

September 30, 2023

Manager of Licensing
Nunavut Water Board
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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
August 2023**

The following is the monthly report for August 2023 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 required under the Licence and the details concerning which water quality samples were collected along with sample dates and laboratory identification numbers, as appropriate. 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 August 2023.

Monitoring Program Results

Water Sampling and Analysis Results

Table 2 provides the analytical results related to the Sewage Treatment Plant (STP) facilities and SNP sampling requirements. There were no exceedances of applicable water quality criteria observed at STP or SNP monitoring stations in August 2023.

As a result of the ongoing seepage at KM105 Surface Water Management Pond, samples continue to be collected at water quality monitoring station KM105-SWMP-SEEP-02 when there is flowing water present and a representative sample can be collected. Analytical results are provided in Table 2, while estimated discharge volumes are provided in Table 3.1.

Analytical results of the August 2, 2023 sample collected at KM105 Pond Stormwater (KM105-SWMP-SEEP-02) indicate that TSS was 376 mg/L. Subsequent samples collected on August 15th and August 29th, showed steady improvement but remained above the water licence criteria of 30 mg/L for TSS concentrations in a grab sample at 173 and 54.3 mg/L respectively.

Mitigation measures continued upstream and downstream of KM105 throughout August and September, including temporary check dam installations and ditch regrading, and will be reported on fully in the September report.

An aggregate pad with liner was constructed in preparation for geotube installation in August. Geotechnical drilling started on August 31 for the KM 105 Pond geotechnical investigation with the purpose of collecting permeability data needed in order to design a remediation strategy.

The development and implementation of long term remedial measures at the KM105 stormwater pond is ongoing.

Flow and Volume Measurements

Table 3.1 provides a breakdown of volume measurements for August 2023 as required by Part I, Item 9 of the Licence. There were no exceedances of the source specific daily volume withdrawal limits in August 2023.

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

Prepared by:



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Reviewed by:



Katie Babin
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Attachments

Attachments – Table 1, Table 2, Table 3

Table 1.1: Monitoring Program Water Sampling Summary

Location	Location Description	Sample Date	Sample Type	Lab Sample ID
MP-01	Sewage Treatment Facility	2023-08-02	P	WT2324094-001
MP-01B	Sewage Treatment Facility	2023-08-02	P	WT2323831-001
MP-05	Ore Stockpile Sedimentation Pond (East)	2023-08-11	P	YL2301039-001
MP-05	Ore Stockpile Sedimentation Pond (East)	2023-08-11	TB	YL2301039-002
MP-06	Ore Stockpile Sedimentation Pond (West)	2023-08-11	P	YL2301040-001
MP-C-B	Downstream of Construction Area	2023-08-22	P	WT2326435-004
MP-C-B	Downstream of Construction Area	2023-08-27	P	BF2300244-004
MP-C-K	Downstream of Construction Area	2023-08-01	P	BF2300196-004
MP-C-K	Downstream of Construction Area	2023-08-01	TB	BF2300196-005
MP-C-K	Downstream of Construction Area	2023-08-07	P	BF2300213-002
MP-C-K	Downstream of Construction Area	2023-08-13	P	BF2300219-004
MP-C-K	Downstream of Construction Area	2023-08-22	FD	WT2326435-006
MP-C-K	Downstream of Construction Area	2023-08-22	P	WT2326435-005
MP-C-K	Downstream of Construction Area	2023-08-01	TB	BF2300196-005
MP-C-H	Downstream of Construction Area	2023-08-01	P	BF2300196-006
MP-C-H	Downstream of Construction Area	2023-08-07	P	BF2300213-001
MP-C-H	Downstream of Construction Area	2023-08-13	P	BF2300219-005
MP-C-H	Downstream of Construction Area	2023-08-22	P	WT2326435-003
MP-C-H	Downstream of Construction Area	2023-08-27	FD	BF2300244-001
MP-C-H	Downstream of Construction Area	2023-08-27	P	BF2300244-002
MP-C-J	Downstream of Construction Area	2023-08-01	P	BF2300196-003
MP-C-J	Downstream of Construction Area	2023-08-07	FD	BF2300213-004
MP-C-J	Downstream of Construction Area	2023-08-07	P	BF2300213-003
MP-C-J	Downstream of Construction Area	2023-08-13	FD	BF2300219-003
MP-C-J	Downstream of Construction Area	2023-08-13	P	BF2300219-002
MP-C-J	Downstream of Construction Area	2023-08-22	P	WT2326435-007
MP-C-J	Downstream of Construction Area	2023-08-27	P	BF2300244-006
MP-Q1-01	Downstream of Q1 Quarry	2023-08-01	P	BF2300196-001
MP-Q1-01	Downstream of Q1 Quarry	2023-08-22	P	WT2326435-001
MP-Q1-02	Downstream of Q1 Quarry	2023-08-01	P	BF2300196-002
MP-Q1-02	Downstream of Q1 Quarry	2023-08-07	P	BF2300213-005
MP-Q1-02	Downstream of Q1 Quarry	2023-08-13	P	BF2300219-001
MP-Q1-02	Downstream of Q1 Quarry	2023-08-22	P	WT2326435-002
MP-Q1-02	Downstream of Q1 Quarry	2023-08-27	P	BF2300244-003
MS-01B	Sewage Treatment Facility	2023-08-09	P	WT2324649-001
MS-MRY-06	Exploration Camp Bulk Fuel Storage Facility	2023-08-08	P	BF2300211-001
MS-06	Ore Stockpile Pond Stormwater	2023-08-22	P	BF2300233-001
MS-08	Mine Waste Rock Stockpile Pond	2023-08-01	P	BF2300187-001
MS-MRY-09	Deposit 1 Surface Water Drainage	2023-08-02	P	BF2300190-013
MS-MRY-09	Deposit 1 Surface Water Drainage	2023-08-07	P	BF2300214-002
MS-MRY-09	Deposit 1 Surface Water Drainage	2023-08-17	P	BF2300227-005
MS-MRY-09	Deposit 1 Surface Water Drainage	2023-08-30	P	BF2300251-003
MS-MRY-13A	Downstream Non-Hazardous Landfill	2023-08-20	P	BF2300230-001
MS-MRY-13A	Downstream Non-Hazardous Landfill	2023-08-30	P	BF2300251-011
MS-MRY-13B	Downstream Non-Hazardous Landfill	2023-08-02	P	BF2300190-014
MS-MRY-13B	Downstream Non-Hazardous Landfill	2023-08-08	P	BF2300214-005
MS-MRY-13B	Downstream Non-Hazardous Landfill	2023-08-17	P	BF2300227-006
MS-MRY-13B	Downstream Non-Hazardous Landfill	2023-08-22	P	BF2300234-012
MS-MRY-13B	Downstream Non-Hazardous Landfill	2023-08-30	FB	BF2300251-010
MS-MRY-13B	Downstream Non-Hazardous Landfill	2023-08-30	P	BF2300251-009
MS-C-A	Downstream of Construction and Borrow Areas	2023-08-01	P	BF2300190-009
MS-C-A	Downstream of Construction and Borrow Areas	2023-08-08	P	BF2300214-009
MS-C-A	Downstream of Construction and Borrow Areas	2023-08-08	FD	BF2300214-010
MS-C-A	Downstream of Construction and Borrow Areas	2023-08-17	P	BF2300227-010
MS-C-A	Downstream of Construction and Borrow Areas	2023-08-22	P	BF2300234-006
MS-C-A	Downstream of Construction and Borrow Areas	2023-08-30	P	BF2300251-002
MS-C-B	Downstream of Construction and Borrow Areas	2023-08-01	P	BF2300190-010
MS-C-B	Downstream of Construction and Borrow Areas	2023-08-08	P	BF2300214-011
MS-C-B	Downstream of Construction and Borrow Areas	2023-08-17	P	BF2300227-011
MS-C-B	Downstream of Construction and Borrow Areas	2023-08-22	P	BF2300234-007
MS-C-B	Downstream of Construction and Borrow Areas	2023-08-30	P	BF2300251-004
MS-C-C	Downstream of Construction and Borrow Areas	2023-08-01	P	BF2300190-007
MS-C-C	Downstream of Construction and Borrow Areas	2023-08-08	P	BF2300214-008
MS-C-C	Downstream of Construction and Borrow Areas	2023-08-17	P	BF2300227-009
MS-C-C	Downstream of Construction and Borrow Areas	2023-08-22	P	BF2300234-011
MS-C-C	Downstream of Construction and Borrow Areas	2023-08-30	P	BF2300251-008
MS-C-D	Downstream of Construction and Borrow Areas	2023-08-01	P	BF2300190-006
MS-C-D	Downstream of Construction and Borrow Areas	2023-08-08	P	BF2300214-007
MS-C-D	Downstream of Construction and Borrow Areas	2023-08-17	P	BF2300227-008
MS-C-D	Downstream of Construction and Borrow Areas	2023-08-22	P	BF2300234-010
MS-C-D	Downstream of Construction and Borrow Areas	2023-08-30	FD	BF2300251-007
MS-C-D	Downstream of Construction and Borrow Areas	2023-08-30	P	BF2300251-006

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

MS-C-E	Downstream of Construction and Borrow Areas	2023-08-01	P	BF2300190-005
MS-C-E	Downstream of Construction and Borrow Areas	2023-08-01	FB	BF2300190-008
MS-C-E	Downstream of Construction and Borrow Areas	2023-08-08	P	BF2300214-006
MS-C-E	Downstream of Construction and Borrow Areas	2023-08-17	P	BF2300227-007
MS-C-E	Downstream of Construction and Borrow Areas	2023-08-22	P	BF2300234-009
MS-C-E	Downstream of Construction and Borrow Areas	2023-08-30	P	BF2300251-005
MS-C-F	Downstream of Construction and Borrow Areas	2023-08-01	P	BF2300190-011
MS-C-F	Downstream of Construction and Borrow Areas	2023-08-08	P	BF2300214-012
MS-C-F	Downstream of Construction and Borrow Areas	2023-08-17	P	BF2300227-012
MS-C-F	Downstream of Construction and Borrow Areas	2023-08-22	P	BF2300234-008
MS-C-F	Downstream of Construction and Borrow Areas	2023-08-30	P	BF2300251-001
MS-C-G	Downstream of Construction and Borrow Areas	2023-08-02	P	BF2300190-015
MS-C-G	Downstream of Construction and Borrow Areas	2023-08-08	P	BF2300214-013
MS-C-G	Downstream of Construction and Borrow Areas	2023-08-17	P	BF2300227-001
MS-C-G	Downstream of Construction and Borrow Areas	2023-08-22	P	BF2300234-013
MS-C-G	Downstream of Construction and Borrow Areas	2023-08-31	P	BF2300251-012
MS-C-H	Downstream of Construction and Borrow Areas	2023-08-02	P	BF2300190-012
MS-C-H	Downstream of Construction and Borrow Areas	2023-08-08	P	BF2300214-014
MS-C-H	Downstream of Construction and Borrow Areas	2023-08-08	TB	BF2300214-015
MS-C-H	Downstream of Construction and Borrow Areas	2023-08-17	P	BF2300227-003
MS-C-H	Downstream of Construction and Borrow Areas	2023-08-22	P	BF2300234-014
MS-C-H	Downstream of Construction and Borrow Areas	2023-08-31	P	BF2300251-013
MQ-C-A	Downstream of QMR2 Quarry	2023-08-01	P	BF2300190-001
MQ-C-A	Downstream of QMR2 Quarry	2023-08-07	P	BF2300214-003
MQ-C-A	Downstream of QMR2 Quarry	2023-08-17	P	BF2300227-013
MQ-C-A	Downstream of QMR2 Quarry	2023-08-22	FD	BF2300234-002
MQ-C-A	Downstream of QMR2 Quarry	2023-08-22	P	BF2300234-001
MQ-C-A	Downstream of QMR2 Quarry	2023-08-31	P	BF2300251-014
MQ-C-B	Downstream of QMR2 Quarry	2023-08-01	P	BF2300190-003
MQ-C-B	Downstream of QMR2 Quarry	2023-08-01	FD	BF2300190-004
MQ-C-B	Downstream of QMR2 Quarry	2023-08-07	P	BF2300214-004
MQ-C-B	Downstream of QMR2 Quarry	2023-08-17	P	BF2300227-015
MQ-C-B	Downstream of QMR2 Quarry	2023-08-22	P	BF2300234-004
MQ-C-B	Downstream of QMR2 Quarry	2023-08-22	TB	BF2300234-005
MQ-C-B	Downstream of QMR2 Quarry	2023-08-31	P	BF2300251-016
MQ-C-D	Downstream of QMR2 Quarry	2023-08-01	P	BF2300190-002
MQ-C-D	Downstream of QMR2 Quarry	2023-08-07	P	BF2300214-001
MQ-C-D	Downstream of QMR2 Quarry	2023-08-17	P	BF2300227-014
MQ-C-D	Downstream of QMR2 Quarry	2023-08-22	P	BF2300234-003
MQ-C-D	Downstream of QMR2 Quarry	2023-08-31	P	BF2300251-015
KM105-SWMP-SEEP-02	KM105 Pond Stormwater	2023-08-02	P	BF2300191-001
KM105-SWMP-SEEP-02	KM105 Pond Stormwater	2023-08-15	P	BF2300224-003
KM105-SWMP-SEEP-02	KM105 Pond Stormwater	2023-08-29	P	BF2300247-003

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			MP-01
Field Sample ID			MP-01
ALS Laboratory Work Order			WT2324094
Sample Date			2023-08-02
Sample Type			P
Analyte	Units	Table 5 Criteria	
pH, Lab	pH units	9.5	7.89
Total Suspended Solids	mg/L	120	1.4
Total Dissolved Solids	mg/L		1100
Turbidity	NTU		0.64
Alkalinity, Total	mg/L		108
Ammonia, Total (as N)	mg/L		0.0712
Total Kjeldahl Nitrogen	mg/L		13.1
Fecal Coliforms	CFU/100mL	10000	< 1
BOD	mg/L	100	< 2.0
Oil and Grease, Total	mg/L		< 5.0
Phosphorus, Nutrient	mg/L		13.9

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			MP-01B
Field Sample ID			MP-01B
ALS Laboratory Work Order			WT2323831
Sample Date			2023-08-02
Sample Type			P
Analyte	Units	Table 5 Criteria	
pH, Lab	pH units	9.5	8.46
Total Suspended Solids	mg/L	120	< 1.0
Total Dissolved Solids	mg/L		987
Turbidity	NTU		0.28
Alkalinity, Total	mg/L		274
Ammonia, Total (as N)	mg/L		0.0763
Total Kjeldahl Nitrogen	mg/L		1.37
Fecal Coliforms	CFU/100mL	10000	< 1
BOD	mg/L	100	< 2.0
Oil and Grease, Total	mg/L		< 5.0
Phosphorus, Nutrient	mg/L		8.42

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

Location Name			MP-05	MP-05
Field Sample ID			MP-05_2023-08-11	QP-BT7_2023-08-11
ALS Laboratory Work Order			YL2301039	YL2301039
Sample Date			2023-08-11	2023-08-11
Sample Type			P	TB
Analyte	Units	Table 6 Criteria		
Hardness	mg/L		366	< 0.50
pH, Lab	pH units	9.5	8.42	-
pH, Lab	pH units	9.5	-	5.04
Total Suspended Solids	mg/L	15	< 1.0	< 1.0
Total Dissolved Solids	mg/L		733	< 10
Turbidity	NTU		3.80	< 0.10
Alkalinity, Total	mg/L		167	< 2.0
Ammonia, Total (as N)	mg/L		0.0419	< 0.0050
Chloride	mg/L		162	0.80
Fluoride	mg/L		0.250	< 0.020
Nitrate	mg/L		4.47	< 0.400
Total Kjeldahl Nitrogen	mg/L		0.522	< 0.050
Sulfate	mg/L		91.8	< 0.30
Dissolved Organic Carbon	mg/L		4.92	< 0.50
Total Organic Carbon	mg/L		4.71	< 0.50
Aluminum - Total	mg/L		0.0586	< 0.0030
Antimony - Total	mg/L		0.00021	< 0.00010
Arsenic - Total	mg/L	0.50	0.00028	< 0.00010
Barium - Total	mg/L		0.0179	< 0.00010
Cadmium - Total	mg/L		< 0.0000050	< 0.0000050
Calcium - Total	mg/L		77.0	< 0.050
Chromium - Total	mg/L		< 0.00050	< 0.00050
Cobalt - Total	mg/L		0.00028	< 0.00010
Copper - Total	mg/L	0.30	0.00173	< 0.00050
Iron - Total	mg/L		0.082	< 0.010
Lead - Total	mg/L	0.20	0.000107	< 0.000050
Lithium - Total	mg/L		0.0220	< 0.0010
Magnesium - Total	mg/L		42.1	< 0.0050
Manganese - Total	mg/L		0.0211	< 0.00010
Mercury - Total	mg/L		< 0.0000050	< 0.0000050
Molybdenum - Total	mg/L		0.00549	< 0.000050
Nickel - Total	mg/L	0.50	0.00095	< 0.00050
Phosphorus, Total	mg/L		< 0.050	< 0.050
Potassium - Total	mg/L		9.93	< 0.050
Selenium - Total	mg/L		0.000213	< 0.000050
Sodium - Total	mg/L		54.9	< 0.050
Strontium - Total	mg/L		0.292	< 0.00020
Thallium - Total	mg/L		0.000018	< 0.000010
Tin - Total	mg/L		< 0.00010	< 0.00010
Titanium - Total	mg/L		0.00089	< 0.00030
Uranium - Total	mg/L		0.140	< 0.000010
Vanadium - Total	mg/L		< 0.00050	< 0.00050
Zinc - Total	mg/L	0.50	0.0098	< 0.0030
Aluminum - Dissolved	mg/L		0.0226	< 0.0010
Arsenic - Dissolved	mg/L		0.00026	< 0.00010
Cadmium - Dissolved	mg/L		< 0.0000100	< 0.0000050
Calcium - Dissolved	mg/L		78.8	< 0.050
Copper - Dissolved	mg/L		0.00163	< 0.00020
Iron - Dissolved	mg/L		0.018	< 0.010
Lead - Dissolved	mg/L		< 0.000050	< 0.000050
Magnesium - Dissolved	mg/L		41.9	< 0.0050
Manganese - Dissolved	mg/L		0.0175	< 0.00010
Mercury - Dissolved	mg/L		< 0.0000050	< 0.0000050
Molybdenum - Dissolved	mg/L		0.00527	< 0.000050
Nickel - Dissolved	mg/L		0.00085	< 0.00050
Potassium - Dissolved	mg/L		10.5	< 0.050
Selenium - Dissolved	mg/L		0.000166	< 0.000050
Sodium - Dissolved	mg/L		55.2	< 0.050
Thallium - Dissolved	mg/L		0.000018	< 0.000010
Uranium - Dissolved	mg/L		0.142	< 0.000010
Zinc - Dissolved	mg/L		0.0093	< 0.0010
Visible Sheen (100=Yes, 0=No)	None	99	0	-
Phenols	ug/L		< 1.0	< 1.0
Phosphorus, Nutrient	mg/L		0.0053	< 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-06

Location Name			MP-06
Field Sample ID			MP-06_2023-08-11
ALS Laboratory Work Order			YL2301040
Sample Date			2023-08-11
Sample Type			P
Analyte	Units	Table 6 Criteria	
Hardness	mg/L		596
pH, Lab	pH units	9.5	8.15
Total Suspended Solids	mg/L	15	7.1
Total Dissolved Solids	mg/L		972
Turbidity	NTU		4.57
Alkalinity, Total	mg/L		99.7
Ammonia, Total (as N)	mg/L		0.668
Chloride	mg/L		96.3
Fluoride	mg/L		0.422
Nitrate	mg/L		18.6
Total Kjeldahl Nitrogen	mg/L		1.18
Sulfate	mg/L		440
Dissolved Organic Carbon	mg/L		2.46
Total Organic Carbon	mg/L		2.17
Aluminum - Total	mg/L		0.0360
Antimony - Total	mg/L		0.00012
Arsenic - Total	mg/L	0.50	0.00039
Barium - Total	mg/L		0.0229
Cadmium - Total	mg/L		< 0.0000100
Calcium - Total	mg/L		118
Chromium - Total	mg/L		< 0.00050
Cobalt - Total	mg/L		0.00049
Copper - Total	mg/L	0.30	< 0.00050
Iron - Total	mg/L		0.074
Lead - Total	mg/L	0.20	< 0.000050
Lithium - Total	mg/L		0.0242
Magnesium - Total	mg/L		73.2
Manganese - Total	mg/L		0.0241
Mercury - Total	mg/L		< 0.0000050
Molybdenum - Total	mg/L		0.00837
Nickel - Total	mg/L	0.50	0.00120
Phosphorus, Total	mg/L		< 0.050
Potassium - Total	mg/L		12.6
Selenium - Total	mg/L		0.000913
Sodium - Total	mg/L		64.5
Strontium - Total	mg/L		0.443
Thallium - Total	mg/L		0.000078
Tin - Total	mg/L		< 0.00010
Titanium - Total	mg/L		< 0.00030
Uranium - Total	mg/L		0.554
Vanadium - Total	mg/L		< 0.00050
Zinc - Total	mg/L	0.50	< 0.0030
Aluminum - Dissolved	mg/L		0.0065
Arsenic - Dissolved	mg/L		0.00034
Cadmium - Dissolved	mg/L		< 0.0000050
Calcium - Dissolved	mg/L		123
Copper - Dissolved	mg/L		0.00040
Iron - Dissolved	mg/L		< 0.010
Lead - Dissolved	mg/L		< 0.000050
Magnesium - Dissolved	mg/L		72.8
Manganese - Dissolved	mg/L		0.0123
Mercury - Dissolved	mg/L		< 0.0000050
Molybdenum - Dissolved	mg/L		0.00850
Nickel - Dissolved	mg/L		0.00092
Potassium - Dissolved	mg/L		13.3
Selenium - Dissolved	mg/L		0.000816
Sodium - Dissolved	mg/L		64.4
Thallium - Dissolved	mg/L		0.000077
Uranium - Dissolved	mg/L		0.580
Zinc - Dissolved	mg/L		0.0014
Visible Sheen (100=Yes,	None	99	0
Phenols	ug/L		< 1.0
Phosphorus, Nutrient	mg/L		0.0081

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			MP-C-B	MP-C-B
Field Sample ID			MP-C-B_2023-08-22	MP-C-B_2023-08-27
ALS Laboratory Work Order			WT2326435	BF2300244
Sample Date			2023-08-22	2023-08-27
Sample Type			P	P
Analyte	Units	Table 9 Criteria		
Conductivity	umhos/cm		650	-
pH, Lab	pH units	9.5	8.39	8.24
Total Suspended Solids	mg/L	30	1.1	5.7
Total Dissolved Solids	mg/L		336	372
Turbidity	NTU		4.90	16.9
Ammonia, Total (as N)	mg/L		0.481	-
Nitrate	mg/L		3.81	-
Oil and Grease, Total	mg/L		< 5.0	-
Visible Sheen (100=Yes, 0=No)	None	99	0	0

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			MP-C-K	MP-C-K	MP-C-K	MP-C-K	MP-C-K	MP-C-K	MP-C-K
Field Sample ID			MP-C-K_2023-08-01	QP-BT2_2023-08-01	MP-C-K_2023-08-07	MP-C-K_2023-08-13	MP-C-K_2023-08-22	QP-CC2_2023-08-22	MP-C-K_2023-08-27
ALS Laboratory Work Order			BF2300196	BF2300196	BF2300213	BF2300219	WT2326435	WT2326435	BF2300244
Sample Date			2023-08-01	2023-08-01	2023-08-07	2023-08-13	2023-08-22	2023-08-22	2023-08-27
Sample Type			P	TB	P	P	P	FD	P
Analyte	Units	Table 9 Criteria							
Conductivity	umhos/cm		771	1.2	-	-	-	-	-
pH, Lab	pH units	9.5	8.12	7.05	8.00	8.07	8.19	8.19	8.10
Total Suspended Solids	mg/L	30	< 1.3	< 1.4	< 1.3	3.2	< 1.0	< 1.0	2.7
Total Dissolved Solids	mg/L		419	< 17	459	478	530	522	549
Turbidity	NTU		1.06	0.57	0.72	2.80	0.66	1.07	2.59
Ammonia, Total (as N)	mg/L		5.55	< 0.0050	-	-	-	-	-
Nitrate	mg/L		1.50	< 0.020	-	-	-	-	-
Oil and Grease, Total	mg/L		< 5.0	< 5.0	-	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	-	0	0	0	-	0

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			MP-C-H	MP-C-H	MP-C-H	MP-C-H	MP-C-H	MP-C-H
Field Sample ID			MP-C-H_2023-08-01	MP-C-H_2023-08-07	MP-C-H_2023-08-13	MP-C-H_2023-08-22	QP-CC2_2023-08-27	MP-C-H_2023-08-27
ALS Laboratory			BF2300196	BF2300213	BF2300219	WT2326435	BF2300244	BF2300244
Sample Date			2023-08-01	2023-08-07	2023-08-13	2023-08-22	2023-08-27	2023-08-27
Sample Type			P	P	P	P	FD	P
Analyte	Units	Table 9 Criteria						
Conductivity	umhos/cm		442	-	-	-	-	-
pH, Lab	pH units	9.5	8.10	8.18	8.14	8.32	8.13	8.13
Total Suspended Solids	mg/L	30	< 1.4	< 1.3	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L		232	255	188	150	188	188
Turbidity	NTU		1.37	1.54	0.93	0.55	0.92	0.36
Ammonia, Total (as N)	mg/L		0.152	-	-	-	-	-
Nitrate	mg/L		1.00	-	-	-	-	-
Oil and Grease, Total	mg/L		< 5.0	-	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	0	0	0	0	0

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			MP-C-J	MP-C-J	MP-C-J	MP-C-J	MP-C-J	MP-C-J	MP-C-J
Field Sample ID			MP-C-J_2023-08-01	MP-C-J_2023-08-07	QP-CC2_2023-08-07	MP-C-J_2023-08-13	QP-CC2_2023-08-13	MP-C-J_2023-08-22	MP-C-J_2023-08-27
ALS Laboratory Work Order			BF2300196	BF2300213	BF2300213	BF2300219	BF2300219	WT2326435	BF2300244
Sample Date			2023-08-01	2023-08-07	2023-08-07	2023-08-13	2023-08-13	2023-08-22	2023-08-27
Sample Type			P	P	FD	P	FD	P	P
Analyte	Units	Table 9 Criteria							
Conductivity	umhos/cm		553	-	-	-	-	-	-
pH, Lab	pH units	9.5	7.69	7.82	7.83	7.80	7.70	8.16	7.88
Total Suspended Solids	mg/L	30	< 1.4	< 1.4	< 1.3	< 1.2	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L		292	293	287	302	298	186	239
Turbidity	NTU		0.13	0.23	< 0.10	0.11	0.21	0.58	0.46
Ammonia, Total (as N)	mg/L		0.0053	-	-	-	-	-	-
Nitrate	mg/L		0.103	-	-	-	-	-	-
Oil and Grease, Total	mg/L		< 5.0	-	-	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	0	-	0	-	0	0

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				MP-Q1-01	MP-Q1-01
Field Sample ID				MP-Q1-01_2023-08-01	MP-Q1-01_2023-08-22
ALS Laboratory Work Order				BF2300196	WT2326435
Sample Date				2023-08-01	2023-08-22
Sample Type				P	P
Analyte	Units	Table 9 Criteria	Table 9 Criteria (Quarry)		
Conductivity	umhos/cm			175	-
pH, Lab	pH units	9.5	9.5	7.56	8.09
Total Suspended Solids	mg/L	30	30	< 1.3	< 1.0
Total Dissolved Solids	mg/L			102	83
Turbidity	NTU			3.53	5.20
Ammonia, Total (as N)	mg/L			0.0052	-
Nitrate	mg/L			0.306	-
Oil and Grease, Total	mg/L			< 5.0	-
Visible Sheen (100=Yes, 0=No)	None	99	99	0	0
Mean Mortality to Daphnia magna	%		50	< 1.0	-
Mean Mortality to Rainbow Trout	%		50	< 1.0	-

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				MP-Q1-02	MP-Q1-02	MP-Q1-02	MP-Q1-02	MP-Q1-02
Field Sample ID				MP-Q1-02_2023-08-01	MP-Q1-02_2023-08-07	MP-Q1-02_2023-08-13	MP-Q1-02_2023-08-22	MP-Q1-02_2023-08-27
ALS Laboratory Work Order				BF2300196	BF2300213	BF2300219	WT2326435	BF2300244
Sample Date				2023-08-01	2023-08-07	2023-08-13	2023-08-22	2023-08-27
Sample Type				P	P	P	P	P
Analyte	Units	Table 9 Criteria	Table 9 Criteria (Quarry)					
Conductivity	umhos/cm			542	-	-	-	-
pH, Lab	pH units	9.5	9.5	7.73	7.91	8.02	8.01	7.90
Total Suspended Solids	mg/L	30	30	< 1.3	< 1.3	< 1.0	< 1.0	< 1.3
Total Dissolved Solids	mg/L			335	330	298	331	398
Turbidity	NTU			1.61	2.14	1.32	3.64	1.87
Ammonia, Total (as N)	mg/L			2.43	-	-	-	-
Nitrate	mg/L			21.9	-	-	-	-
Oil and Grease, Total	mg/L			< 5.0	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	99	0	0	0	0	0

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	MS-01B
			Field Sample ID	MS-01B_2023-08-09
			ALS Laboratory Work Order	WT2324649
			Sample Date	2023-08-09
			Sample Type	P
Analyte	Units	Table 4 Criteria		
pH, Lab	pH units	9.5		8.17
Total Suspended Solids	mg/L	35		8.2
Total Dissolved Solids	mg/L			727
Turbidity	NTU			0.48
Alkalinity, Total	mg/L			218
Ammonia, Total (as N)	mg/L	4.0		0.331
Total Kjeldahl Nitrogen	mg/L			2.74
Fecal Coliforms	CFU/100mL	1000		26
BOD	mg/L	30		3.7
Oil and Grease, Total	mg/L			< 5.0
Phosphorus, Nutrient	mg/L	4.0		1.72

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-06

			Location Name
			MS-MRY-06
			MS-MRY-06_2023-08-08
			Field Sample ID
			ALS Laboratory Work Order
			BF2300211
			Sample Date
			2023-08-08
			Sample Type
			P
Analyte	Units	Table 10 Criteria	
pH, Lab	pH units		7.02
Total Suspended Solids	mg/L		< 1.3
Total Dissolved Solids	mg/L		412
Turbidity	NTU		1.47
Lead - Total	mg/L	0.0	0.000636
Oil and Grease, Total	mg/L	1	< 5.0
Visible Sheen (100=Yes, 0=No)	None	9	0
Benzene	ug/L	3	< 0.50
Ethylbenzene	ug/L	9	< 0.50
Toluene	ug/L	2	< 0.50
F1-BTEX	ug/L		< 25
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-06

Location Name			MS-06
Field Sample ID			MS-06_2023-08-22
ALS Laboratory Work Order			BF2300233
Sample Date			2023-08-22
Sample Type			P
Analyte	Table 11 Criteria		
Hardness	mg/L		734
Conductivity	umhos/cm		1410
pH, Lab	pH units	9.5	7.63
Total Suspended Solids	mg/L	15	1.5
Total Dissolved Solids	mg/L		1020
Turbidity	NTU		13.0
Alkalinity, Total	mg/L		72.4
Ammonia, Total (as N)	mg/L		0.0133
Chloride	mg/L		59.5
Fluoride	mg/L		0.102
Nitrate	mg/L		17.4
Total Kjeldahl Nitrogen	mg/L		0.220
Sulfate	mg/L		523
Dissolved Organic Carbon	mg/L		3.07
Total Organic Carbon	mg/L		2.52
Aluminum - Total	mg/L		0.0358
Antimony - Total	mg/L		<0.00100
Arsenic - Total	mg/L	0.50	<0.00100
Barium - Total	mg/L		0.0199
Cadmium - Total	mg/L		<0.0000500
Calcium - Total	mg/L		74.2
Chromium - Total	mg/L		<0.00500
Cobalt - Total	mg/L		<0.00100
Copper - Total	mg/L	0.30	<0.00500
Iron - Total	mg/L		0.213
Lead - Total	mg/L	0.20	<0.000500
Lithium - Total	mg/L		0.0233
Magnesium - Total	mg/L		128
Manganese - Total	mg/L		0.0228
Mercury - Total	mg/L		<0.0000050
Molybdenum - Total	mg/L		0.00255
Nickel - Total	mg/L	0.50	<0.00500
Phosphorus, Total	mg/L		<0.500
Potassium - Total	mg/L		16.7
Selenium - Total	mg/L		0.00173
Sodium - Total	mg/L		23.5
Strontium - Total	mg/L		0.183
Thallium - Total	mg/L		<0.000100
Tin - Total	mg/L		<0.00100
Titanium - Total	mg/L		<0.00300
Uranium - Total	mg/L		0.00650
Vanadium - Total	mg/L		<0.00500
Zinc - Total	mg/L	0.50	<0.0300
Aluminum - Dissolved	mg/L		<0.0100
Arsenic - Dissolved	mg/L		<0.00100
Cadmium - Dissolved	mg/L		<0.0000500
Calcium - Dissolved	mg/L		74.8
Copper - Dissolved	mg/L		<0.00200
Iron - Dissolved	mg/L		<0.100
Lead - Dissolved	mg/L		<0.000500
Magnesium - Dissolved	mg/L		133
Manganese - Dissolved	mg/L		0.0132
Mercury - Dissolved	mg/L		<0.0000050
Molybdenum - Dissolved	mg/L		0.00270
Nickel - Dissolved	mg/L		<0.00500
Potassium - Dissolved	mg/L		<0.500
Selenium - Dissolved	mg/L		0.00205
Sodium - Dissolved	mg/L		24.2
Thallium - Dissolved	mg/L		<0.000100
Uranium - Dissolved	mg/L		0.00724
Zinc - Dissolved	mg/L		<0.0100
Visible Sheen (100=Yes, 0=No)	None	99	-
Mean Mortality to Daphnia magna	%	50	<1.0
Mean Mortality to Rainbow Trout	%	50	<1.0
Phosphorus, Nutrient	mg/L		0.0049

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_2023-08-01
		ALS Laboratory Work Order	BF2300187
		Sample Date	2023-08-01
		Sample Type	P
Analyte	Units	Table 6 Criteria	FDP + TOX taken
Hardness	mg/L		305
Conductivity	umhos/cm		638
pH, Lab	pH units	9.5	6.99
pH, Lab	pH units	9.5	-
Total Suspended Solids	mg/L	15	3.2
Total Dissolved Solids	mg/L		425
Turbidity	NTU		10.3
Alkalinity, Total	mg/L		7.0
Ammonia, Total (as N)	mg/L		0.449
Chloride	mg/L		3.73
Fluoride	mg/L		0.075
Nitrate	mg/L		4.15
Total Kjeldahl Nitrogen	mg/L		0.569
Sulfate	mg/L		274
Dissolved Organic Carbon	mg/L		0.84
Total Organic Carbon	mg/L		0.85
Aluminum - Total	mg/L		0.0367
Antimony - Total	mg/L		< 0.00010
Arsenic - Total	mg/L	0.50	< 0.00010
Barium - Total	mg/L		0.00964
Cadmium - Total	mg/L		0.0000586
Calcium - Total	mg/L		27.2
Chromium - Total	mg/L		< 0.00050
Cobalt - Total	mg/L		0.0166
Copper - Total	mg/L	0.30	0.00244
Iron - Total	mg/L		1.48
Lead - Total	mg/L	0.20	0.000054
Lithium - Total	mg/L		0.0083
Magnesium - Total	mg/L		57.3
Manganese - Total	mg/L		1.57
Mercury - Total	mg/L		< 0.0000050
Molybdenum - Total	mg/L		0.000522
Nickel - Total	mg/L	0.50	0.0197
Phosphorus, Total	mg/L		< 0.050
Potassium - Total	mg/L		3.40
Selenium - Total	mg/L		0.00224
Sodium - Total	mg/L		1.26
Strontium - Total	mg/L		0.0477
Thallium - Total	mg/L		0.000049
Tin - Total	mg/L		< 0.00010
Titanium - Total	mg/L		< 0.00300
Uranium - Total	mg/L		0.000183
Vanadium - Total	mg/L		0.00181
Zinc - Total	mg/L	0.50	0.0043
Aluminum - Dissolved	mg/L		0.0015
Arsenic - Dissolved	mg/L		< 0.00010
Cadmium - Dissolved	mg/L		0.0000554
Calcium - Dissolved	mg/L		27.7
Copper - Dissolved	mg/L		0.00132
Iron - Dissolved	mg/L		0.072
Lead - Dissolved	mg/L		< 0.000050
Magnesium - Dissolved	mg/L		57.2
Manganese - Dissolved	mg/L		1.53
Mercury - Dissolved	mg/L		< 0.0000050
Molybdenum - Dissolved	mg/L		0.000356
Nickel - Dissolved	mg/L		0.0181
Potassium - Dissolved	mg/L		3.38
Selenium - Dissolved	mg/L		0.00217
Sodium - Dissolved	mg/L		1.26
Thallium - Dissolved	mg/L		0.000045
Uranium - Dissolved	mg/L		0.000042
Zinc - Dissolved	mg/L		0.0039
Visible Sheen (100=Yes, 0=No)	None	99	0
Mean Mortality to Daphnia magna	%	50	< 1.0
Mean Mortality to Rainbow Trout	%	50	10.0
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 - 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_2023-08-02	MS-MRY-09_2023-08-07	MS-MRY-09_2023-08-17	MS-MRY-09_2023-08-30
			BF2300190	BF2300214	BF2300227	BF2300251
			2023-08-02	2023-08-07	2023-08-17	2023-08-30
			P	P	P	P
Analyte	Units	Table 6 Criteria				
Hardness	mg/L		45.3	-	-	-
pH, Lab	pH units	9.5	8.05	7.92	7.71	7.84
Total Suspended Solids	mg/L	15	< 1.0	< 1.4	< 1.0	< 1.0
Total Dissolved Solids	mg/L		48	55	74	108
Turbidity	NTU		0.48	0.36	0.54	1.10
Alkalinity, Total	mg/L		68.0	-	-	-
Ammonia, Total (as N)	mg/L		< 0.0050	-	-	-
Chloride	mg/L		3.18	-	-	-
Fluoride	mg/L		< 0.020	-	-	-
Nitrate	mg/L		0.118	-	-	-
Total Kjeldahl Nitrogen	mg/L		< 0.050	-	-	-
Sulfate	mg/L		1.99	-	-	-
Dissolved Organic Carbon	mg/L		1.39	-	-	-
Total Organic Carbon	mg/L		1.70	-	-	-
Aluminum - Total	mg/L		0.0184	-	-	-
Antimony - Total	mg/L		< 0.00010	-	-	-
Arsenic - Total	mg/L	0.50	< 0.00010	-	-	-
Barium - Total	mg/L		0.00704	-	-	-
Cadmium - Total	mg/L		0.0000063	-	-	-
Calcium - Total	mg/L		8.81	-	-	-
Chromium - Total	mg/L		< 0.00050	-	-	-
Cobalt - Total	mg/L		< 0.00010	-	-	-
Copper - Total	mg/L	0.30	0.00204	-	-	-
Iron - Total	mg/L		0.022	-	-	-
Lead - Total	mg/L	0.20	< 0.000050	-	-	-
Lithium - Total	mg/L		< 0.0010	-	-	-
Magnesium - Total	mg/L		5.65	-	-	-
Manganese - Total	mg/L		0.00070	-	-	-
Mercury - Total	mg/L		< 0.0000050	-	-	-
Molybdenum - Total	mg/L		0.000860	-	-	-
Nickel - Total	mg/L	0.50	< 0.00050	-	-	-
Phosphorus, Total	mg/L		< 0.050	-	-	-
Potassium - Total	mg/L		1.72	-	-	-
Selenium - Total	mg/L		0.000050	-	-	-
Sodium - Total	mg/L		0.466	-	-	-
Strontium - Total	mg/L		0.00675	-	-	-
Thallium - Total	mg/L		0.000016	-	-	-
Tin - Total	mg/L		< 0.00010	-	-	-
Titanium - Total	mg/L		0.00070	-	-	-
Uranium - Total	mg/L		0.00121	-	-	-
Vanadium - Total	mg/L		< 0.00050	-	-	-
Zinc - Total	mg/L	0.50	< 0.0030	-	-	-
Aluminum - Dissolved	mg/L		0.0068	-	-	-
Arsenic - Dissolved	mg/L		< 0.00010	-	-	-
Cadmium - Dissolved	mg/L		< 0.0000050	-	-	-
Calcium - Dissolved	mg/L		9.29	-	-	-
Copper - Dissolved	mg/L		0.00191	-	-	-
Iron - Dissolved	mg/L		< 0.010	-	-	-
Lead - Dissolved	mg/L		< 0.000050	-	-	-
Magnesium - Dissolved	mg/L		5.75	-	-	-
Manganese - Dissolved	mg/L		0.00039	-	-	-
Mercury - Dissolved	mg/L		< 0.0000050	-	-	-
Molybdenum - Dissolved	mg/L		0.000866	-	-	-
Nickel - Dissolved	mg/L		< 0.00050	-	-	-
Potassium - Dissolved	mg/L		1.80	-	-	-
Selenium - Dissolved	mg/L		0.000061	-	-	-
Sodium - Dissolved	mg/L		0.487	-	-	-
Thallium - Dissolved	mg/L		0.000010	-	-	-
Uranium - Dissolved	mg/L		0.00117	-	-	-
Zinc - Dissolved	mg/L		< 0.0010	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	0	0	0
Phenols	ug/L		< 1.0	-	-	-
Phosphorus, Nutrient	mg/L		0.0048	-	-	-

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	MS-MRY-13A
			Field Sample ID	MS-MRY-13A_2023-08-20	MS-MRY-13A_2023-08-30
			ALS Laboratory Work Order	BF2300230	BF2300251
			Sample Date	2023-08-20	2023-08-30
			Sample Type	P	P
Analyte	Units	Table 10 Criteria			
Conductivity	umhos/cm		903	-	
pH, Lab	pH units	9.5	8.13	7.84	
Total Suspended Solids	mg/L	15	< 1.2	8.7	
Total Dissolved Solids	mg/L		593	588	
Turbidity	NTU		0.58	1.85	
Alkalinity, Total	mg/L		206	-	
Dissolved Organic Carbon	mg/L		9.04	-	
Total Organic Carbon	mg/L		5.27	-	
Aluminum - Total	mg/L		0.0090	-	
Antimony - Total	mg/L		0.00034	-	
Arsenic - Total	mg/L	0.50	0.00019	-	
Barium - Total	mg/L		0.0550	-	
Cadmium - Total	mg/L		0.0000394	-	
Calcium - Total	mg/L		78.0	-	
Chromium - Total	mg/L		< 0.00050	-	
Cobalt - Total	mg/L		0.00023	-	
Copper - Total	mg/L	0.30	0.00228	-	
Iron - Total	mg/L		0.019	-	
Lead - Total	mg/L	0.20	0.000116	-	
Lithium - Total	mg/L		0.0440	-	
Magnesium - Total	mg/L		52.2	-	
Manganese - Total	mg/L		0.00172	-	
Mercury - Total	mg/L		< 0.0000050	-	
Molybdenum - Total	mg/L		0.000566	-	
Nickel - Total	mg/L	0.50	0.0132	-	
Phosphorus, Total	mg/L		< 0.050	-	
Potassium - Total	mg/L		5.42	-	
Selenium - Total	mg/L		0.000086	-	
Sodium - Total	mg/L		29.0	-	
Strontium - Total	mg/L		0.0685	-	
Thallium - Total	mg/L		0.000022	-	
Tin - Total	mg/L		< 0.00010	-	
Titanium - Total	mg/L		0.00039	-	
Uranium - Total	mg/L		0.00939	-	
Vanadium - Total	mg/L		< 0.00050	-	
Zinc - Total	mg/L	0.50	0.0030	-	
Oil and Grease, Total	mg/L		< 5.0	-	
Visible Sheen (100=Yes, 0=No)	None	99	0	0	
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-MRY-13B

Location Name			MS-MRY-13B	MS-MRY-13B	MS-MRY-13B	MS-MRY-13B	MS-MRY-13B	MS-MRY-13B
Field Sample ID			MS-MRY-13B_2023-08-02	MS-MRY-13B_2023-08-08	MS-MRY-13B_2023-08-17	MS-MRY-13B_2023-08-22	MS-MRY-13B_2023-08-30	MS-MRY-13B_QD-BF2_2023-08-30
ALS Laboratory Work Order			BF2300190	BF2300214	BF2300227	BF2300234	BF2300251	BF2300251
Sample Date			2023-08-02	2023-08-08	2023-08-17	2023-08-22	2023-08-30	2023-08-30
Sample Type			P	P	P	P	P	FB
Analyte	Units	Table 10 Criteria						
Conductivity	umhos/cm		911	-	-	-	-	-
pH, Lab	pH units	9.5	8.39	8.00	8.09	7.96	7.85	5.91
Total Suspended Solids	mg/L	15	2.2	1.8	2.3	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L		578	659	758	718	886	31
Turbidity	NTU		0.40	1.04	1.36	0.33	1.21	0.29
Alkalinity, Total	mg/L		181	-	-	-	-	-
Dissolved	mg/L		6.20	-	-	-	-	-
Total Organic	mg/L		6.52	-	-	-	-	-
Aluminum -	mg/L		0.0495	-	-	-	-	-
Antimony - Total	mg/L		< 0.00100	-	-	-	-	-
Arsenic - Total	mg/L	0.50	< 0.00100	-	-	-	-	-
Barium - Total	mg/L		0.0524	-	-	-	-	-
Cadmium - Total	mg/L		< 0.0000500	-	-	-	-	-
Calcium - Total	mg/L		91.5	-	-	-	-	-
Chromium -	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		0.0444	-	-	-	-	-
Magnesium -	mg/L		48.1	-	-	-	-	-
Manganese -	mg/L		0.00333	-	-	-	-	-
Mercury - Total	mg/L		< 0.0000050	-	-	-	-	-
Molybdenum - Total	mg/L		< 0.000500	-	-	-	-	-
Nickel - Total	mg/L	0.50	0.0140	-	-	-	-	-
Phosphorus,	mg/L		< 0.500	-	-	-	-	-
Potassium - Total	mg/L		4.96	-	-	-	-	-
Selenium - Total	mg/L		< 0.000500	-	-	-	-	-
Sodium - Total	mg/L		26.0	-	-	-	-	-
Strontium -	mg/L		0.122	-	-	-	-	-
Thallium - Total	mg/L		< 0.000100	-	-	-	-	-
Tin - Total	mg/L		< 0.00100	-	-	-	-	-
Titanium - Total	mg/L		< 0.00300	-	-	-	-	-
Uranium - Total	mg/L		0.00687	-	-	-	-	-
Vanadium -	mg/L		< 0.00500	-	-	-	-	-
Zinc - Total	mg/L	0.50	< 0.0300	-	-	-	-	-
Oil and Grease,	mg/L		< 5.0	-	-	-	-	-
Visible Sheen	None	99	0	0	0	0	0	-
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	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_2023-08-01	MS-C-A_2023-08-08	QD-CC2_2023-08-08	MS-C-A_2023-08-17
			BF2300190	BF2300214	BF2300214	BF2300227
			2023-08-01	2023-08-08	2023-08-08	2023-08-17
			P	P	FD	P
Analyte	Units	Table 9 Criteria				
Conductivity	umhos/cm		338	-	-	-
pH, Lab	pH units	9.5	8.13	7.97	7.97	7.97
Total Suspended Solids	mg/L	30	1.4	< 1.3	< 1.3	< 1.0
Total Dissolved Solids	mg/L		181	190	221	293
Turbidity	NTU		2.09	2.64	1.93	2.42
Ammonia, Total (as N)	mg/L		< 0.0050	-	-	-
Nitrate	mg/L		1.07	-	-	-
Oil and Grease, Total	mg/L		< 5.0	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	0	-	0

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			MS-C-A	MS-C-A
Field Sample ID			MS-C-A_2023-08-22	MS-C-A_2023-08-30
ALS Laboratory Work Order			BF2300234	BF2300251
Sample Date			2023-08-22	2023-08-30
Sample Type			P	P
Analyte	Units	Table 9 Criteria		
Conductivity	umhos/cm		-	-
pH, Lab	pH units	9.5	7.67	7.70
Total Suspended Solids	mg/L	30	1.9	3.8
Total Dissolved Solids	mg/L		319	293
Turbidity	NTU		4.46	10.2
Ammonia, Total (as N)	mg/L		-	-
Nitrate	mg/L		-	-
Oil and Grease, Total	mg/L		-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	0

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_2023-08-01	MS-C-B_2023-08-08	MS-C-B_2023-08-17	MS-C-B_2023-08-22
			BF2300190	BF2300214	BF2300227	BF2300234
			2023-08-01	2023-08-08	2023-08-17	2023-08-22
			P	P	P	P
Analyte	Units	Table 9 Criteria				
Conductivity	umhos/cm		351	-	-	-
pH, Lab	pH units	9.5	8.17	7.79	7.86	7.70
Total Suspended Solids	mg/L	30	5.2	1.4	1.2	1.8
Total Dissolved Solids	mg/L		193	208	291	322
Turbidity	NTU		2.73	10.2	3.24	5.66
Ammonia, Total (as N)	mg/L		< 0.0050	-	-	-
Nitrate	mg/L		1.13	-	-	-
Oil and Grease, Total	mg/L		< 5.0	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	0	0	0

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	MS-C-B
			Field Sample ID	MS-C-B_2023-08-30
			ALS Laboratory Work Order	BF2300251
			Sample Date	2023-08-30
			Sample Type	P
Analyte	Units	Table 9 Criteria		
Conductivity	umhos/cm			-
pH, Lab	pH units	9.5		7.67
Total Suspended Solids	mg/L	30		4.0
Total Dissolved Solids	mg/L			286
Turbidity	NTU			11.0
Ammonia, Total (as N)	mg/L			-
Nitrate	mg/L			-
Oil and Grease, Total	mg/L			-
Visible Sheen (100=Yes, 0=No)	None	99		0

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	MS-C-C	MS-C-C	MS-C-C	MS-C-C	MS-C-C
			Field Sample ID	MS-C-C_2023-08-01	MS-C-C_2023-08-08	MS-C-C_2023-08-17	MS-C-C_2023-08-22	MS-C-C_2023-08-30
			ALS Laboratory Work Order	BF2300190	BF2300214	BF2300227	BF2300234	BF2300251
			Sample Date	2023-08-01	2023-08-08	2023-08-17	2023-08-22	2023-08-30
			Sample Type	P	P	P	P	P
Analyte	Units	Table 9 Criteria						
Conductivity	umhos/cm			1090	-	-	-	-
pH, Lab	pH units	9.5		8.45	8.02	8.21	7.97	7.89
Total Suspended Solids	mg/L	30		1.8	< 1.4	2.3	4.4	2.1
Total Dissolved Solids	mg/L			690	748	673	578	554
Turbidity	NTU			1.00	1.04	2.88	9.91	4.45
Ammonia, Total (as N)	mg/L			0.0114	-	-	-	-
Nitrate	mg/L			7.20	-	-	-	-
Oil and Grease, Total	mg/L			< 5.0	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99		0	0	0	0	0

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	MS-C-D
			MS-C-D_2023-08-01	MS-C-D_2023-08-08	MS-C-D_2023-08-17	MS-C-D_2023-08-22	MS-C-D_2023-08-30	QD-CC2_2023-08-30
			BF2300190	BF2300214	BF2300227	BF2300234	BF2300251	BF2300251
			2023-08-01	2023-08-08	2023-08-17	2023-08-22	2023-08-30	2023-08-30
			P	P	P	P	P	FD
Analyte	Units	Table 9 Criteria						
Conductivity	umhos/cm		1010	-	-	-	-	-
pH, Lab	pH units	9.5	8.61	8.36	8.36	8.08	7.93	7.91
Total Suspended Solids	mg/L	30	2.5	< 1.4	10.5	4.4	10.0	9.5
Total Dissolved Solids	mg/L		600	592	630	563	475	467
Turbidity	NTU		1.79	2.32	12.9	13.3	29.6	30.1
Ammonia, Total (as N)	mg/L		0.0168	-	-	-	-	-
Nitrate	mg/L		3.14	-	-	-	-	-
Oil and Grease, Total	mg/L		< 5.0	-	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	0	0	0	0	-

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	MS-C-E
			MS-C-E_2023-08-01	QD-BF2_2023-08-01	MS-C-E_2023-08-08	MS-C-E_2023-08-17	MS-C-E_2023-08-22	MS-C-E_2023-08-30
			BF2300190	BF2300190	BF2300214	BF2300227	BF2300234	BF2300251
			2023-08-01	2023-08-01	2023-08-08	2023-08-17	2023-08-22	2023-08-30
			P	FB	P	P	P	P
Analyte	Units	Table 9 Criteria						
Conductivity	umhos/cm		1010	1.3	-	-	-	-
pH, Lab	pH units	9.5	8.29	6.18	7.92	8.07	7.93	7.82
Total Suspended Solids	mg/L	30	2.6	< 1.0	2.2	4.0	< 1.0	14.6
Total Dissolved Solids	mg/L		652	< 10	660	689	605	524
Turbidity	NTU		1.52	< 0.10	1.64	2.80	2.84	14.3
Ammonia, Total (as N)	mg/L		0.0233	< 0.0050	-	-	-	-
Nitrate	mg/L		3.90	< 0.020	-	-	-	-
Oil and Grease, Total	mg/L		< 5.0	< 5.0	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	-	0	0	0	0

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	MS-C-F	MS-C-F	MS-C-F	MS-C-F	MS-C-F
			Field Sample ID	MS-C-F_2023-08-01	MS-C-F_2023-08-08	MS-C-F_2023-08-17	MS-C-F_2023-08-22	MS-C-F_2023-08-30
			ALS Laboratory Work Order	BF2300190	BF2300214	BF2300227	BF2300234	BF2300251
			Sample Date	2023-08-01	2023-08-08	2023-08-17	2023-08-22	2023-08-30
			Sample Type	P	P	P	P	P
Analyte	Units	Table 9 Criteria						
Conductivity	umhos/cm		393	-	-	-	-	-
pH, Lab	pH units	9.5	8.32	8.09	7.98	7.65	7.75	
Total Suspended Solids	mg/L	30	2.8	3.2	12.1	6.8	11.3	
Total Dissolved Solids	mg/L		214	237	350	346	338	
Turbidity	NTU		7.83	0.26	18.0	14.0	24.6	
Ammonia, Total (as N)	mg/L		0.0055	-	-	-	-	
Nitrate	mg/L		1.43	-	-	-	-	
Oil and Grease, Total	mg/L		< 5.0	-	-	-	-	
Visible Sheen (100=Yes, 0=No)	None	99	0	0	0	0	0	

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
			MS-C-G_2023-08-02	MS-C-G_2023-08-08	MS-C-G_2023-08-17	MS-C-G_2023-08-22	MS-C-G_2023-08-31
			BF2300190	BF2300214	BF2300227	BF2300234	BF2300251
			2023-08-02	2023-08-08	2023-08-17	2023-08-22	2023-08-31
			P	P	P	P	P
Analyte	Units	Table 9 Criteria					
Conductivity	umhos/cm		215	-	-	-	234
pH, Lab	pH units	9.5	8.13	7.79	7.34	7.77	7.45
Total Suspended Solids	mg/L	30	< 1.0	< 1.3	1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L		133	158	123	141	154
Turbidity	NTU		0.20	0.20	0.17	0.24	0.79
Alkalinity, Total	mg/L		-	-	-	-	90.2
Ammonia, Total (as N)	mg/L		0.0126	-	-	-	0.825
Chloride	mg/L		-	-	-	-	1.15
Nitrate	mg/L		2.75	-	-	-	7.08
Total Kjeldahl Nitrogen	mg/L		-	-	-	-	1.35
Sulfate	mg/L		-	-	-	-	2.76
Dissolved Organic Carbon	mg/L		-	-	-	-	2.91
Total Organic Carbon	mg/L		-	-	-	-	2.71
Aluminum - Total	mg/L		-	-	-	-	0.0052
Antimony - Total	mg/L		-	-	-	-	< 0.00010
Arsenic - Total	mg/L		-	-	-	-	< 0.00010
Barium - Total	mg/L		-	-	-	-	0.0139
Cadmium - Total	mg/L		-	-	-	-	< 0.0000050
Calcium - Total	mg/L		-	-	-	-	22.7
Chromium - Total	mg/L		-	-	-	-	< 0.00050
Cobalt - Total	mg/L		-	-	-	-	< 0.00010
Copper - Total	mg/L		-	-	-	-	0.00108
Iron - Total	mg/L		-	-	-	-	0.038
Lead - Total	mg/L		-	-	-	-	< 0.000050
Lithium - Total	mg/L		-	-	-	-	0.0017
Magnesium - Total	mg/L		-	-	-	-	14.2
Manganese - Total	mg/L		-	-	-	-	0.00141
Mercury - Total	mg/L		-	-	-	-	< 0.0000050
Molybdenum - Total	mg/L		-	-	-	-	0.000688
Nickel - Total	mg/L		-	-	-	-	0.00120
Phosphorus, Total	mg/L		-	-	-	-	< 0.050
Potassium - Total	mg/L		-	-	-	-	1.56
Selenium - Total	mg/L		-	-	-	-	< 0.000050
Sodium - Total	mg/L		-	-	-	-	1.60
Strontium - Total	mg/L		-	-	-	-	0.0134
Thallium - Total	mg/L		-	-	-	-	< 0.000010
Tin - Total	mg/L		-	-	-	-	< 0.00010
Titanium - Total	mg/L		-	-	-	-	< 0.00030
Uranium - Total	mg/L		-	-	-	-	0.000680
Vanadium - Total	mg/L		-	-	-	-	< 0.00050
Zinc - Total	mg/L		-	-	-	-	< 0.0030
Aluminum - Dissolved	mg/L		-	-	-	-	0.0027
Arsenic - Dissolved	mg/L		-	-	-	-	< 0.00010
Cadmium - Dissolved	mg/L		-	-	-	-	< 0.0000050
Calcium - Dissolved	mg/L		-	-	-	-	20.7
Copper - Dissolved	mg/L		-	-	-	-	0.00094
Iron - Dissolved	mg/L		-	-	-	-	0.026
Lead - Dissolved	mg/L		-	-	-	-	< 0.000050
Magnesium - Dissolved	mg/L		-	-	-	-	12.9
Manganese - Dissolved	mg/L		-	-	-	-	0.00100
Mercury - Dissolved	mg/L		-	-	-	-	< 0.0000050
Molybdenum - Dissolved	mg/L		-	-	-	-	0.000678
Nickel - Dissolved	mg/L		-	-	-	-	0.00106
Potassium - Dissolved	mg/L		-	-	-	-	1.35
Selenium - Dissolved	mg/L		-	-	-	-	< 0.000050
Sodium - Dissolved	mg/L		-	-	-	-	1.45
Thallium - Dissolved	mg/L		-	-	-	-	< 0.000010
Uranium - Dissolved	mg/L		-	-	-	-	0.000615
Zinc - Dissolved	mg/L		-	-	-	-	< 0.0010
Oil and Grease, Total	mg/L		< 5.0	-	-	-	-
Visible Sheen (100=Yes,	None	99	0	0	0	0	0
Phenols	ug/L		-	-	-	-	< 1.0
Phosphorus, Nutrient	mg/L		-	-	-	-	0.0022

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	MS-C-H
			MS-C-H_2023-08-02	MS-C-H_2023-08-08	QD-BT3_2023-08-08	MS-C-H_2023-08-17	MS-C-H_2023-08-22	MS-C-H_2023-08-31
			BF2300190	BF2300214	BF2300214	BF2300227	BF2300234	BF2300251
			2023-08-02	2023-08-08	2023-08-08	2023-08-17	2023-08-22	2023-08-31
			P	P	TB	P	P	P
Analyte	Units	Table 9 Criteria						
Conductivity	umhos/cm		281	-	-	-	-	-
pH, Lab	pH units	9.5	8.38	8.13	6.86	8.04	8.02	7.92
Total Suspended Solids	mg/L	30	< 1.0	< 1.3	< 1.3	< 1.3	< 1.0	< 1.0
Total Dissolved Solids	mg/L		141	159	32	152	162	156
Turbidity	NTU		0.22	0.93	0.40	0.34	0.17	0.65
Ammonia, Total (as N)	mg/L		0.0088	-	-	-	-	-
Nitrate	mg/L		0.231	-	-	-	-	-
Oil and Grease, Total	mg/L		< 5.0	-	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	0	-	0	0	0

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				MQ-C-A	MQ-C-A	MQ-C-A	MQ-C-A	MQ-C-A	MQ-C-A
Field Sample ID				MQ-C-A_2023-08-01	MQ-C-A_2023-08-07	MQ-C-A_2023-08-17	MQ-C-A_2023-08-22	QD-CC2_2023-08-22	MQ-C-A_2023-08-31
ALS Laboratory Work Order				BF2300190	BF2300214	BF2300227	BF2300234	BF2300234	BF2300251
Sample Date				2023-08-01	2023-08-07	2023-08-17	2023-08-22	2023-08-22	2023-08-31
Sample Type				P	P	P	P	FD	P
Analyte	Units	Table 9 Criteria	Table 9 Criteria (Quarry)						
Conductivity	umhos/cm			266	-	-	-	-	-
pH, Lab	pH units	9.5	9.5	8.27	7.98	8.07	7.92	8.08	7.85
Total Suspended Solids	mg/L	30	30	< 1.4	< 1.3	< 1.0	< 1.0	< 1.0	< 1.0
Total Dissolved Solids	mg/L			143	124	185	185	174	173
Turbidity	NTU			0.17	2.48	0.30	0.25	0.29	0.78
Ammonia, Total (as N)	mg/L			< 0.0050	-	-	-	-	-
Nitrate	mg/L			< 0.020	-	-	-	-	-
Oil and Grease, Total	mg/L			< 5.0	-	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	99	0	0	0	0	-	0
Mean Mortality to Daphnia magna	%		50	< 1.0	-	-	-	-	-
Mean Mortality to Rainbow Trout	%		50	< 1.0	-	-	-	-	-

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	MQ-C-B	MQ-C-B	MQ-C-B	MQ-C-B	MQ-C-B	MQ-C-B	MQ-C-B
				Field Sample ID	MQ-C-B_2023-08-01	QD-CC2_2023-08-01	MQ-C-B_2023-08-07	MQ-C-B_2023-08-17	MQ-C-B_2023-08-22	QD-BT3_2023-08-22	MQ-C-B_2023-08-31
				ALS Laboratory Work Order	BF2300190	BF2300190	BF2300214	BF2300227	BF2300234	BF2300234	BF2300251
				Sample Date	2023-08-01	2023-08-01	2023-08-07	2023-08-17	2023-08-22	2023-08-22	2023-08-31
				Sample Type	P	FD	P	P	P	TB	P
Analyte	Units	Table 9 Criteria	Table 9 Criteria (Quarry)								
Conductivity	umhos/cm				418	419	-	-	-	-	-
pH, Lab	pH units	9.5	9.5		8.23	8.25	7.96	8.10	7.95	6.71	7.88
Total Suspended Solids	mg/L	30	30		5.2	4.1	2.7	2.6	< 1.0	< 1.0	< 1.3
Total Dissolved Solids	mg/L				226	231	202	176	170	20	163
Turbidity	NTU				12.6	12.2	7.61	3.08	1.49	0.56	4.86
Ammonia, Total (as N)	mg/L				0.0231	0.0230	-	-	-	-	-
Nitrate	mg/L				2.42	2.45	-	-	-	-	-
Oil and Grease, Total	mg/L				< 5.0	< 5.0	-	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	99		0	-	0	0	0	-	0

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
			MQ-C-D_2023-08-01	MQ-C-D_2023-08-07	MQ-C-D_2023-08-17	MQ-C-D_2023-08-22	MQ-C-D_2023-08-31
			BF2300190	BF2300214	BF2300227	BF2300234	BF2300251
			2023-08-01	2023-08-07	2023-08-17	2023-08-22	2023-08-31
			P	P	P	P	P
Analyte	Units	Table 9 Criteria (Quarry)					
Conductivity	umhos/cm		212	-	-	-	-
pH, Lab	pH units	9.5	8.32	8.03	8.16	7.94	7.77
Total Suspended Solids	mg/L	30	3.1	< 1.3	3.9	3.8	5.7
Total Dissolved Solids	mg/L		107	113	145	139	178
Turbidity	NTU		1.98	4.19	4.20	8.76	17.8
Ammonia, Total (as N)	mg/L		0.0117	-	-	-	-
Nitrate	mg/L		0.028	-	-	-	-
Oil and Grease, Total	mg/L		< 5.0	-	-	-	-
Visible Sheen (100=Yes, 0=No)	None	99	0	0	0	0	0

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-02

Location Name Field Sample ID ALS Laboratory Work Order Sample Date Sample Type			KM105-SWMP-SEEP-02	KM105-SWMP-SEEP-02	KM105-SWMP-SEEP-02
			KM105-SWMP-SEEP-02_2023-08-02	KM105-SWMP-SEEP-02_2023-08-15	KM105-SWMP-SEEP-02_2023-08-29
			BF2300191	BF2300224	BF2300247
			2023-08-02	2023-08-15	2023-08-29
			P	P	P
Analyte	Units	Table 6 Criteria	Group 8 + FDP +	FDP	DEL- delete
Hardness	mg/L		214	306	-
Conductivity	umhos/cm		478	646	699
pH, Lab	pH units	9.5	7.58	7.70	7.73
Total Suspended Solids	mg/L	15	376	173	54.3
Total Dissolved Solids	mg/L		278	390	450
Turbidity	NTU		483	132	47.2
Alkalinity, Total	mg/L		106	106	-
Ammonia, Total (as N)	mg/L		0.0477	0.0318	0.224
Chloride	mg/L		22.0	49.0	-
Fluoride	mg/L		0.139	0.133	-
Nitrate	mg/L		2.32	2.89	-
Total Kjeldahl Nitrogen	mg/L		0.550	0.297	-
Sulfate	mg/L		83.1	124	-
Dissolved Organic Carbon	mg/L		2.64	2.13	-
Total Organic Carbon	mg/L		4.63	2.80	-
Aluminum - Total	mg/L		23.8	6.95	2.44
Antimony - Total	mg/L		< 0.00100	< 0.00010	< 0.00100
Arsenic - Total	mg/L	0.50	0.00149	0.00059	< 0.00100
Barium - Total	mg/L		0.197	0.0840	0.0450
Cadmium - Total	mg/L		0.000352	0.000149	0.000214
Calcium - Total	mg/L		44.0	57.9	59.5
Chromium - Total	mg/L		0.0555	0.0160	0.00594
Cobalt - Total	mg/L		0.0158	0.00471	0.00477
Copper - Total	mg/L	0.30	0.0451	0.0131	0.00661
Iron - Total	mg/L		39.2	11.0	3.92
Lead - Total	mg/L	0.20	0.0172	0.00452	0.00162
Lithium - Total	mg/L		0.0313	0.0160	< 0.0100
Magnesium - Total	mg/L		48.7	43.8	47.4
Manganese - Total	mg/L		0.579	0.158	1.24
Mercury - Total	mg/L		< 0.0000050	< 0.0000050	-
Molybdenum - Total	mg/L		0.0121	0.0173	0.0162
Nickel - Total	mg/L	0.50	0.0528	0.0149	0.00601
Phosphorus, Total	mg/L		< 0.500	0.132	< 0.500
Potassium - Total	mg/L		16.1	12.0	6.54
Selenium - Total	mg/L		0.000598	0.000674	0.00102
Sodium - Total	mg/L		4.49	5.98	10.0
Strontium - Total	mg/L		0.168	0.224	0.173
Thallium - Total	mg/L		0.000407	0.000119	< 0.000100
Tin - Total	mg/L		< 0.00100	0.00029	< 0.00100
Titanium - Total	mg/L		1.14	0.350	0.120
Uranium - Total	mg/L		0.0254	0.0323	0.0173
Vanadium - Total	mg/L		0.0386	0.0116	< 0.00500
Zinc - Total	mg/L	0.50	0.0757	0.0214	< 0.0300
Aluminum - Dissolved	mg/L		0.0091	0.0437	-
Arsenic - Dissolved	mg/L		< 0.00010	0.00010	-
Cadmium - Dissolved	mg/L		0.0000547	0.0000792	-
Calcium - Dissolved	mg/L		42.2	59.3	-
Copper - Dissolved	mg/L		0.00151	0.00195	-
Iron - Dissolved	mg/L		< 0.010	0.058	-
Lead - Dissolved	mg/L		< 0.000050	< 0.000050	-
Magnesium - Dissolved	mg/L		26.3	38.3	-
Manganese - Dissolved	mg/L		0.0737	0.0226	-
Mercury - Dissolved	mg/L		< 0.0000050	< 0.0000050	-
Molybdenum - Dissolved	mg/L		0.0191	0.0193	-
Nickel - Dissolved	mg/L		0.00092	0.00102	-
Potassium - Dissolved	mg/L		7.93	9.94	-
Selenium - Dissolved	mg/L		0.000549	0.000699	-
Sodium - Dissolved	mg/L		4.14	6.05	-
Thallium - Dissolved	mg/L		0.000015	0.000021	-
Uranium - Dissolved	mg/L		0.0190	0.0300	-
Zinc - Dissolved	mg/L		< 0.0010	0.0016	-
Oil and Grease, Total	mg/L		< 5.0	-	-
Visible Sheen (100=Yes, None		99	0	0	0
Mean Mortality to Daphnia	%	50	< 1.0	-	-
Mean Mortality to Rainbow	%	50	< 1.0	-	-
Phosphorus, Nutrient	mg/L		0.345	0.131	-

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 - August 2023. All volumes in m3 unless otherwise stated

DATE	MS-MRY-1 Camp Lake Freshwater for Domestic Use	MS-MRY-1 Camp Lake Freshwater for Industrial Use	MP-MRY-3 Km 32 Lake Milne Port Camp Water Use for Domestic Purposes	MP-MRY-3 Km 32 Lake Milne Port Camp Water Use for Industrial Purposes	MS-01 Treated Sewage Effluent to Discharge Location #1	MS-01B Treated Sewage Effluent to Discharge Location #1	Sewage Sludge Removed from Mine Site WWTPs to Incinerator or Disposal Offsite by Backhaul	Sewage Sludge/Off- Spec Effluent Removed from Mine Site WWTPs to PWSP at Mine Site	Sewage Sludge Removed from Lift Stations to PWSP at Mine Site	MP-01A Treated Sewage Effluent from PWSP to Milne Inlet	MP-01 Treated Sewage Effluent to Milne Inlet	MP-01B Treated Sewage Effluent to Milne Inlet	Sewage Sludge Removed from Milne Port WWTPs to Incinerator or Disposal Offsite by Backhaul	Sewage Sludge Removed from Lift Stations to PWSP at Milne Port	Sludge Removed from Milne Port WWTPs/WTPs to PWSP at Milne Port	Water Use for Dust Suppression from Authorized Sources
1-Aug-23	121.1	0.0	55.5	0.0	0.0	129.8	1.3	0.0	0.0	0.0	24.0	25.1	0.3	0.0	0.0	908.4
2-Aug-23	164.3	0.0	58.7	11.0	0.0	129.5	1.9	0.0	0.0	0.0	24.0	32.8	0.0	0.0	0.0	666.2
3-Aug-23	138.9	0.0	82.5	0.0	0.0	123.6	1.5	0.0	0.0	0.0	24.0	37.1	0.2	0.0	0.0	242.2
4-Aug-23	119.7	0.0	57.7	0.0	0.0	117.2	1.5	0.0	0.0	0.0	24.0	27.2	0.2	0.0	0.0	1123.4
5-Aug-23	107.4	0.0	72.0	0.0	0.0	115.3	1.7	0.0	0.0	0.0	27.0	43.1	0.0	0.0	14.2	545.0
6-Aug-23	127.5	0.0	64.6	0.0	0.0	61.5	1.7	0.0	0.0	0.0	16.0	32.4	0.3	0.0	0.0	799.5
7-Aug-23	109.6	0.0	56.6	0.0	0.0	105.0	1.7	0.0	0.0	0.0	22.0	39.5	0.3	0.0	0.0	666.2
8-Aug-23	127.3	0.0	59.4	0.0	0.0	97.1	1.7	0.0	0.0	0.0	23.0	44.0	0.3	0.0	0.0	514.8
9-Aug-23	126.3	1.0	69.3	0.0	0.0	79.7	1.7	0.0	0.0	0.0	24.0	44.5	0.0	0.0	0.0	545.0
10-Aug-23	113.3	1.0	36.8	0.0	0.0	112.6	1.7	0.0	0.0	0.0	19.0	40.6	0.0	0.0	0.0	545.0
11-Aug-23	91.0	4.1	91.4	0.0	0.0	111.2	1.7	0.0	0.0	0.0	23.0	33.5	0.0	0.0	0.0	423.9
12-Aug-23	110.2	0.0	63.3	0.0	0.0	103.8	1.7	0.0	0.0	0.0	24.0	31.9	0.0	0.0	0.0	757.0
13-Aug-23	100.4	7.2	54.5	0.0	0.0	52.9	1.7	0.0	0.0	0.0	23.0	25.2	0.0	0.0	11.4	575.3
14-Aug-23	108.1	0.0	63.0	0.0	0.0	110.8	3.4	0.0	0.0	0.0	19.0	33.0	0.0	0.0	0.0	0.0
15-Aug-23	127.4	6.2	68.7	0.0	0.0	116.1	2.9	0.0	0.0	0.0	10.0	29.5	0.0	0.0	0.0	0.0
16-Aug-23	120.2	1.0	69.9	0.0	0.0	113.1	2.3	0.0	0.0	0.0	14.0	28.0	0.0	0.0	0.0	0.0
17-Aug-23	112.7	0.0	93.5	0.0	0.0	120.9	1.7	0.0	0.0	0.0	34.0	49.5	0.3	0.0	0.0	121.1
18-Aug-23	127.7	6.2	34.9	0.0	0.0	112.9	1.2	0.0	0.0	0.0	40.0	45.0	0.3	0.0	0.0	212.0
19-Aug-23	156.5	0.0	51.5	0.0	0.0	117.5	0.8	0.0	0.0	0.0	27.0	33.1	0.5	0.0	0.0	60.6
20-Aug-23	124.0	0.0	47.6	0.0	0.0	128.0	0.0	0.0	0.0	0.0	24.0	39.2	0.5	0.0	0.0	0.0
21-Aug-23	113.1	0.0	50.4	0.0	0.0	116.8	0.3	0.0	0.0	0.0	24.0	26.1	0.5	0.0	0.0	0.0
22-Aug-23	133.3	8.4	45.6	0.0	0.0	124.8	0.3	0.0	0.0	0.0	23.0	29.4	0.3	0.0	0.0	0.0
23-Aug-23	123.2	9.4	48.3	0.0	0.0	124.6	0.6	0.0	0.0	0.0	24.0	30.1	0.0	0.0	0.0	0.0
24-Aug-23	129.2	4.1	44.0	0.0	0.0	121.9	1.1	0.0	0.0	0.0	24.0	34.8	0.3	0.0	0.0	0.0
25-Aug-23	123.1	1.0	73.0	0.0	0.0	136.6	0.6	0.0	0.0	0.0	24.0	30.0	0.0	0.0	0.0	0.0
26-Aug-23	110.6	12.3	58.5	0.0	0.0	124.2	1.3	0.0	0.0	0.0	22.0	24.4	0.3	0.0	0.0	0.0
27-Aug-23	116.0	6.2	53.0	0.0	0.0	150.7	1.0	0.0	0.0	0.0	24.0	24.5	0.3	0.0	0.0	0.0
28-Aug-23	112.8	11.1	64.0	0.0	0.0	139.1	1.5	0.0	0.0	0.0	21.0	28.0	0.3	0.0	0.0	90.8
29-Aug-23	83.4	11.9	56.7	0.0	0.0	129.9	1.5	0.0	0.0	0.0	24.0	38.0	0.0	0.0	0.0	393.6
30-Aug-23	175.5	0.0	69.1	0.0	0.0	131.4	1.4	0.0	0.0	0.0	24.0	30.1	0.3	1.0	0.0	242.2
31-Aug-23	102.7	7.4	61.3	0.0	0.0	132.5	1.4	0.0	0.0	0.0	24.0	29.6	0.3	0.0	0.0	454.2
Total	3,756.2	98.6	1,875.4	11.0	0.0	3,591.0	44.6	0.0	0.0	0.0	723.0	1,039.1	5.8	1.0	25.6	9,886.5

Notes:

WWTP - Waste Water Treatment Plant

PWSP - Polishing Waste Stabilization Pond

MS-11 Volume Estimated from Hydrology Station at MS-C-A/B (Installed June 22)

Notes:

Table 3.1: Flow

Table 3.1: Flow and Volume Measurements - Part I Item 11 - August 2023. All volumes in m3 unless otherwise stated

DATE	MS-03 Effluent Discharge from Mine Site Bulk Fuel Storage Facility Stormwater	MS-03B Effluent Discharge from Mine Site Bulk Fuel Storage Facility Stormwater	MS-05 Effluent Discharge from Mine Site Landfarm Facility to Tundra	MS-06 Effluent Discharge from Mine Site Crusher Pad Sedimentation Pond	MS-07 Effluent Discharge from Mine Site Run of Mine Ore Stockpile Pond	MS-08 Effluent Discharge from Mine Site Waste Rock Stockpile Pond	MS-11 Effluent Discharge from KM105 Surface Water Management Pond	MS-MRY-4b Treated Sewage Effluent from PWSP to Sheardown Lake	MS-MRY-6 Treated Oily Water from Exploration Camp Bulk Fuel Storage Facility to Tundra	MP-03 Effluent Discharge from Milne Port Bulk Fuel Tank Farm Facility to Milne Inlet	MP-04 Effluent Discharge from Milne Port Landfarm Facility to Tundra	MP-04A Treated Oily Water from Milne Port Snowdump Facility to Tundra	MP-05 Effluent Discharge from Milne Port Ore Stockpile Sedimentation Pond (East) to Milne Inlet	MP-06 Effluent Discharge from Milne Port Ore Stockpile Sedimentation Pond (West) to Milne Inlet
1-Aug-23	0.0	0.0	0.0	0.0	0.0	4,878.0	1,389.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-Aug-23	0.0	0.0	0.0	0.0	0.0	2,523.0	1,287.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3-Aug-23	0.0	0.0	0.0	0.0	0.0	2,787.0	1,245.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4-Aug-23	0.0	0.0	0.0	0.0	0.0	5,285.0	1,197.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-Aug-23	0.0	0.0	0.0	0.0	0.0	5,552.0	1,201.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-Aug-23	0.0	0.0	0.0	0.0	0.0	4,858.0	1,240.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7-Aug-23	0.0	0.0	0.0	0.0	0.0	2,096.0	1,204.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-Aug-23	0.0	0.0	0.0	0.0	0.0	2,094.0	1,106.4	0.0	3.0	0.0	0.0	0.0	0.0	0.0
9-Aug-23	0.0	0.0	0.0	0.0	0.0	4,114.0	1,039.9	0.0	3.0	0.0	0.0	0.0	0.0	0.0
10-Aug-23	0.0	0.0	0.0	0.0	0.0	1,356.0	1,007.8	0.0	3.1	0.0	0.0	0.0	0.0	0.0
11-Aug-23	0.0	0.0	0.0	0.0	0.0	2,074.0	1,018.5	0.0	7.0	0.0	0.0	0.0	159.9	112.3
12-Aug-23	0.0	0.0	0.0	0.0	0.0	1,861.0	1,010.5	0.0	5.9	0.0	0.0	0.0	0.0	0.0
13-Aug-23	0.0	0.0	0.0	0.0	0.0	2,472.0	1,038.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
14-Aug-23	0.0	0.0	0.0	0.0	0.0	2,063.0	1,557.5	0.0	4.1	0.0	0.0	0.0	522.5	0.0
15-Aug-23	0.0	0.0	0.0	0.0	0.0	0.0	3,222.2	0.0	0.3	0.0	0.0	0.0	660.3	0.0
16-Aug-23	0.0	0.0	0.0	0.0	0.0	0.0	6,749.2	0.0	4.8	0.0	0.0	0.0	302.5	0.0
17-Aug-23	0.0	0.0	0.0	0.0	0.0	0.0	5,381.2	0.0	0.2	0.0	0.0	0.0	319.1	0.0
18-Aug-23	0.0	0.0	0.0	0.0	0.0	557.0	5,087.5	0.0	0.0	0.0	0.0	0.0	809.0	0.0
19-Aug-23	0.0	0.0	0.0	0.0	0.0	849.0	6,797.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Aug-23	0.0	0.0	0.0	0.0	0.0	916.0	9,388.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Aug-23	0.0	0.0	0.0	0.0	0.0	2,108.0	11,099.7	0.0	1.4	0.0	0.0	0.0	0.0	0.0
22-Aug-23	0.0	0.0	0.0	105.0	0.0	1,284.0	9,832.5	0.0	1.4	0.0	0.0	0.0	0.0	0.0
23-Aug-23	0.0	0.0	0.0	133.6	0.0	1,889.0	10,178.9	0.0	0.6	0.0	0.0	0.0	539.8	107.0
24-Aug-23	0.0	0.0	0.0	95.8	0.0	998.0	9,470.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0
25-Aug-23	0.0	0.0	0.0	0.0	0.0	2,989.0	9,323.4	0.0	0.8	0.0	0.0	0.0	0.0	0.0
26-Aug-23	0.0	0.0	0.0	180.8	0.0	4,230.0	9,790.9	0.0	2.2	0.0	0.0	0.0	0.0	101.4
27-Aug-23	0.0	0.0	0.0	0.0	0.0	3,986.0	12,639.5	0.0	1.7	0.0	0.0	0.0	1639.4	0.0
28-Aug-23	0.0	0.0	0.0	0.0	0.0	5,088.0	13,589.8	0.0	1.0	0.0	0.0	0.0	185.3	0.0
29-Aug-23	0.0	0.0	0.0	0.0	0.0	4,835.0	9,664.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30-Aug-23	0.0	0.0	0.0	0.0	0.0	2,803.0	7,865.8	0.0	1.6	0.0	0.0	0.0	0.0	0.0
31-Aug-23	0.0	0.0	0.0	397.7	0.0	5,381.0	6,727.5	0.0	0.8	0.0	0.0	0.0	0.0	0.0
Total	0.0	0.0	0.0	912.9	0.0	81,926.0	163,353.2	0.0	48.2	0.0	0.0	0.0	5,137.8	320.6

WWTP - Waste Water Treatment Plant
PWSP - Polishing Waste Stabilization Pond
MS-11 Volume Estimated from Hydrology Station at MS-C-A/B (Installed June 22)