110.8	0.0	34.8	0.0	0.0	0.0	41.5	41.5	0.5	0.0	0.0	0.0
5-May-18	134.9	97.9	0.0	37.0	0.0	0.0	4.5	39.0	39.0	0.5	0.0	0.0	0.0
6-May-18	103.8	66.0	37.8	0.0	0.0	0.0	0.0	42.8	42.8	0.5	0.0	0.0	0.0
7-May-18	180.3	150.7	29.6	0.0	0.0	0.0	0.0	56.1	56.1	0.5	0.0	0.0	0.0
8-May-18	132.3	106.1	26.2	0.0	0.0	0.0	0.0	44.9	44.9	0.5	0.0	0.0	0.0
9-May-18	71.9	57.1	14.8	0.0	0.0	1.8	0.0	45.8	45.8	0.5	0.0	18.9	0.0
10-May-18	196.2	148.1	48.2	0.0	0.0	0.0	0.0	43.6	43.6	0.5	0.0	0.0	0.0
11-May-18	114.2	88.4	25.7	0.0	0.5	0.0	0.0	35.6	35.6	0.5	0.0	0.0	0.0
12-May-18	109.1	90.3	18.8	0.0	4.6	0.0	4.0	42.9	42.9	0.3	0.0	0.0	0.0
13-May-18	164.3	120.8	43.5	0.0	0.5	0.0	0.0	38.6	38.6	0.3	0.0	0.0	0.0
14-May-18	138.5	102.5	36.0	0.0	0.4	0.0	0.0	37.3	37.3	0.3	4.3	0.0	0.0
15-May-18	129.4	96.4	33.0	0.0	0.5	0.0	0.0	43.3	43.3	0.3	0.0	0.0	0.0
16-May-18	204.6	168.8	35.8	0.0	0.4	0.0	0.0	39.6	39.6	0.5	0.0	0.0	0.0
17-May-18	102.4	99.0	3.4	0.0	0.5	0.0	0.0	43.2	43.2	0.5	0.0	0.0	0.0
18-May-18	129.7	119.0	10.6	0.0	0.5	0.0	0.0	35.5	35.5	0.3	0.0	0.0	0.0
19-May-18	107.9	107.9	0.0	0.0	0.5	0.0	0.0	42.7	42.7	0.5	0.0	0.0	0.0
20-May-18	98.2	98.2	0.0	0.0	0.5	0.0	0.0	40.4	40.4	0.5	0.0	0.0	0.0
21-May-18	105.3	102.0	3.3	0.0	0.6	0.0	0.0	42.1	42.1	0.3	0.0	0.0	1.4
22-May-18	60.5	52.3	8.2	0.0	0.5	0.0	0.0	40.4	40.4	0.3	0.0	0.0	1.4
23-May-18	105.6	90.5	15.0	0.0	0.5	0.0	0.0	57.4	57.4	0.3	0.0	0.0	0.0
24-May-18	157.9	121.6	36.3	0.0	0.5	0.0	0.0	32.7	32.7	0.3	0.0	0.0	0.0
25-May-18	91.6	80.8	10.9	0.0	0.5	0.0	0.0	40.6	40.6	0.3	0.0	0.0	0.0
26-May-18	89.9	63.3	26.6	0.0	0.5	0.0	0.0	45.4	45.4	0.3	0.0	0.0	0.0
27-May-18	113.4	81.2	32.2	0.0	0.3	6.0	0.0	45.6	45.6	0.3	2.8	0.0	0.0
28-May-18	133.9	113.5	20.4	0.0	0.5	0.0	0.0	38.6	38.6	0.3	0.0	0.0	0.0
29-May-18	94.9	77.5	17.4	0.0	0.5	0.0	0.0	39.2	39.2	0.3	0.0	0.0	0.0
30-May-18	149.8	132.8	17.0	0.0	0.4	0.0	0.0	48.2	48.2	0.3	0.0	0.0	0.0
31-May-18	144.7	121.7	23.0	0.0	0.5	0.0	0.0	27.8	27.8	0.3	0.0	37.9	0.0
Total	3816.7	3105.9	573.8	137.0	14.1	7.8	8.5	1298.3	1298.3	13.1	7.1	56.8	2.8

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