

October 30, 2024

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

Resource Management Officer, CIRNAC
Nunavut District, Nunavut Region
P.O. Box 100
Iqaluit, NU X0A 0H0

**RE: Water Licence 2AM-MRY1325 Monthly Surveillance Network Program (SNP) Report
September 2024**

The following is the monthly report for September 2024 as required under Part I, Item 21 of the Type 'A' Water Licence 2AM-MRY1325 (the Licence) which 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 identify areas of non-compliance with regulated discharge parameters referred to in Part F"*

Monitoring Program

Table 1.1 presents a list of samples/monitoring conducted in September under the Licence at sites with discharge/flowing water conditions and the details concerning the collected water quality samples, including sample dates and laboratory identification numbers. Analytical water quality testing results are presented in Table 2. Table 3.1 presents water volumes consumed for domestic and industrial water purposes as well as select volumes of effluent and waste discharged and/or disposed at the Mary River Mine Site and Milne Port during September 2024.

Monitoring Program Results

Water Sampling and Analysis Results

Table 2 provides the analytical results detailing monitoring requirements. In September 2024, there were no exceedances from applicable water licence monitoring stations with the exception of seven (7) exceedances in September at SNP surface water monitoring stations. Elevated levels of TSS were observed at MS-C-A (September 22), MS-C-B (September 22), MS-C-C (September 22), MS-C-E (September 22), and MS-C-F (September 8, September 19, and September 22) from natural sedimentation events and Project-related run-off associated with a severe rainfall event.

Baffinland's Mary River Mine Site and the surrounding region experienced unprecedented levels of rainfall from September 20 through September 22. Over the three (3) day period, a maximum of 82.2 mm of rainfall was recorded at the Mary River Mine Site weather station in a 24-hour period, extrapolated to be a 200 year 24-hour rainfall event, with rainfall continuing and accumulating a maximum of 108 mm of precipitation over a 72-hour period. Hazardous weather conditions prevailed throughout this period which hindered response and monitoring initiatives across the Project.

Subsequent scheduled sampling was completed on October 2 and 3 documenting sample results, except for MS-C-F, below applicable water licence TSS criteria. The results demonstrate the elevated TSS was temporarily associated with significant rainfall. Grab sample exceedances associated with the rainfall event also resulted in exceedances of the monthly average concentration of TSS of 15 mg/L at the above SNP surface water monitoring stations during September 2024. MS-C-F is located down stream of KM 105 dam infrastructure within a ponded area.

ESC measures were assessed and installed where applicable in accordance with the Surface Water Aquatic Effects Management Plan (SWAEMP) and maintained and adjusted as required. These locations have had various ESC measures installed and maintained in the past. These existing measures were assessed, modified and maintained following the precipitation event. Spring berms and floc blocs was deployed within the drainage that the SNP sites evaluate. Due to the nature of the elevated TSS caused by an unprecedented amount of precipitation, effective reductions in solids resultant of field ESC measures were difficult to implement. Ongoing precipitation resulted in localized overland flooding in the monitoring area. Water quality monitoring and inspections of SNP sampling locations and ESC measures continued to be completed until the onset of frozen winter conditions.

The Milne Port Ore Stockpile Sedimentation Pond (East) (MP-05) experienced an uncontrolled release of surface water stored within the water management infrastructure on September 22 during the rainfall event. The overtopping event was minor in nature and was observed to occur from September 22 08:00 to 16:00. Milne Port Ore Stockpile Sedimentation pond levels were returned to normal operating levels through increased pumping capacity and the controlled discharge was subsequently discontinued. Due to the nature of the event, the volume of surface water that overtopped MP-05 was not able to be quantified. Hazardous weather conditions prevailed throughout September 22 and into the following day which hindered response and monitoring initiatives. Following emergency response efforts, MP-05 water quality monitoring was completed on September 23 to characterize the release. The results were fully compliant with all applicable water licence criteria, including TSS.

A full suite sample (Group 6) was not collected during September at Mine Site surface water monitoring station MS-MRY-13A downstream of the Mine Site non-hazardous waste landfill facility. MS-MRY-13A was dry during scheduled weekly sampling on September 1, September 8, and September 19. Flowing conditions were present during weekly sampling on September 25; however, a general chemistry bottle set was inadvertently collected. The full suite sample subsequently collected the following week on October 2 was compliant with applicable water licence criteria.

On May 10, 2024, an uncontrolled release from the KM105 Surface Water Management Pond (KM105 Pond) to the isolated adjacent tundra occurred due to seepage upstream of the northwest embankment. A summary of this incident and subsequent actions taken was reported in the May report submitted on June 30, 2024. In addition, details on initial mitigative actions were provided in the follow-up spill report submitted June 10, 2024. Monthly samples will continue to be collected at an established representative water quality monitoring station when flowing water is present, and a representative sample can be collected.

Flow and Volume Measurements

Table 3.1 provides a breakdown of volume measurements for September 2024, as required by Part I, Item 9 of the Licence. There were no exceedances of the source specific daily volume withdrawal limits in September 2024.

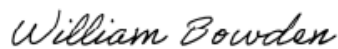
We trust that the information provided in this monthly report is acceptable. If you have any questions regarding this report, please contact the undersigned.

Prepared by:



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Connor Devereaux, Todd Swenson, Dale Kristoff, Irniq Lecompte (Baffinland)

Attachments

Attachments – Table 1.1, Table 2, Table 3.1

**Table 1.1: Monitoring Program
Water Sampling Summary**

Location	Location Description	Sample Date	Sample Type	Lab Sample ID
MP-01	Sewage Treatment Facility	2024-09-10	P	WT2426795-006
MP-01	Sewage Treatment Facility	2024-09-10	TB	WT2426795-001
MP-01B	Sewage Treatment Facility	2024-09-10	P	WT2426795-002
MP-01B	Sewage Treatment Facility	2024-09-10	TB	WT2426795-003
MP-03	Bulk Fuel Storage Facility Stormwater	2024-09-18	P	BF2400346-001
MP-04	Treated Oily Water from Milne Port Landfarm Facility to	2024-09-16	P	WT2427670-001
MP-05	Ore Stockpile Sedimentation Pond (East)	2024-09-23	P	BF2400355-001
MP-06	Ore Stockpile Sedimentation Pond (West)	2024-09-04	P	WT2426250-001
MP-06	Ore Stockpile Sedimentation Pond (West)	2024-09-04	TB	WT2426250-002
MP-C-B	Downstream of Construction Area	2024-09-01	P	BF2400306-003
MP-C-B	Downstream of Construction Area	2024-09-08	P	BF2400331-004
MP-C-B	Downstream of Construction Area	2024-09-15	P	WT2427676-005
MP-C-B	Downstream of Construction Area	2024-09-23	P	BF2400354-003
MP-C-B	Downstream of Construction Area	2024-09-23	FD	BF2400354-004
MP-C-K	Downstream of Construction Area	2024-09-01	P	BF2400306-004
MP-C-K	Downstream of Construction Area	2024-09-08	FD	BF2400331-003
MP-C-K	Downstream of Construction Area	2024-09-08	P	BF2400331-002
MP-C-K	Downstream of Construction Area	2024-09-15	P	WT2427676-004
MP-C-K	Downstream of Construction Area	2024-09-23	P	BF2400354-005

Notes:
Sample Types:
P - Permitted Sample
FB - Field Blank
FD - Field Duplicate
TB - Trip Blank
NST - No Sample Taken

**Table 1.1: Monitoring Program
Water Sampling Summary**

MP-C-K	Downstream of Construction Area	2024-09-23	TB	BF2400354-006
MP-C-K	Downstream of Construction Area	2024-09-30	P	BF2400366-002
MP-C-H	Downstream of Construction Area	2024-09-01	P	BF2400306-005
MP-C-H	Downstream of Construction Area	2024-09-08	P	BF2400331-005
MP-C-H	Downstream of Construction Area	2024-09-15	P	WT2427676-006
MP-C-H	Downstream of Construction Area	2024-09-23	FB	BF2400354-002
MP-C-H	Downstream of Construction Area	2024-09-23	P	BF2400354-001
MP-C-H	Downstream of Construction Area	2024-09-30	P	BF2400366-001
MP-C-J	Downstream of Construction Area	2024-09-01	P	BF2400306-001
MP-C-J	Downstream of Construction Area	2024-09-01	FB	BF2400306-002
MP-C-J	Downstream of Construction Area	2024-09-08	P	BF2400331-001
MP-C-J	Downstream of Construction Area	2024-09-15	P	WT2427676-003
MP-C-J	Downstream of Construction Area	2024-09-23	P	BF2400354-007
MP-C-J	Downstream of Construction Area	2024-09-30	P	BF2400366-003
MP-C-J	Downstream of Construction Area	2024-09-30	FD	BF2400366-004
MP-Q1-01	Downstream of Q1 Quarry	2024-09-23	P	BF2400354-009
MP-Q1-01	Downstream of Q1 Quarry	2024-09-30	P	BF2400366-006
MP-Q1-02	Downstream of Q1 Quarry	2024-09-01	P	BF2400306-006
MP-Q1-02	Downstream of Q1 Quarry	2024-09-08	P	BF2400331-006
MP-Q1-02	Downstream of Q1 Quarry	2024-09-15	P	WT2427676-001

Notes:

Sample Types:

P - Permitted Sample

FB - Field Blank

FD - Field Duplicate

TB - Trip Blank

NST - No Sample Taken

**Table 1.1: Monitoring Program
Water Sampling Summary**

MP-Q1-02	Downstream of Q1 Quarry	2024-09-15	FD	WT2427676-002
MP-Q1-02	Downstream of Q1 Quarry	2024-09-23	P	BF2400354-008
MP-Q1-02	Downstream of Q1 Quarry	2024-09-30	P	BF2400366-005
MS-01	Sewage Treatment Facility	2024-09-10	P	WT2426793-003
MS-01	Sewage Treatment Facility	2024-09-10	TB	WT2426793-006
MS-01B	Sewage Treatment Facility	2024-09-10	P	WT2426793-001
MS-01B	Sewage Treatment Facility	2024-09-10	TB	WT2426793-005
MS-06	Ore Stockpile Pond Stormwater	2024-09-03	P	BF2400311-001
MS-07	Run of Mine Ore Stockpile Pond Stormwater	2024-09-03	P	BF2400312-001
MS-08	Mine Waste Rock Stockpile Pond	2024-09-12	P	YL2401496-001
KM105-SWMP-SEEP-04	Mine KM105 Pond	2024-09-02	P	BF2400309
MS-MRY-09	Deposit 1 Surface Water Drainage	2024-09-01	P	BF2400305-010
MS-MRY-09	Deposit 1 Surface Water Drainage	2024-09-14	P	BF2400341-001
MS-MRY-09	Deposit 1 Surface Water Drainage	2024-09-19	P	BF2400348-012
MS-MRY-09	Deposit 1 Surface Water Drainage	2024-09-25	P	BF2400356-001
MS-MRY-09	Deposit 1 Surface Water Drainage	2024-09-25	TB	BF2400356-002
MS-MRY-13A	Downstream Non-Hazardous Landfill	2024-09-25	P	BF2400356-010
MS-MRY-13B	Downstream Non-Hazardous Landfill	2024-09-01	P	BF2400305-001
MS-MRY-13B	Downstream Non-Hazardous Landfill	2024-09-08	P	BF2400324-001
MS-MRY-13B	Downstream Non-Hazardous Landfill	2024-09-19	P	BF2400348-002

Notes:
Sample Types:
P - Permitted Sample
FB - Field Blank
FD - Field Duplicate
TB - Trip Blank
NST - No Sample Taken

**Table 1.1: Monitoring Program
Water Sampling Summary**

MS-MRY-13B	Downstream Non-Hazardous Landfill	2024-09-19	FB	BF2400348-003
MS-MRY-13B	Downstream Non-Hazardous Landfill	2024-09-25	P	BF2400356-008
MS-MRY-13B	Downstream Non-Hazardous Landfill	2024-09-25	FB	BF2400356-009
MS-C-A	Downstream of Construction and Borrow Areas	2024-09-01	P	BF2400305-003
MS-C-A	Downstream of Construction and Borrow Areas	2024-09-01	TB	BF2400305-015
MS-C-A	Downstream of Construction and Borrow Areas	2024-09-09	P	BF2400324-010
MS-C-A	Downstream of Construction and Borrow Areas	2024-09-19	P	BF2400348-007
MS-C-A	Downstream of Construction and Borrow Areas	2024-09-19	TB	BF2400348-008
MS-C-A	Downstream of Construction and Borrow Areas	2024-09-22	P	BF2400351-005
MS-C-B	Downstream of Construction and Borrow Areas	2024-09-01	P	BF2400305-006
MS-C-B	Downstream of Construction and Borrow Areas	2024-09-09	P	BF2400324-011
MS-C-B	Downstream of Construction and Borrow Areas	2024-09-09	FD	BF2400324-012
MS-C-B	Downstream of Construction and Borrow Areas	2024-09-19	P	BF2400348-009
MS-C-B	Downstream of Construction and Borrow Areas	2024-09-22	P	BF2400351-006
MS-C-C	Downstream of Construction and Borrow Areas	2024-09-01	P	BF2400305-014
MS-C-C	Downstream of Construction and Borrow Areas	2024-09-09	P	BF2400324-013
MS-C-C	Downstream of Construction and Borrow Areas	2024-09-19	P	BF2400348-006
MS-C-C	Downstream of Construction and Borrow Areas	2024-09-22	P	BF2400351-004
MS-C-D	Downstream of Construction and Borrow Areas	2024-09-01	P	BF2400305-013
MS-C-D	Downstream of Construction and Borrow Areas	2024-09-08	P	BF2400324-005

Notes:

Sample Types:

P - Permitted Sample

FB - Field Blank

FD - Field Duplicate

TB - Trip Blank

NST - No Sample Taken

**Table 1.1: Monitoring Program
Water Sampling Summary**

MS-C-D	Downstream of Construction and Borrow Areas	2024-09-19	P	BF2400348-005
MS-C-D	Downstream of Construction and Borrow Areas	2024-09-22	P	BF2400351-002
MS-C-E	Downstream of Construction and Borrow Areas	2024-09-01	P	BF2400305-012
MS-C-E	Downstream of Construction and Borrow Areas	2024-09-08	P	BF2400324-004
MS-C-E	Downstream of Construction and Borrow Areas	2024-09-19	P	BF2400348-004
MS-C-E	Downstream of Construction and Borrow Areas	2024-09-22	P	BF2400351-001
MS-C-F	Downstream of Construction and Borrow Areas	2024-09-01	P	BF2400305-008
MS-C-F	Downstream of Construction and Borrow Areas	2024-09-08	P	BF2400324-009
MS-C-F	Downstream of Construction and Borrow Areas	2024-09-19	P	BF2400348-010
MS-C-F	Downstream of Construction and Borrow Areas	2024-09-22	P	BF2400351-003
MS-C-G	Downstream of Construction and Borrow Areas	2024-09-01	P	BF2400305-009
MS-C-G	Downstream of Construction and Borrow Areas	2024-09-08	P	BF2400324-002
MS-C-G	Downstream of Construction and Borrow Areas	2024-09-19	P	BF2400348-001
MS-C-G	Downstream of Construction and Borrow Areas	2024-09-25	P	BF2400356-006
MS-C-H	Downstream of Construction and Borrow Areas	2024-09-01	P	BF2400305-011
MS-C-H	Downstream of Construction and Borrow Areas	2024-09-08	P	BF2400324-003
MS-C-H	Downstream of Construction and Borrow Areas	2024-09-19	P	BF2400348-011
MS-C-H	Downstream of Construction and Borrow Areas	2024-09-25	P	BF2400356-007
MQ-C-A	Downstream of QMR2 Quarry	2024-09-01	P	BF2400305-002
MQ-C-A	Downstream of QMR2 Quarry	2024-09-08	P	BF2400324-006

Notes:

Sample Types:

P - Permitted Sample

FB - Field Blank

FD - Field Duplicate

TB - Trip Blank

NST - No Sample Taken

**Table 1.1: Monitoring Program
Water Sampling Summary**

MQ-C-A	Downstream of QMR2 Quarry	2024-09-19	P	BF2400348-013
MQ-C-A	Downstream of QMR2 Quarry	2024-09-25	P	BF2400356-003
MQ-C-B	Downstream of QMR2 Quarry	2024-09-01	P	BF2400305-005
MQ-C-B	Downstream of QMR2 Quarry	2024-09-08	P	BF2400324-008
MQ-C-B	Downstream of QMR2 Quarry	2024-09-19	P	BF2400348-014
MQ-C-B	Downstream of QMR2 Quarry	2024-09-25	P	BF2400356-005
MQ-C-D	Downstream of QMR2 Quarry	2024-09-01	P	BF2400305-004
MQ-C-D	Downstream of QMR2 Quarry	2024-09-08	P	BF2400324-007
MQ-C-D	Downstream of QMR2 Quarry	2024-09-19	P	BF2400348-015
MQ-C-D	Downstream of QMR2 Quarry	2024-09-25	P	BF2400356-004

Notes:

Sample Types:

P - Permitted Sample

FB - Field Blank

FD - Field Duplicate

TB - Trip Blank

NST - No Sample Taken



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-01

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-01	MP-01
			MP-01_2024-09-10	QV-BT1_2024-09-08
			WT2426795	WT2426795
			2024-09-10	2024-09-10
			P	TB
Analyte	Units	Criteria		
pH, Lab	pH units	6.0-9.5	7.76	5.84
Total Suspended Solids	mg/L	120	3.2	< 1.0
Total Dissolved Solids	mg/L	-	1040	< 10
Turbidity	NTU	-	1.27	< 0.10
Alkalinity, Total	mg/L	-	89.9	< 2.0
Ammonia, Total (as N)	mg/L	-	0.0283	< 0.0050
Total Kjeldahl Nitrogen	mg/L	-	1.17	< 0.050
Fecal Coliforms	CFU/100mL	10000	1	< 1
BOD	mg/L	100	< 2.0	< 2.0
Oil and Grease, Total	mg/L	-	< 5.0	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen
Phosphorus, Nutrient	mg/L	-	6.79	< 0.0020

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-01B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-01B	MP-01B
			MP-01B_2024-09-10	QV-BT2_2024-09-10
			WT2426795	WT2426795
			2024-09-10	2024-09-10
			P	TB
Analyte	Units	Criteria		
pH, Lab	pH units	6.0-9.5	6.87	5.76
Total Suspended Solids	mg/L	120	< 1.5	< 1.0
Total Dissolved Solids	mg/L	-	730	< 20
Turbidity	NTU	-	0.15	< 0.10
Alkalinity, Total	mg/L	-	24.3	< 2.0
Ammonia, Total (as N)	mg/L	-	0.0386	0.0113
Total Kjeldahl Nitrogen	mg/L	-	1.26	< 0.050
Fecal Coliforms	CFU/100mL	10000	7	< 1
BOD	mg/L	100	< 2.0	< 2.0
Oil and Grease, Total	mg/L	-	< 5.0	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen
Phosphorus, Nutrient	mg/L	-	10.4	< 0.0020

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-03

		Location Name	MP-03
		Field Sample ID	MP-03_2024-09-18
		ALS Laboratory Work Order	BF2400346
		Sample Date	2024-09-18
		Sample Type	P
Analyte	Units	Criteria	
pH, Lab	pH units	-	8.04
Total Suspended Solids	mg/L	-	12.1
Total Dissolved Solids	mg/L	-	246
Turbidity	NTU	-	22.3
Ammonia, Total (as N)	mg/L	-	0.0099
Arsenic - Total	mg/L	-	< 0.00100
Copper - Total	mg/L	-	< 0.00500
Lead - Total	mg/L	0.001	0.00120
Nickel - Total	mg/L	-	< 0.00500
Zinc - Total	mg/L	-	< 0.0300
Oil and Grease, Total	mg/L	15	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen
Benzene	ug/L	370	< 0.50
Ethylbenzene	ug/L	90	< 0.50
Toluene	ug/L	2.0	< 0.50
F1-BTEX	ug/L	-	32
F1 (C6-C10)	ug/L	-	32
F2 (C10-C16)	ug/L	-	< 100
F3 (C16-C34)	ug/L	-	< 250
F4 (C34-C50)	ug/L	-	< 250
Total Petroleum Hydrocarbons (C6-C50)	ug/L	-	< 370
Phosphorus, Nutrient	mg/L	-	0.0090

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-04

Location Name			MP-04
Field Sample ID			MP-04_2024-09-16
ALS Laboratory Work Order			WT2427670
Sample Date			2024-09-16
Sample Type			P
Analyte	Units	Criteria	
pH, Lab	pH units	6.0-9.0	8.40
Total Suspended Solids	mg/L	15	1.6
Total Dissolved Solids	mg/L	-	481
Turbidity	NTU	-	5.46
Lead - Total	mg/L	0.0010	0.000213
Oil and Grease, Total	mg/L	15	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen
Benzene	ug/L	370	< 0.50
Ethylbenzene	ug/L	90	< 0.50
Toluene	ug/L	2.0	< 0.50
F1-BTEX	ug/L	-	< 25
F1 (C6-C10)	ug/L	-	< 25
F2 (C10-C16)	ug/L	-	1320
F3 (C16-C34)	ug/L	-	< 250
F4 (C34-C50)	ug/L	-	< 250
Total Petroleum Hydrocarbons (C6-C50)	ug/L	-	1320

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank

**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-05**

ALS Laboratory Work Order			Location Name
			MP-05
			Field Sample ID
			MP-05_2024-09-23
			Sample Date
			2024-09-23
			Sample Type
			P
Analyte	Units	Criteria	
Hardness	mg/L	-	262
pH, Lab	pH units	6.0-9.5	8.18
Total Suspended Solids	mg/L	30	5.5
Total Dissolved Solids	mg/L	-	390
Turbidity	NTU	-	20.3
Alkalinity, Total	mg/L	-	157
Ammonia, Total (as N)	mg/L	-	0.0739
Chloride	mg/L	-	60.5
Fluoride	mg/L	-	0.179
Nitrate	mg/L	-	2.11
Total Kjeldahl Nitrogen	mg/L	-	0.478
Sulfate	mg/L	-	73.1
Dissolved Organic Carbon	mg/L	-	6.15
Total Organic Carbon	mg/L	-	5.81
Aluminum - Total	mg/L	-	0.279
Antimony - Total	mg/L	-	< 0.00100
Arsenic - Total	mg/L	-	< 0.00100
Barium - Total	mg/L	-	0.0140
Cadmium - Total	mg/L	-	< 0.0000500
Calcium - Total	mg/L	-	59.4
Chromium - Total	mg/L	-	< 0.00500
Cobalt - Total	mg/L	-	< 0.00100
Copper - Total	mg/L	-	< 0.00500
Iron - Total	mg/L	-	0.342
Lead - Total	mg/L	-	0.000665
Lithium - Total	mg/L	-	< 0.0100
Magnesium - Total	mg/L	-	27.6
Manganese - Total	mg/L	-	0.204
Mercury - Total	mg/L	-	< 0.0000050
Molybdenum - Total	mg/L	-	0.00442
Nickel - Total	mg/L	-	< 0.00500
Phosphorus, Total	mg/L	-	< 0.500
Potassium - Total	mg/L	-	5.45
Selenium - Total	mg/L	-	< 0.000500
Sodium - Total	mg/L	-	27.5
Strontium - Total	mg/L	-	0.135
Thallium - Total	mg/L	-	< 0.000100
Tin - Total	mg/L	-	< 0.00100
Titanium - Total	mg/L	-	0.00861
Uranium - Total	mg/L	-	0.151
Vanadium - Total	mg/L	-	< 0.00500
Zinc - Total	mg/L	-	< 0.0300
Aluminum - Dissolved	mg/L	-	0.0134
Arsenic - Dissolved	mg/L	-	0.00027
Cadmium - Dissolved	mg/L	-	0.0000051
Calcium - Dissolved	mg/L	-	54.4
Copper - Dissolved	mg/L	-	0.00136
Iron - Dissolved	mg/L	-	0.020
Lead - Dissolved	mg/L	-	< 0.000050
Magnesium - Dissolved	mg/L	-	26.9
Manganese - Dissolved	mg/L	-	0.187
Mercury - Dissolved	mg/L	-	< 0.0000050
Molybdenum - Dissolved	mg/L	-	0.00474
Nickel - Dissolved	mg/L	-	0.00105
Potassium - Dissolved	mg/L	-	5.45
Selenium - Dissolved	mg/L	-	0.000138
Sodium - Dissolved	mg/L	-	27.5

Notes:

Highlight indicate result exceeded applicable criteria.

Half value used in monthly average when value is less than detection limit.

pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-05

Thallium - Dissolved	mg/L	-	0.000011
Uranium - Dissolved	mg/L	-	0.142
Zinc - Dissolved	mg/L	-	0.0022
Visible Sheen	-	No Visible Sheen	No Visible Sheen
Phenols	ug/L	-	< 1.0
Phosphorus, Nutrient	mg/L	-	0.0074

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank

**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-06**

			Location Name	MP-06	MP-06
			Field Sample ID	MP-06_2024-09-03	QP-BT2_2024-09-04
			ALS Laboratory Work Order	WT2426250	WT2426250
			Sample Date	2024-09-04	2024-09-04
			Sample Type	P	TB
Analyte	Units	Criteria			
Hardness	mg/L	-	328	< 0.50	
pH, Lab	pH units	6.0-9.5	8.27	5.55	
Total Suspended Solids	mg/L	30	1.2	< 1.0	
Total Dissolved Solids	mg/L	-	496	< 10	
Turbidity	NTU	-	3.05	< 0.10	
Alkalinity, Total	mg/L	-	106	< 2.0	
Ammonia, Total (as N)	mg/L	-	0.126	0.0057	
Chloride	mg/L	-	69.9	< 0.50	
Fluoride	mg/L	-	0.137	< 0.020	
Nitrate	mg/L	-	6.22	< 0.020	
Total Kjeldahl Nitrogen	mg/L	-	0.737	< 0.050	
Sulfate	mg/L	-	166	< 0.30	
Dissolved Organic Carbon	mg/L	-	2.91	2.34	
Total Organic Carbon	mg/L	-	2.97	< 0.50	
Aluminum - Total	mg/L	-	0.0674	< 0.0030	
Antimony - Total	mg/L	-	< 0.00100	< 0.00010	
Arsenic - Total	mg/L	-	< 0.00100	< 0.00010	
Barium - Total	mg/L	-	0.0125	< 0.00010	
Cadmium - Total	mg/L	-	< 0.0000500	< 0.0000050	
Calcium - Total	mg/L	-	58.6	< 0.050	
Chromium - Total	mg/L	-	< 0.00500	< 0.00050	
Cobalt - Total	mg/L	-	0.00135	< 0.00010	
Copper - Total	mg/L	-	< 0.00500	< 0.00050	
Iron - Total	mg/L	-	< 0.100	< 0.010	
Lead - Total	mg/L	-	< 0.000500	< 0.000050	
Lithium - Total	mg/L	-	0.0112	< 0.0010	
Magnesium - Total	mg/L	-	44.0	< 0.0050	
Manganese - Total	mg/L	-	0.642	< 0.00010	
Mercury - Total	mg/L	-	< 0.0000050	< 0.0000050	
Molybdenum - Total	mg/L	-	0.00364	< 0.000050	
Nickel - Total	mg/L	-	< 0.00500	< 0.00050	
Phosphorus, Total	mg/L	-	< 0.500	< 0.050	
Potassium - Total	mg/L	-	6.14	< 0.050	
Selenium - Total	mg/L	-	< 0.000500	< 0.000050	
Sodium - Total	mg/L	-	36.2	< 0.050	
Strontium - Total	mg/L	-	0.167	< 0.00020	
Thallium - Total	mg/L	-	< 0.000100	< 0.000010	
Tin - Total	mg/L	-	< 0.00100	< 0.00010	
Titanium - Total	mg/L	-	< 0.00300	< 0.00030	
Uranium - Total	mg/L	-	0.110	< 0.000010	
Vanadium - Total	mg/L	-	< 0.00500	< 0.00050	
Zinc - Total	mg/L	-	< 0.0300	< 0.0030	
Aluminum - Dissolved	mg/L	-	0.0078	< 0.0010	
Arsenic - Dissolved	mg/L	-	0.00019	< 0.00010	
Cadmium - Dissolved	mg/L	-	< 0.0000050	< 0.0000050	
Calcium - Dissolved	mg/L	-	58.0	0.138	
Copper - Dissolved	mg/L	-	0.00071	< 0.00020	
Iron - Dissolved	mg/L	-	< 0.010	< 0.010	
Lead - Dissolved	mg/L	-	< 0.000050	< 0.000050	
Magnesium - Dissolved	mg/L	-	40.4	< 0.0050	
Manganese - Dissolved	mg/L	-	0.626	< 0.00010	
Mercury - Dissolved	mg/L	-	< 0.0000050	< 0.0000050	
Molybdenum - Dissolved	mg/L	-	0.00376	< 0.000050	
Nickel - Dissolved	mg/L	-	0.00102	< 0.00050	
Potassium - Dissolved	mg/L	-	6.01	< 0.050	
Selenium - Dissolved	mg/L	-	0.000436	< 0.000050	

Notes:
 Highlight indicate result exceeded applicable criteria.
 Half value used in monthly average when value is less than detection limit.
 pH criteria is a range;6.0-9.5.
Sample Type:
 P-Permitted
 FD-Field Duplicate
 FB-Field Blank
 TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-06

Sodium - Dissolved	mg/L	-	31.6	< 0.050
Thallium - Dissolved	mg/L	-	0.000039	< 0.000010
Uranium - Dissolved	mg/L	-	0.104	< 0.000010
Zinc - Dissolved	mg/L	-	0.0010	0.0025
Visible Sheen	-	No Visible Sheen	No Visible Sheen	-
Phenols	ug/L	-	< 1.0	< 1.0
Phosphorus, Nutrient	mg/L	-	0.0036	< 0.0020

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-C-B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-C-B	MP-C-B	MP-C-B	MP-C-B	MP-C-B
			MP-C-B_2024-09-01	MP-C-B_2024-09-08	MP-C-B_2024-09-15	MP-C-B_2024-09-23	QP-CC2_2024-09-23
			BF2400306	BF2400331	WT2427676	BF2400354	BF2400354
			2024-09-01	2024-09-08	2024-09-15	2024-09-23	2024-09-23
			P	P	P	P	FD
Analyte	Units	Criteria					
Conductivity	umhos/cm	-	509	-	-	-	-
pH, Lab	pH units	6.0-9.5	8.02	8.20	8.41	8.02	8.08
Total Suspended Solids	mg/L	30	< 1.0	5.9	1.9	4.5	4.8
Total Dissolved Solids	mg/L	-	256	344	335	278	283
Turbidity	NTU	-	3.10	8.27	1.49	13.1	15.4
Ammonia, Total (as N)	mg/L	-	0.0932	-	-	-	-
Nitrate	mg/L	-	2.18	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-C-K

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-C-K	MP-C-K	MP-C-K	MP-C-K	MP-C-K	MP-C-K	MP-C-K
			MP-C-K_2024-09-01	MP-C-K_2024-09-08	QP-CC3_2024-09-08	MP-C-K_2024-09-15	MP-C-K_2024-09-23	QP-BT2_2024-09-23	MP-C-K_2024-09-30
			BF2400306	BF2400331	BF2400331	WT2427676	BF2400354	BF2400354	BF2400366
			2024-09-01	2024-09-08	2024-09-08	2024-09-15	2024-09-23	2024-09-23	2024-09-30
			P	P	FD	P	P	TB	P
Analyte	Units	Criteria							
Conductivity	umhos/cm	-	952	-	-	-	-	-	-
pH, Lab	pH units	6.0-9.5	8.01	8.07	8.09	8.20	8.01	6.23	8.02
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	575	821	820	781	778	< 19	712
Turbidity	NTU	-	0.32	0.42	0.48	0.12	1.13	< 0.10	0.40
Ammonia, Total (as N)	mg/L	-	0.0127	-	-	-	-	-	-
Nitrate	mg/L	-	0.456	-	-	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	No Visible Sheen	-	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-C-H

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-C-H	MP-C-H	MP-C-H	MP-C-H	MP-C-H	MP-C-H
			MP-C-H_2024-09-01	MP-C-H_2024-09-08	MP-C-H_2024-09-15	MP-C-H_2024-09-23	QP-BF2_2024-09-23	MP-C-H_2024-09-30
			BF2400306	BF2400331	WT2427676	BF2400354	BF2400354	BF2400366
			2024-09-01	2024-09-08	2024-09-15	2024-09-23	2024-09-23	2024-09-30
			P	P	P	P	FB	P
Analyte	Units	Criteria						
Conductivity	umhos/cm	-	351	-	-	-	-	-
pH, Lab	pH units	6.0-9.5	8.15	8.21	8.40	7.99	5.88	7.98
Total Suspended Solids	mg/L	30	1.4	< 1.0	< 1.0	< 1.2	< 1.0	< 1.5
Total Dissolved Solids	mg/L	-	176	166	166	148	19	150
Turbidity	NTU	-	2.35	0.25	< 0.10	0.70	< 0.10	0.17
Ammonia, Total (as N)	mg/L	-	0.0091	-	-	-	-	-
Nitrate	mg/L	-	0.977	-	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-C-J

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-C-J	MP-C-J	MP-C-J	MP-C-J	MP-C-J	MP-C-J	MP-C-J
			MP-C-J_2024-09-01	QD-BF8_2024-09-01	MP-C-J_2024-09-08	MP-C-J_2024-09-15	MP-C-J_2024-09-23	MP-C-J_2024-09-30	QP-CC3_2024-09-30
			BF2400306	BF2400306	BF2400331	WT2427676	BF2400354	BF2400366	BF2400366
			2024-09-01	2024-09-01	2024-09-08	2024-09-15	2024-09-23	2024-09-30	2024-09-30
			P	FB	P	P	P	P	FD
Analyte	Units	Criteria							
Conductivity	umhos/cm	-	427	< 1.0	-	-	-	-	-
pH, Lab	pH units	6.0-9.5	7.77	6.69	7.79	8.16	8.05	8.01	7.97
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	213	< 18	244	237	236	214	237
Turbidity	NTU	-	0.31	< 0.10	< 0.10	0.17	2.40	0.46	0.45
Ammonia, Total (as N)	mg/L	-	0.0070	0.0123	-	-	-	-	-
Nitrate	mg/L	-	0.060	< 0.020	-	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	< 5.0	-	-	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-Q1-01

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-Q1-01	MP-Q1-01
			MP-Q1_01_2024-09-23	MP-Q1-01_2024-09-30
			BF2400354	BF2400366
			2024-09-23	2024-09-30
			P	P
Analyte	Units	Criteria		
Conductivity	umhos/cm	-	172	-
pH, Lab	pH units	6.0-9.5	7.92	7.92
Total Suspended Solids	mg/L	30	< 1.0	1.0
Total Dissolved Solids	mg/L	-	107	102
Turbidity	NTU	-	4.99	7.37
Ammonia, Total (as N)	mg/L	-	< 0.0050	-
Nitrate	mg/L	-	0.210	-
Oil and Grease, Total	mg/L	-	< 5.0	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MP-Q1-02

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MP-Q1-02	MP-Q1-02	MP-Q1-02	MP-Q1-02	MP-Q1-02	MP-Q1-02
			MP-Q1-02_2024-09-01	MP-Q1-02_2024-09-08	MP-Q1-02_2024-09-15	QP-CC3_2024-09-15	MP-Q1-02_2024-09-23	MP-Q1-02_2024-09-30
			BF2400306	BF2400331	WT2427676	WT2427676	BF2400354	BF2400366
			2024-09-01	2024-09-08	2024-09-15	2024-09-15	2024-09-23	2024-09-30
			P	P	P	FD	P	P
Analyte	Units	Criteria						
Conductivity	umhos/cm	-	504	-	-	-	-	-
pH, Lab	pH units	6.0-9.5	7.92	8.16	8.40	8.10	7.88	7.89
Total Suspended Solids	mg/L	30	< 1.0	2.9	1.0	1.1	6.8	2.3
Total Dissolved Solids	mg/L	-	291	291	284	285	270	308
Turbidity	NTU	-	0.96	2.81	0.96	1.03	9.14	7.28
Ammonia, Total (as N)	mg/L	-	0.546	-	-	-	-	-
Nitrate	mg/L	-	15.6	-	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	No Visible Sheen
Mean Mortality to Daphnia magna	-	Not Acutely Toxic	Not Acutely Toxic	-	-	-	Not Acutely Toxic	-
Mean Mortality to Rainbow Trout	-	Not Acutely Toxic	Not Acutely Toxic	-	-	-	Not Acutely Toxic	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-01

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-01	MS-01
			MS-01_2024-09-10	QW-BT1_2024-09-10
			WT2426793	WT2426793
			2024-09-10	2024-09-10
			P	TB
Analyte	Units	Criteria		
pH, Lab	pH units	6.0-9.5	7.21	5.71
Total Suspended Solids	mg/L	35	1.8	< 1.0
Total Dissolved Solids	mg/L	-	1690	< 10
Turbidity	NTU	-	0.76	< 0.10
Alkalinity, Total	mg/L	-	25.0	< 2.0
Ammonia, Total (as N)	mg/L	4.0	0.0639	< 0.0050
Total Kjeldahl Nitrogen	mg/L	-	< 0.050	< 0.050
Fecal Coliforms	CFU/100mL	1000	1	< 1
BOD	mg/L	30	< 2.0	< 2.0
Oil and Grease, Total	mg/L	-	< 5.0	< 5.0
Phosphorus, Nutrient	mg/L	4.0	0.255	< 0.0020

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-01B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-01B	MS-01B
			MS-01B_2024-09-10	QW-BT2_2024-09-10
			WT2426793	WT2426793
			2024-09-10	2024-09-10
			P	TB
Analyte	Units	Criteria		
pH, Lab	pH units	6.0-9.5	8.33	5.79
Total Suspended Solids	mg/L	35	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	595	< 10
Turbidity	NTU	-	0.19	< 0.10
Alkalinity, Total	mg/L	-	203	< 2.0
Ammonia, Total (as N)	mg/L	4.0	0.0794	< 0.0050
Total Kjeldahl Nitrogen	mg/L	-	0.731	< 0.050
Fecal Coliforms	CFU/100mL	1000	2	< 1
BOD	mg/L	30	< 2.0	< 2.0
Oil and Grease, Total	mg/L	-	< 5.0	< 5.0
Phosphorus, Nutrient	mg/L	4.0	0.217	< 0.0020

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank

**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-06**

ALS Laboratory Work Order			Location Name
			MS-06
			Field Sample ID
			MS-06_2024-09-03
			Sample Date
			2024-09-03
			Sample Type
			P
Analyte	Units	Criteria	
Hardness	mg/L	-	978
Conductivity	umhos/cm	-	1760
pH, Lab	pH units	6.0-9.5	7.39
Total Suspended Solids	mg/L	30	< 1.0
Total Dissolved Solids	mg/L	-	1400
Turbidity	NTU	-	6.69
Alkalinity, Total	mg/L	-	34.6
Ammonia, Total (as N)	mg/L	-	1.49
Chloride	mg/L	-	85.9
Fluoride	mg/L	-	< 0.100
Nitrate	mg/L	-	16.6
Total Kjeldahl Nitrogen	mg/L	-	1.73
Sulfate	mg/L	-	799
Dissolved Organic Carbon	mg/L	-	2.30
Total Organic Carbon	mg/L	-	2.61
Aluminum - Total	mg/L	-	0.0357
Antimony - Total	mg/L	-	< 0.00100
Arsenic - Total	mg/L	-	< 0.00100
Barium - Total	mg/L	-	0.0232
Cadmium - Total	mg/L	-	0.000101
Calcium - Total	mg/L	-	80.9
Chromium - Total	mg/L	-	< 0.00500
Cobalt - Total	mg/L	-	0.0329
Copper - Total	mg/L	-	< 0.00500
Iron - Total	mg/L	-	0.194
Lead - Total	mg/L	-	< 0.000500
Lithium - Total	mg/L	-	0.0445
Magnesium - Total	mg/L	-	193
Manganese - Total	mg/L	-	17.5
Mercury - Total	mg/L	-	< 0.0000050
Molybdenum - Total	mg/L	-	0.00176
Nickel - Total	mg/L	-	0.0230
Phosphorus, Total	mg/L	-	< 0.500
Potassium - Total	mg/L	-	14.9
Selenium - Total	mg/L	-	0.00200
Sodium - Total	mg/L	-	31.8
Strontium - Total	mg/L	-	0.180
Thallium - Total	mg/L	-	0.000159
Tin - Total	mg/L	-	< 0.00100
Titanium - Total	mg/L	-	< 0.00300
Uranium - Total	mg/L	-	0.00137
Vanadium - Total	mg/L	-	< 0.00500
Zinc - Total	mg/L	-	< 0.0300
Aluminum - Dissolved	mg/L	-	< 0.0100
Arsenic - Dissolved	mg/L	-	< 0.00100
Cadmium - Dissolved	mg/L	-	0.000103
Calcium - Dissolved	mg/L	-	79.8
Copper - Dissolved	mg/L	-	< 0.00200
Iron - Dissolved	mg/L	-	< 0.100
Lead - Dissolved	mg/L	-	< 0.000500
Magnesium - Dissolved	mg/L	-	189
Manganese - Dissolved	mg/L	-	17.0
Mercury - Dissolved	mg/L	-	< 0.0000050
Molybdenum - Dissolved	mg/L	-	0.00153
Nickel - Dissolved	mg/L	-	0.0224
Potassium - Dissolved	mg/L	-	13.1
Selenium - Dissolved	mg/L	-	0.00191

Notes:

Highlight indicate result exceeded applicable criteria.

Half value used in monthly average when value is less than detection limit.

pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-06

Sodium - Dissolved	mg/L	-	32.3
Thallium - Dissolved	mg/L	-	0.000151
Uranium - Dissolved	mg/L	-	0.00126
Zinc - Dissolved	mg/L	-	< 0.0100
Visible Sheen	-	No Visible Sheen	No Visible Sheen
Mean Mortality to Daphnia magna	-	Not Acutly Toxic	Not Acutly Toxic
Mean Mortality to Rainbow Trout	-	Not Acutly Toxic	Not Acutly Toxic
Phosphorus, Nutrient	mg/L	-	< 0.0100

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank

**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-07**

ALS Laboratory Work Order			Location Name
			MS-07
			Field Sample ID
			MS-07_2024-09-03
			Sample Date
			2024-09-03
			Sample Type
			P
Analyte	Units	Criteria	
Hardness	mg/L	-	158
Conductivity	umhos/cm	-	336
pH, Lab	pH units	6.0-9.5	7.74
Total Suspended Solids	mg/L	30	1.2
Total Dissolved Solids	mg/L	-	188
Turbidity	NTU	-	3.26
Alkalinity, Total	mg/L	-	54.5
Ammonia, Total (as N)	mg/L	-	0.0252
Chloride	mg/L	-	8.95
Fluoride	mg/L	-	0.074
Nitrate	mg/L	-	4.79
Total Kjeldahl Nitrogen	mg/L	-	0.424
Sulfate	mg/L	-	80.0
Dissolved Organic Carbon	mg/L	-	1.90
Total Organic Carbon	mg/L	-	2.09
Aluminum - Total	mg/L	-	0.0698
Antimony - Total	mg/L	-	< 0.00010
Arsenic - Total	mg/L	-	< 0.00010
Barium - Total	mg/L	-	0.0146
Cadmium - Total	mg/L	-	0.0000139
Calcium - Total	mg/L	-	23.3
Chromium - Total	mg/L	-	< 0.00050
Cobalt - Total	mg/L	-	0.00034
Copper - Total	mg/L	-	0.00072
Iron - Total	mg/L	-	0.090
Lead - Total	mg/L	-	0.000168
Lithium - Total	mg/L	-	0.0033
Magnesium - Total	mg/L	-	22.6
Manganese - Total	mg/L	-	0.00387
Mercury - Total	mg/L	-	< 0.0000050
Molybdenum - Total	mg/L	-	0.00400
Nickel - Total	mg/L	-	< 0.00050
Phosphorus, Total	mg/L	-	< 0.050
Potassium - Total	mg/L	-	6.11
Selenium - Total	mg/L	-	0.000398
Sodium - Total	mg/L	-	2.80
Strontium - Total	mg/L	-	0.0484
Thallium - Total	mg/L	-	0.000012
Tin - Total	mg/L	-	< 0.00010
Titanium - Total	mg/L	-	0.00250
Uranium - Total	mg/L	-	0.00337
Vanadium - Total	mg/L	-	< 0.00050
Zinc - Total	mg/L	-	< 0.0030
Aluminum - Dissolved	mg/L	-	0.0130
Arsenic - Dissolved	mg/L	-	< 0.00010
Cadmium - Dissolved	mg/L	-	0.0000104
Calcium - Dissolved	mg/L	-	24.7
Copper - Dissolved	mg/L	-	0.00053
Iron - Dissolved	mg/L	-	< 0.010
Lead - Dissolved	mg/L	-	0.000057
Magnesium - Dissolved	mg/L	-	23.4
Manganese - Dissolved	mg/L	-	0.00122
Mercury - Dissolved	mg/L	-	< 0.0000050
Molybdenum - Dissolved	mg/L	-	0.00385
Nickel - Dissolved	mg/L	-	< 0.00050
Potassium - Dissolved	mg/L	-	6.21
Selenium - Dissolved	mg/L	-	0.000429

Notes:

Highlight indicate result exceeded applicable criteria.

Half value used in monthly average when value is less than detection limit.

pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-07

Sodium - Dissolved	mg/L	-	2.95
Thallium - Dissolved	mg/L	-	0.000011
Uranium - Dissolved	mg/L	-	0.00322
Zinc - Dissolved	mg/L	-	< 0.0010
Visible Sheen	-	No Visible Sheen	No Visible Sheen
Mean Mortality to Daphnia magna	-	Not Acutly Toxic	Not Acutly Toxic
Mean Mortality to Rainbow Trout	-	Not Acutly Toxic	Not Acutly Toxic
Phosphorus, Nutrient	mg/L	-	0.0040

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank

**Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-08**

			Location Name	MS-08
			Field Sample ID	MS-08_2024-09-12
			ALS Laboratory Work Order	YL2401496
			Sample Date	2024-09-12
			Sample Type	P
Analyte	Units	Criteria		
Hardness	mg/L	-	531	
Conductivity	umhos/cm	-	950	
pH, Lab	pH units	6.0-9.5	7.32	
Total Suspended Solids	mg/L	30	2.0	
Total Dissolved Solids	mg/L	-	739	
Turbidity	NTU	-	2.67	
Alkalinity, Total	mg/L	-	18.6	
Ammonia, Total (as N)	mg/L	-	0.734	
Chloride	mg/L	-	8.38	
Fluoride	mg/L	-	< 0.100	
Nitrate	mg/L	-	16.5	
Total Kjeldahl Nitrogen	mg/L	-	1.28	
Sulfate	mg/L	-	396	
Dissolved Organic Carbon	mg/L	-	0.87	
Total Organic Carbon	mg/L	-	0.94	
Aluminum - Total	mg/L	-	0.0506	
Antimony - Total	mg/L	-	< 0.00010	
Arsenic - Total	mg/L	-	< 0.00010	
Barium - Total	mg/L	-	0.0186	
Cadmium - Total	mg/L	-	0.000115	
Calcium - Total	mg/L	-	39.5	
Chromium - Total	mg/L	-	< 0.00050	
Cobalt - Total	mg/L	-	0.0349	
Copper - Total	mg/L	-	0.00396	
Iron - Total	mg/L	-	0.398	
Lead - Total	mg/L	-	< 0.000050	
Lithium - Total	mg/L	-	0.0117	
Magnesium - Total	mg/L	-	106	
Manganese - Total	mg/L	-	3.10	
Mercury - Total	mg/L	-	< 0.0000050	
Molybdenum - Total	mg/L	-	0.00252	
Nickel - Total	mg/L	-	0.0553	
Phosphorus, Total	mg/L	-	< 0.050	
Potassium - Total	mg/L	-	5.87	
Selenium - Total	mg/L	-	0.00580	
Sodium - Total	mg/L	-	3.33	
Strontium - Total	mg/L	-	0.0510	
Thallium - Total	mg/L	-	0.000080	
Tin - Total	mg/L	-	< 0.00010	
Titanium - Total	mg/L	-	0.00171	
Uranium - Total	mg/L	-	0.000775	
Vanadium - Total	mg/L	-	< 0.00050	
Zinc - Total	mg/L	-	0.0068	
Aluminum - Dissolved	mg/L	-	0.0021	
Arsenic - Dissolved	mg/L	-	< 0.00010	
Cadmium - Dissolved	mg/L	-	0.000120	
Calcium - Dissolved	mg/L	-	37.7	
Copper - Dissolved	mg/L	-	0.00184	
Iron - Dissolved	mg/L	-	< 0.010	
Lead - Dissolved	mg/L	-	< 0.000050	
Magnesium - Dissolved	mg/L	-	106	
Manganese - Dissolved	mg/L	-	3.08	
Mercury - Dissolved	mg/L	-	< 0.0000050	
Molybdenum - Dissolved	mg/L	-	0.00224	
Nickel - Dissolved	mg/L	-	0.0547	
Potassium - Dissolved	mg/L	-	5.80	
Selenium - Dissolved	mg/L	-	0.00646	

Notes:

Highlight indicate result exceeded applicable criteria.

Half value used in monthly average when value is less than detection limit.

pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-08

Sodium - Dissolved	mg/L	-	3.24
Thallium - Dissolved	mg/L	-	0.000079
Uranium - Dissolved	mg/L	-	0.000602
Zinc - Dissolved	mg/L	-	0.0068
Visible Sheen	-	No Visible Sheen	No Visible Sheen
Mean Mortality to Daphnia magna	-	Not Acutly Toxic	Not Acutly Toxic
Mean Mortality to Rainbow Trout	-	Not Acutly Toxic	Not Acutly Toxic
Phosphorus, Nutrient	mg/L	-	< 0.0020

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank

**Table 2 : Water Quality Results for Water Licence
Monitoring Location - KM105-SWMP-SEEP-04**

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type		KM105-SWMP-SEEP-04 ¹
		KM105-SWMP-SEEP-04_2024-09-02
		BF2400309
		2024-09-02
		P
Analyte	Units	
Hardness	mg/L	367
Conductivity	umhos/cm	761
pH, Lab	pH units	7.66
Total Suspended Solids	mg/L	24.2
Total Dissolved Solids	mg/L	496
Turbidity	NTU	33.9
Alkalinity, Total	mg/L	100
Ammonia, Total (as N)	mg/L	0.401
Chloride	mg/L	31.5
Fluoride	mg/L	0.079
Nitrate	mg/L	10.7
Total Kjeldahl Nitrogen	mg/L	0.608
Sulfate	mg/L	200
Dissolved Organic Carbon	mg/L	2.52
Total Organic Carbon	mg/L	2.35
Aluminum - Total	mg/L	1.62
Antimony - Total	mg/L	< 0.00100
Arsenic - Total	mg/L	< 0.00100
Barium - Total	mg/L	0.0393
Cadmium - Total	mg/L	0.000989
Calcium - Total	mg/L	63.1
Chromium - Total	mg/L	< 0.00500
Cobalt - Total	mg/L	0.00760
Copper - Total	mg/L	< 0.00500
Iron - Total	mg/L	2.67
Lead - Total	mg/L	0.000958
Lithium - Total	mg/L	< 0.0100
Magnesium - Total	mg/L	57.2
Manganese - Total	mg/L	1.76
Mercury - Total	mg/L	< 0.0000050
Molybdenum - Total	mg/L	0.00818
Nickel - Total	mg/L	0.00765
Phosphorus, Total	mg/L	< 0.500
Potassium - Total	mg/L	7.39
Selenium - Total	mg/L	0.00138
Sodium - Total	mg/L	8.44
Strontium - Total	mg/L	0.186
Thallium - Total	mg/L	< 0.000100
Tin - Total	mg/L	< 0.00100
Titanium - Total	mg/L	0.0699
Uranium - Total	mg/L	0.0126
Vanadium - Total	mg/L	< 0.00500
Zinc - Total	mg/L	< 0.0300
Aluminum - Dissolved	mg/L	0.0103
Arsenic - Dissolved	mg/L	< 0.00100
Cadmium - Dissolved	mg/L	0.000862
Calcium - Dissolved	mg/L	62.0
Copper - Dissolved	mg/L	< 0.00200
Iron - Dissolved	mg/L	< 0.100
Lead - Dissolved	mg/L	< 0.000500
Magnesium - Dissolved	mg/L	51.5
Manganese - Dissolved	mg/L	1.59
Mercury - Dissolved	mg/L	< 0.0000050
Molybdenum - Dissolved	mg/L	0.00772
Nickel - Dissolved	mg/L	< 0.00500

Notes:

Highlight indicate result exceeded applicable criteria.

Half value used in monthly average when value is less than detection limit.

pH criteria is a range;6.0-9.5.

Sample Type:

P-Permitted

FD-Field Duplicate

FB-Field Blank

TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - KM105-SWMP-SEEP-04

Location Name		KM105-SWMP-SEEP-04 ¹
Field Sample ID		KM105-SWMP-SEEP-04_2024-09-02
ALS Laboratory Work Order		BF2400309
Sample Date		2024-09-02
Sample Type		P
Analyte	Units	
Potassium - Dissolved	mg/L	6.08
Selenium - Dissolved	mg/L	0.00126
Sodium - Dissolved	mg/L	7.63
Thallium - Dissolved	mg/L	< 0.000100
Uranium - Dissolved	mg/L	0.0120
Zinc - Dissolved	mg/L	0.0104
Visible Sheen	-	No Visible Sheen
Mean Mortality to Daphnia magna	-	Not Acutely Toxic
Mean Mortality to Rainbow Trout	-	Not Acutely Toxic
Phosphorus, Nutrient	mg/L	0.0102

¹ Effluent from KM105 Surface Water Management Pond

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-MRY-09

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-MRY-09	MS-MRY-09	MS-MRY-09	MS-MRY-09	MS-MRY-09
			MS-MRY-09_2024-09-01	MS-MRY-09_2024-09-14	MS-MRY-09_2024-09-19	MS-MRY-09_2024-09-25	MS-MRY-09_2024-09-25
			BF2400305	BF2400341	BF2400348	BF2400356	BF2400356
			2024-09-01	2024-09-14	2024-09-19	2024-09-25	2024-09-25
			P	P	P	P	TB
Analyte	Units	Criteria					
Hardness	mg/L	-	83.3	-	-	-	-
pH, Lab	pH units	6.0-9.5	7.89	7.91	8.02	7.53	6.04
Total Suspended Solids	mg/L	15	< 1.0	< 1.0	< 1.0	< 1.2	< 1.0
Total Dissolved Solids	mg/L	-	90	96	107	76	< 20
Turbidity	NTU	-	0.21	0.12	0.24	0.88	< 0.10
Alkalinity, Total	mg/L	-	72.8	-	-	-	-
Ammonia, Total (as N)	mg/L	-	0.0146	-	-	-	-
Chloride	mg/L	-	17.9	-	-	-	-
Fluoride	mg/L	-	< 0.020	-	-	-	-
Nitrate	mg/L	-	0.050	-	-	-	-
Total Kjeldahl Nitrogen	mg/L	-	0.123	-	-	-	-
Sulfate	mg/L	-	2.95	-	-	-	-
Dissolved Organic Carbon	mg/L	-	2.44	-	-	-	-
Total Organic Carbon	mg/L	-	2.92	-	-	-	-
Aluminum - Total	mg/L	-	0.0173	-	-	-	-
Antimony - Total	mg/L	-	< 0.00010	-	-	-	-
Arsenic - Total	mg/L	0.50	< 0.00010	-	-	-	-
Barium - Total	mg/L	-	0.0114	-	-	-	-
Cadmium - Total	mg/L	-	< 0.0000050	-	-	-	-
Calcium - Total	mg/L	-	15.7	-	-	-	-
Chromium - Total	mg/L	-	< 0.00050	-	-	-	-
Cobalt - Total	mg/L	-	< 0.00010	-	-	-	-
Copper - Total	mg/L	0.30	0.00225	-	-	-	-
Iron - Total	mg/L	-	0.020	-	-	-	-
Lead - Total	mg/L	0.20	< 0.000050	-	-	-	-
Lithium - Total	mg/L	-	< 0.0010	-	-	-	-
Magnesium - Total	mg/L	-	10.7	-	-	-	-
Manganese - Total	mg/L	-	0.00070	-	-	-	-
Mercury - Total	mg/L	-	< 0.0000050	-	-	-	-
Molybdenum - Total	mg/L	-	0.00114	-	-	-	-
Nickel - Total	mg/L	0.50	< 0.00050	-	-	-	-
Phosphorus, Total	mg/L	-	< 0.050	-	-	-	-
Potassium - Total	mg/L	-	2.44	-	-	-	-
Selenium - Total	mg/L	-	0.000059	-	-	-	-
Sodium - Total	mg/L	-	0.703	-	-	-	-
Strontium - Total	mg/L	-	0.0138	-	-	-	-
Thallium - Total	mg/L	-	0.000013	-	-	-	-
Tin - Total	mg/L	-	< 0.00010	-	-	-	-
Titanium - Total	mg/L	-	0.00080	-	-	-	-
Uranium - Total	mg/L	-	0.00478	-	-	-	-
Vanadium - Total	mg/L	-	0.00061	-	-	-	-
Zinc - Total	mg/L	0.50	< 0.0030	-	-	-	-
Aluminum - Dissolved	mg/L	-	0.0081	-	-	-	-
Arsenic - Dissolved	mg/L	-	< 0.00010	-	-	-	-
Cadmium - Dissolved	mg/L	-	< 0.0000050	-	-	-	-
Calcium - Dissolved	mg/L	-	16.5	-	-	-	-
Copper - Dissolved	mg/L	-	0.00223	-	-	-	-
Iron - Dissolved	mg/L	-	< 0.010	-	-	-	-
Lead - Dissolved	mg/L	-	< 0.000050	-	-	-	-
Magnesium - Dissolved	mg/L	-	11.1	-	-	-	-
Manganese - Dissolved	mg/L	-	0.00037	-	-	-	-
Mercury - Dissolved	mg/L	-	< 0.0000050	-	-	-	-
Molybdenum - Dissolved	mg/L	-	0.00112	-	-	-	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-MRY-09

Nickel - Dissolved	mg/L	-	< 0.00050	-	-	-	-
Potassium - Dissolved	mg/L	-	2.33	-	-	-	-
Selenium - Dissolved	mg/L	-	0.000105	-	-	-	-
Sodium - Dissolved	mg/L	-	0.696	-	-	-	-
Thallium - Dissolved	mg/L	-	0.000013	-	-	-	-
Uranium - Dissolved	mg/L	-	0.00451	-	-	-	-
Zinc - Dissolved	mg/L	-	< 0.0010	-	-	-	-
Visible Sheen	None	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-
Phenols	ug/L	-	< 1.0	-	-	-	-
Phosphorus, Nutrient	mg/L	-	0.0032	-	-	-	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-MRY-13A

			Location Name	MS-MRY-13A
			Field Sample ID	MS-MRY-13A_2024-09-25
			ALS Laboratory Work Order	BF2400356
			Sample Date	2024-09-25
			Sample Type	P
Analyte		Units	Criteria	
pH, Lab	pH units	6.0-9.5		7.92
Total Suspended Solids	mg/L	15		< 1.0
Total Dissolved Solids	mg/L	-		421
Turbidity	NTU	-		0.26
Visible Sheen	-	No Visible Sheen		No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-MRY-13B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-MRY-13B	MS-MRY-13B	MS-MRY-13B	MS-MRY-13B	MS-MRY-13B	MS-MRY-13B
			MS-MRY-13B_2024-09-01	MS-MRY-13B_2024-09-08	MS-MRY-13B_2024-09-19	QD-BF1_2024-09-19	MS-MRY-13B_2024-09-25	QD-BF1_2024-09-25
			BF2400305	BF2400324	BF2400348	BF2400348	BF2400356	BF2400356
			2024-09-01	2024-09-08	2024-09-19	2024-09-19	2024-09-25	2024-09-25
			P	P	P	FB	P	FB
Analyte	Units	Criteria						
Conductivity	umhos/cm	-	1060	-	-	-	-	-
pH, Lab	pH units	6.0-9.5	7.93	8.12	8.02	6.21	7.97	6.53
Total Suspended Solids	mg/L	15	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	748	704	738	< 18	357	< 19
Turbidity	NTU	-	0.10	< 0.10	0.22	< 0.10	0.24	< 0.10
Alkalinity, Total	mg/L	-	202	-	-	-	-	-
Dissolved Organic Carbon	mg/L	-	19.8	-	-	-	-	-
Total Organic Carbon	mg/L	-	7.23	-	-	-	-	-
Aluminum - Total	mg/L	-	< 0.0300	-	-	-	-	-
Antimony - Total	mg/L	-	< 0.00100	-	-	-	-	-
Arsenic - Total	mg/L	0.50	< 0.00100	-	-	-	-	-
Barium - Total	mg/L	-	0.0554	-	-	-	-	-
Cadmium - Total	mg/L	-	< 0.0000500	-	-	-	-	-
Calcium - Total	mg/L	-	125	-	-	-	-	-
Chromium - Total	mg/L	-	< 0.00500	-	-	-	-	-
Cobalt - Total	mg/L	-	< 0.00100	-	-	-	-	-
Copper - Total	mg/L	0.30	< 0.00500	-	-	-	-	-
Iron - Total	mg/L	-	< 0.100	-	-	-	-	-
Lead - Total	mg/L	0.20	< 0.000500	-	-	-	-	-
Lithium - Total	mg/L	-	0.143	-	-	-	-	-
Magnesium - Total	mg/L	-	52.0	-	-	-	-	-
Manganese - Total	mg/L	-	0.00166	-	-	-	-	-
Mercury - Total	mg/L	-	< 0.0000050	-	-	-	-	-
Molybdenum - Total	mg/L	-	0.000601	-	-	-	-	-
Nickel - Total	mg/L	0.50	0.0134	-	-	-	-	-
Phosphorus, Total	mg/L	-	< 0.500	-	-	-	-	-
Potassium - Total	mg/L	-	8.10	-	-	-	-	-
Selenium - Total	mg/L	-	< 0.000500	-	-	-	-	-
Sodium - Total	mg/L	-	32.8	-	-	-	-	-
Strontium - Total	mg/L	-	0.215	-	-	-	-	-
Thallium - Total	mg/L	-	< 0.000100	-	-	-	-	-
Tin - Total	mg/L	-	< 0.00100	-	-	-	-	-
Titanium - Total	mg/L	-	< 0.00300	-	-	-	-	-
Uranium - Total	mg/L	-	0.0148	-	-	-	-	-
Vanadium - Total	mg/L	-	< 0.00500	-	-	-	-	-
Zinc - Total	mg/L	0.50	< 0.0300	-	-	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	-	-
Visible Sheen	None	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	-
Phenols	ug/L	-	< 1.0	-	-	-	-	-
F1 (C6-C10)	ug/L	-	< 25	-	-	-	-	-
F2 (C10-C16)	ug/L	-	< 100	-	-	-	-	-
F3 (C16-C34)	ug/L	-	< 250	-	-	-	-	-
F4 (C34-C50)	ug/L	-	< 250	-	-	-	-	-
Total Petroleum Hydrocarbons (C6-C50)	ug/L	-	< 370	-	-	-	-	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-A

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-A	MS-C-A	MS-C-A	MS-C-A	MS-C-A	MS-C-A
			MS-C-A_2024-09-01	QD-BT7_2024-09-01	MS-C-A_2024-09-09	MS-C-A_2024-09-19	QD-BT1_2024-09-19	MS-C-A_2024-09-22
			BF2400305	BF2400305	BF2400324	BF2400348	BF2400348	BF2400351
			2024-09-01	2024-09-01	2024-09-09	2024-09-19	2024-09-19	2024-09-22
			P	TB	P	P	TB	P
Analyte	Units	Criteria						
Conductivity	umhos/cm	-	557	< 1.0	-	-	-	264
pH, Lab	pH units	6.0-9.5	7.82	7.39	7.84	7.90	6.28	7.84
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	5.3	< 1.0	< 1.0	185
Total Dissolved Solids	mg/L	-	331	< 18	327	300	21	219
Turbidity	NTU	-	0.87	< 0.10	7.10	1.95	< 0.10	312
Ammonia, Total (as N)	mg/L	-	0.0429	< 0.0050	-	-	-	0.120
Nitrate	mg/L	-	6.79	< 0.020	-	-	-	3.38
Oil and Grease, Total	mg/L	-	< 5.0	< 5.0	-	-	-	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	No Visible Sheen	-	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-B	MS-C-B	MS-C-B	MS-C-B	MS-C-B
			MS-C-B_2024-09-01	MS-C-B_2024-09-09	QD-CC1_2024-09-09	MS-C-B_2024-09-19	MS-C-B_2024-09-22
			BF2400305	BF2400324	BF2400324	BF2400348	BF2400351
			2024-09-01	2024-09-09	2024-09-09	2024-09-19	2024-09-22
			P	P	FD	P	P
Analyte	Units	Criteria					
Conductivity	umhos/cm	-	571	-	-	-	270
pH, Lab	pH units	6.0-9.5	7.71	7.80	7.76	7.82	7.80
Total Suspended Solids	mg/L	30	< 1.0	4.8	4.8	< 1.0	171
Total Dissolved Solids	mg/L	-	352	320	321	317	238
Turbidity	NTU	-	1.04	8.84	8.37	2.67	301
Ammonia, Total (as N)	mg/L	-	0.0434	-	-	-	0.109
Nitrate	mg/L	-	6.92	-	-	-	3.39
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	-	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-C

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-C	MS-C-C	MS-C-C	MS-C-C
			MS-C-C_2024-09-01	MS-C-C_2024-09-09	MS-C-C_2024-09-19	MS-C-C_2024-09-22
			BF2400305	BF2400324	BF2400348	BF2400351
			2024-09-01	2024-09-09	2024-09-19	2024-09-22
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm	-	818	-	-	634
pH, Lab	pH units	6.0-9.5	8.03	7.95	8.10	7.88
Total Suspended Solids	mg/L	30	6.4	13.1	1.2	73.1
Total Dissolved Solids	mg/L	-	504	454	529	425
Turbidity	NTU	-	22.2	41.9	6.10	219
Ammonia, Total (as N)	mg/L	-	0.0081	-	-	0.260
Nitrate	mg/L	-	5.00	-	-	3.87
Oil and Grease, Total	mg/L	-	< 5.0	-	-	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-D

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-D	MS-C-D	MS-C-D	MS-C-D
			MS-C-D_2024-09-01	MS-C-D_2024-09-08	MS-C-D_2024-09-19	MS-C-D_2024-09-22
			BF2400305	BF2400324	BF2400348	BF2400351
			2024-09-01	2024-09-08	2024-09-19	2024-09-22
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm	-	779	-	-	607
pH, Lab	pH units	6.0-9.5	8.23	8.19	8.23	7.88
Total Suspended Solids	mg/L	30	< 1.0	4.7	2.5	26.7
Total Dissolved Solids	mg/L	-	445	467	471	374
Turbidity	NTU	-	3.19	13.3	11.2	178
Ammonia, Total (as N)	mg/L	-	0.0372	-	-	0.325
Nitrate	mg/L	-	3.54	-	-	3.46
Oil and Grease, Total	mg/L	-	< 5.0	-	-	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-E

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-E	MS-C-E	MS-C-E	MS-C-E
			MS-C-E_2024-09-01	MS-C-E_2024-09-08	MS-C-E_2024-09-19	MS-C-E_2024-09-22
			BF2400305	BF2400324	BF2400348	BF2400351
			2024-09-01	2024-09-08	2024-09-19	2024-09-22
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm	-	865	-	-	539
pH, Lab	pH units	6.0-9.5	7.98	8.02	8.03	7.80
Total Suspended Solids	mg/L	30	3.3	< 1.0	< 1.0	575
Total Dissolved Solids	mg/L	-	545	530	567	388
Turbidity	NTU	-	1.48	2.98	6.24	1220
Ammonia, Total (as N)	mg/L	-	0.0159	-	-	0.257
Nitrate	mg/L	-	4.82	-	-	4.03
Oil and Grease, Total	mg/L	-	< 5.0	-	-	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-F

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-F	MS-C-F	MS-C-F	MS-C-F
			MS-C-F_2024-09-01	MS-C-F_2024-09-08	MS-C-F_2024-09-19	MS-C-F_2024-09-22
			BF2400305	BF2400324	BF2400348	BF2400351
			2024-09-01	2024-09-08	2024-09-19	2024-09-22
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm	-	656	-	-	299
pH, Lab	pH units	6.0-9.5	7.98	7.92	7.92	7.84
Total Suspended Solids	mg/L	30	6.2	144	47.2	214
Total Dissolved Solids	mg/L	-	386	370	374	234
Turbidity	NTU	-	9.85	162	78.2	339
Ammonia, Total (as N)	mg/L	-	0.353	-	-	0.220
Nitrate	mg/L	-	8.08	-	-	4.29
Oil and Grease, Total	mg/L	-	< 5.0	-	-	< 5.0
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-G

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-G	MS-C-G	MS-C-G	MS-C-G
			MS-C-G_2024-09-01	MS-C-G_2024-09-08	MS-C-G_2024-09-19	MS-C-G_2024-09-25
			BF2400305	BF2400324	BF2400348	BF2400356
			2024-09-01	2024-09-08	2024-09-19	2024-09-25
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm	-	266	-	-	-
pH, Lab	pH units	6.0-9.5	7.76	7.97	7.69	7.82
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	< 1.2	< 1.0
Total Dissolved Solids	mg/L	-	143	134	141	113
Turbidity	NTU	-	< 0.10	0.14	0.17	0.51
Ammonia, Total (as N)	mg/L	-	1.35	-	0.908	-
Nitrate	mg/L	-	7.90	-	5.81	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MS-C-H

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MS-C-H	MS-C-H	MS-C-H	MS-C-H
			MS-C-H_2024-09-01	MS-C-H_2024-09-08	MS-C-H_2024-09-19	MS-C-H_2024-09-25
			BF2400305	BF2400324	BF2400348	BF2400356
			2024-09-01	2024-09-08	2024-09-19	2024-09-25
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm	-	277	-	-	-
pH, Lab	pH units	6.0-9.5	8.11	8.13	8.18	7.95
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	139	127	151	130
Turbidity	NTU	-	0.30	0.26	0.32	0.28
Ammonia, Total (as N)	mg/L	-	0.0186	-	0.0120	-
Nitrate	mg/L	-	1.00	-	1.54	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MQ-C-A

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MQ-C-A	MQ-C-A	MQ-C-A	MQ-C-A
			MQ-C-A_2024-09-01	MQ-C-A_2024-09-08	MQ-C-A_2024-09-19	MQ-C-A_2024-09-25
			BF2400305	BF2400324	BF2400348	BF2400356
			2024-09-01	2024-09-08	2024-09-19	2024-09-25
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm	-	316	-	-	-
pH, Lab	pH units	6.0-9.5	8.07	8.10	8.15	7.92
Total Suspended Solids	mg/L	30	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L	-	167	186	180	133
Turbidity	NTU	-	0.12	0.18	0.14	0.38
Ammonia, Total (as N)	mg/L	-	< 0.0050	-	-	-
Nitrate	mg/L	-	< 0.020	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	None	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MQ-C-B

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MQ-C-B	MQ-C-B	MQ-C-B	MQ-C-B
			MQ-C-B_2024-09-01	MQ-C-B_2024-09-08	MQ-C-B_2024-09-19	MQ-C-B_2024-09-25
			BF2400305	BF2400324	BF2400348	BF2400356
			2024-09-01	2024-09-08	2024-09-19	2024-09-25
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm	-	295	-	-	-
pH, Lab	pH units	6.0-9.5	7.99	8.05	8.16	7.92
Total Suspended Solids	mg/L	30	< 1.0	27.2	< 1.0	2.0
Total Dissolved Solids	mg/L	-	148	177	178	146
Turbidity	NTU	-	0.46	42.7	0.74	9.78
Ammonia, Total (as N)	mg/L	-	0.0079	-	-	-
Nitrate	mg/L	-	0.040	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank



Table 2 : Water Quality Results for Water Licence
Monitoring Location - MQ-C-D

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			MQ-C-D	MQ-C-D	MQ-C-D	MQ-C-D
			MQ-C-D_2024-09-01	MQ-C-D_2024-09-08	MQ-C-D_2024-09-19	MQ-C-D_2024-09-25
			BF2400305	BF2400324	BF2400348	BF2400356
			2024-09-01	2024-09-08	2024-09-19	2024-09-25
			P	P	P	P
Analyte	Units	Criteria				
Conductivity	umhos/cm	-	317	-	-	-
pH, Lab	pH units	6.0-9.5	8.00	8.13	8.16	7.88
Total Suspended Solids	mg/L	30	2.7	< 1.0	1.0	6.3
Total Dissolved Solids	mg/L	-	156	174	195	166
Turbidity	NTU	-	2.48	3.21	3.00	30.5
Ammonia, Total (as N)	mg/L	-	0.0254	-	-	-
Nitrate	mg/L	-	0.460	-	-	-
Oil and Grease, Total	mg/L	-	< 5.0	-	-	-
Visible Sheen	-	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen	No Visible Sheen
Mean Mortality to Daphnia magna	-	Not Acutly Toxic	Not Acutly Toxic	-	-	-
Mean Mortality to Rainbow Trout	-	Not Acutly Toxic	Not Acutly Toxic	-	-	-

Notes:
Highlight indicate result exceeded applicable criteria.
Half value used in monthly average when value is less than detection limit.
pH criteria is a range;6.0-9.5.
Sample Type:
P-Permitted
FD-Field Duplicate
FB-Field Blank
TB-Trip Blank

Table 3.1: Flow and Volume Measurements - Part I Item 11 - September 2024

DATE	Camp Lake Freshwater for Domestic Use - Daily Water MS-MRY-1 (m³) ¹	Camp Lake Freshwater for Industrial Use - Daily Water MS-MRY-1 (m³) ¹	Treated Sewage Effluent from MS-01 to Discharge Location #1 (m³)	Treated Sewage Effluent from MS-01B to Discharge Location #1 (m³)	Sewage Sludge Removed from Mine Site WWTPs to Incinerator or Disposal Offsite by Backhaul (m³)	Sewage Sludge/Off- Spec Effluent Removed from Mine Site WWTPs to PWSP at Mine Site (m³)	Sewage Sludge Removed from Lift Stations to PWSP at Mine Site (m³)	Km 32 Lake Milne Port Camp Daily Water Use for Domestic Purposes MP- MRY-3 (m³)	Km 32 Lake Milne Port Camp Daily Water Use for Industrial Purposes MP- MRY-3 (m³)	Treated Sewage Effluent from MP-01 to Milne Inlet (m³)	Treated Sewage Effluent from MP-01B to Milne Inlet (m³)	Sewage Sludge Removed from Milne Port WWTPs to Incinerator or Disposal Offsite by Backhaul (m³)	Sewage Sludge Removed from Lift Stations to PWSP at Milne Port (m³)	Sludge Removed from Milne Port WWTPs/WTPs to PWSP at Milne Port (m³)
1-Sep-24	129.9	0.0	25.0	122.5	1.1	0.0	10.0	64.0	0.0	29.0	42.6	0.1	0.0	0.0
2-Sep-24	127.4	0.0	26.0	118.2	0.0	0.0	10.0	57.6	0.0	25.0	37.5	0.1	0.0	0.0
3-Sep-24	154.0	0.0	25.0	104.7	1.6	0.0	0.0	64.3	2.0	24.0	39.0	0.1	0.0	0.0
4-Sep-24	145.8	2.4	15.0	131.6	1.3	0.0	0.0	81.5	0.0	26.0	44.1	0.1	0.0	0.0
5-Sep-24	129.5	10.3	3.0	121.7	1.2	0.0	0.0	65.3	0.0	26.0	39.8	0.1	0.0	0.0
6-Sep-24	140.0	1.1	17.0	112.2	1.2	0.0	0.0	64.1	0.0	24.0	45.5	0.1	0.0	0.0
7-Sep-24	116.9	14.2	28.0	115.2	1.4	0.0	0.0	59.5	0.0	24.0	53.0	0.0	0.0	0.0
8-Sep-24	118.1	6.7	28.0	119.9	1.7	0.0	0.0	91.7	0.0	24.0	37.2	0.2	0.0	0.0
9-Sep-24	122.2	18.9	25.0	114.6	0.6	0.0	0.0	73.0	0.0	24.0	41.1	0.1	0.0	0.0
10-Sep-24	129.2	17.7	21.0	118.0	1.0	0.0	0.0	70.3	0.0	24.0	38.3	0.1	0.0	0.0
11-Sep-24	123.0	26.7	21.0	126.4	1.7	0.0	0.0	91.2	0.0	24.0	46.9	0.0	0.0	0.0
12-Sep-24	121.3	5.8	22.0	133.8	0.4	0.0	0.0	70.7	0.0	35.0	36.8	0.1	0.0	0.0
13-Sep-24	133.9	19.4	21.0	137.4	0.4	10.0	10.0	73.3	0.0	32.0	43.5	0.0	0.0	0.0
14-Sep-24	128.0	36.2	21.0	126.6	0.0	24.0	40.0	66.2	0.0	24.0	41.3	0.1	0.0	0.0
15-Sep-24	138.0	0.0	21.0	65.5	0.0	0.0	0.0	71.9	0.0	24.0	41.2	0.1	0.0	0.0
16-Sep-24	125.2	12.4	21.0	113.7	0.0	0.0	0.0	66.8	0.0	28.0	39.4	0.1	0.0	0.0
17-Sep-24	132.0	12.8	22.0	118.7	0.7	0.0	0.0	63.9	0.0	25.0	38.8	0.1	0.0	6.0
18-Sep-24	141.3	8.6	17.0	129.8	0.4	6.0	0.0	63.3	0.0	24.0	38.4	0.0	0.0	0.0
19-Sep-24	151.5	11.1	12.0	144.4	0.4	0.0	0.0	89.9	0.0	24.0	44.2	0.0	0.0	0.0
20-Sep-24	128.5	14.9	21.0	131.4	1.0	0.0	0.0	47.8	0.0	24.0	41.7	0.1	0.0	0.0
21-Sep-24	142.5	16.6	25.0	120.6	0.0	10.0	0.0	77.2	0.0	24.0	44.5	0.0	0.0	0.0
22-Sep-24	138.6	13.0	25.0	107.2	0.0	20.0	10.0	76.5	0.0	24.0	46.2	0.0	0.0	11.0
23-Sep-24	113.3	27.2	25.0	68.9	0.0	0.0	0.0	68.7	0.0	23.0	32.9	0.0	0.0	0.0
24-Sep-24	127.2	1.0	25.0	96.6	0.5	0.0	0.0	77.9	0.0	24.0	40.4	0.1	0.0	0.0
25-Sep-24	118.5	25.7	25.0	119.3	0.0	0.0	0.0	101.9	0.0	24.0	37.2	0.0	0.0	0.0
26-Sep-24	143.9	15.5	24.0	126.1	0.0	0.0	0.0	62.4	0.0	24.0	44.5	0.0	0.0	0.0
27-Sep-24	120.2	0.7	23.0	121.7	0.0	0.0	0.0	68.2	0.0	24.0	49.5	0.1	0.0	0.0
28-Sep-24	118.6	21.1	23.0	111.6	0.9	0.0	0.0	71.0	0.0	24.0	44.4	0.1	0.0	0.0
29-Sep-24	112.0	22.9	24.0	118.3	0.0	15.0	0.0	63.8	0.0	23.0	43.7	0.1	0.0	9.0
30-Sep-24	105.0	31.5	20.0	105.8	0.0	0.0	0.0	89.2	0.0	23.0	27.7	0.0	0.0	0.0
Total	3,875.6	394.5	651.0	3,502.4	17.4	85.0	80.0	2,153.0	2.0	751.0	1,241.4	1.9	0.0	26.0

Notes:
WWTP - Waste Water Treatment Plant
PWSP - Polishing Waste Stabilization Pond
¹ Tracking may be influenced by reported data to the Pi data system; variances between reported domestic and industrial values have potential to occur. However, total daily withdrawal is not influenced by the tracking methodology.

Table 3.1: Flow and Volume Measurements - Part I Item 11 - September 2024

DATE	Water Use for Dust Suppression from Authorized Sources (m³)	Effluent Discharge from Mine Site Crusher Pad Sedimentation Pond (MS-06) (m³)	Effluent Discharge from Mine Site Run of Mine Ore Stockpile Pond Stormwater (MS-07) (m³)	Effluent Discharge from Mine Site Waste Rock Stockpile Pond (MS-08) (m³)	Effluent from KM105 Surface Water Management Pond (m³) ¹	Effluent Discharge from Milne Port Ore Stockpile Sedimentation Pond (East) to Milne Inlet (MP-05) (m³)	Effluent Discharge from Milne Port Ore Stockpile Sedimentation Pond (West) to Milne Inlet (MP-06) (m³)	Effluent Discharge from Milne Port Bulk Fuel Tank Farm Facility to Milne Inlet (MP-03) (m³)	Effluent Discharge from Milne Port Landfarm Facility to Tundra (MP-04) (m³)
1-Sep-24	545.0	0.0	0.0	0.0	3,115.9	0.0	0.0	0.0	0.0
2-Sep-24	212.0	0.0	0.0	0.0	2,728.8	0.0	1941.0	0.0	0.0
3-Sep-24	0.0	34.7	98.1	0.0	2,645.7	0.0	20.1	0.0	0.0
4-Sep-24	0.0	237.9	71.7	0.0	3,426.8	0.0	20.1	0.0	0.0
5-Sep-24	0.0	229.4	0.0	0.0	2,955.4	0.0	494.3	0.0	0.0
6-Sep-24	0.0	223.9	0.0	0.0	2,477.8	0.0	494.3	0.0	0.0
7-Sep-24	0.0	251.3	0.0	0.0	2,724.2	0.0	494.3	0.0	0.0
8-Sep-24	0.0	290.7	0.0	0.0	3,839.5	0.0	494.3	0.0	0.0
9-Sep-24	0.0	0.0	0.0	0.0	6,503.4	0.0	0.0	0.0	0.0
10-Sep-24	30.3	0.0	0.0	0.0	8,026.5	0.0	1083.6	0.0	0.0
11-Sep-24	0.0	0.0	0.0	0.0	6,285.7	0.0	0.0	0.0	0.0
12-Sep-24	0.0	0.0	0.0	18.8	5,105.6	0.0	0.0	0.0	0.0
13-Sep-24	0.0	0.0	0.0	1,170.2	4,843.6	0.0	0.0	0.0	0.0
14-Sep-24	0.0	7.3	0.0	1,705.0	4,779.6	0.0	0.0	0.0	0.0
15-Sep-24	0.0	0.0	0.0	2,962.0	4,992.9	0.0	0.0	0.0	0.0
16-Sep-24	0.0	0.0	0.0	3,448.0	4,245.2	0.0	0.0	0.0	243.2
17-Sep-24	0.0	0.0	0.0	3,301.0	3,733.9	0.0	0.0	0.0	221.8
18-Sep-24	212.0	0.0	0.0	2,678.0	3,343.5	0.0	0.0	248.9	357.8
19-Sep-24	0.0	0.0	0.0	2,624.0	2,885.9	0.0	398.2	331.9	0.0
20-Sep-24	0.0	0.0	0.0	0.0	4,221.8	0.0	0.0	44.2	0.0
21-Sep-24	0.0	0.0	0.0	2,170.0	25,527.7	0.0	1001.1	67.2	0.0
22-Sep-24	0.0	0.0	0.0	3,857.0	26,756.1	1439.0	0.0	501.5	0.0
23-Sep-24	30.3	0.0	0.0	3,244.0	20,132.6	0.0	283.1	0.0	0.0
24-Sep-24	30.3	0.0	0.0	0.0	15,301.3	0.0	559.9	147.2	0.0
25-Sep-24	0.0	65.0	0.0	0.0	11,433.5	0.0	697.4	0.0	0.0
26-Sep-24	0.0	64.9	0.0	517.0	9,062.3	0.0	81.3	7.7	0.0
27-Sep-24	0.0	64.9	0.0	2,745.0	9,599.2	0.0	0.0	0.0	0.0
28-Sep-24	0.0	64.9	0.0	3,674.0	9,052.8	0.0	330.5	114.4	0.0
29-Sep-24	0.0	91.6	0.0	5,218.0	9,752.6	0.0	740.4	0.0	0.0
30-Sep-24	0.0	146.8	0.0	4,504.4	11,005.3	0.0	231.2	0.0	0.0
Total	1,059.8	1,773.5	169.9	43,836.4	230,505.0	1,439.0	9,364.9	1,462.9	822.8

Notes:

WWTP - Waste Water Treatment Plant

PWSP - Polishing Waste Stabilization Pond

¹ Tracking may be influenced by reported data to the Pi data system; variances between reported domestic and industrial values have potential to occur. However, total daily withdrawal is not influenced by the tracking methodology.