



Meliadine Gold Mine  
NWB 2AM-MEL1631  
June 2022 Monthly Report

**Prepared for:**  
Nunavut Water Board

**Prepared by:**  
Agnico Eagle Mines Limited – Meliadine Division

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## SECTION 1 • BACKGROUND

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As required under Part I, Item 9 of amended Type A Water License 2AM-MEL1631, this report documents the water management and monitoring activities at the mine site and provides a summary of spills/actions for the month of June 2022.

## SECTION 2 • WATER MANAGEMENT

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### 2.1 WATER USAGE

Table 2.1 details monthly water usage approved under Water License 2AM-MEL1631:

**Table 2.1: Summary of the monthly water usage in June 2022**

|                                                              | Monthly Usage (m <sup>3</sup> ) |
|--------------------------------------------------------------|---------------------------------|
| Camp, Mill, Dust suppression (MEL-11)                        | 35,102                          |
| Dust suppression (water obtained along AWAR/Meliadine River) | 0                               |
| Total June                                                   | 35,102                          |
| Year to date 2022                                            | <b>225,413</b>                  |

In June, 556 m<sup>3</sup> of reclaim water obtained from CP1 was used for dust suppression on site.

### 2.2 DEWATERING ACTIVITIES

No dewatering activities took place during the month.

### 2.3 MELIADINE DISCHARGE

No discharge to Meliadine Lake occurred during the month.

### 2.4 MELVIN BAY DISCHARGE

No discharge to Melvin Bay occurred during the month.

### 2.5 SEEPAGE AND RUNOFF FROM THE LANDFILL AND LANDFARM

The 2AM-MEL1631 landfill and landfarm were commissioned in November 2017. No seepage or runoff was observed during the month.

### 2.6 SEWAGE TREATMENT PLANT

Approximately 4,917 m<sup>3</sup> of treated wastewater was discharged into CP1 during the month. Approximately 19.8 m<sup>3</sup> of sludge was removed during the month. The sludge is either disposed of in WRSF1 or WRSF3.

### 2.7 CONTAINMENTS

Discharge from the Itivia fuel containment facility (Station Mel-25) occurred on June 5<sup>th</sup>, 2022. Approximately 2,521 m<sup>3</sup> was discharged through the discharge period.

## **2.8 MONITORING ANALYTICAL DATA**

Twelve (12) samples related to the Water Licence was taken during the month. The analytical results from these sampling events are presented in Appendix. No exceedance occurred in June 2022.

## **SECTION 3 • MATERIAL MANAGEMENT**

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### **3.1 LANDFILL / LANDFARM**

The volume of material placed into the landfill is evaluated through periodic surveys. According to the most recent survey done on May 4<sup>th</sup>, 2022, the landfill contained approximately 22,119 m<sup>3</sup> of material.

Approximately 0.5 m<sup>3</sup> of contaminated material was put into the Type A Landfarm during the month. According to the most recent survey done on May 9<sup>th</sup>, 2022, the Landfarm A contained approximately 402.3 m<sup>3</sup> of material.

### **3.2 ORE**

Approximately 147,548 tonnes of ore were processed through the Mill during the month.

### **3.3 WASTE ROCK STORAGE FACILITY**

A total of 45,541 tonnes of waste rock was removed in the underground mine development process during the month while 405,975 tonnes of waste rock were removed from open pit mining. 20,047 tonnes were used as underground dry rockfill.

### **3.4 TAILINGS**

129,753 dry tonnes of filtered tailings were sent to the Tailing Storage Facility during the month. 17,795 tonnes of tailings were used for paste underground backfill.

## **SECTION 4 SPILL MANAGEMENT**

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### **4.1 INTERNAL AND REPORTABLE SPILLS**

Spills reported internally (5) are listed in the table 4.1 and were managed according to Agnico Eagle's spill contingency plan. Spills were contained and cleaned up, contaminated material was disposed of in an appropriate manner, and the clean-up actions were monitored closely by the Environment Department. One (1) reportable spill occurred during the month (Refer to the gray shading in Table 4.1).

**Table 4.1: Summary of Agnico Eagle's Spill Reports in June 2022**

| Date and time of occurrence       | If material not listed in dropdown or more details, enter here | Estimated quantity (l) | Exact location of incident | Description of incident                                                                                                                                                                                          | Describe immediate corrective actions                                                                                                                                                                                                                                                                                                                |
|-----------------------------------|----------------------------------------------------------------|------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Friday, June 10, 2022 8:30:00 PM  | Hydrochloric Acid                                              | 10.00                  | In a seacan                | When an operator of a Manitou was trying to lift a hydrochloric acid barrels pallet, the fork of the equipment was set a bit high and kinked the bottom of a barrel, which started dripping on the seacan floor. | A spill tray was used to prevent further spilling. The pallet with the spill tray was brought on top to the detox station in the mills. The barrel was washed until it empty. In the sea can, absorbent pellets were used and disposed of at the detox area in the mill.                                                                             |
| Monday, June 13, 2022 7:00:00 AM  | Untreated Sewage                                               | 25.00                  | WING 2                     | An estimated 25 liters of untreated sewage was spilled to the gravel pad from the Wing 2 lift station when two lift station pumps failed to engage.                                                              | Upon discovery of the spill, a vacuum truck was called to empty the lift station and recover the liquid sewage outside the lift station. The recovered liquid was pumped into the MSB lift station for processing at the sewage treatment plant. The sewage contaminated gravel was scrapped up by a loader and placed in WRSF 1 for final disposal. |
| Tuesday, June 14, 2022 4:30:00 PM | Coolant                                                        | 65.00                  | D-CP1                      | A coolant line failed on an excavator while working on the downstream side of D-CP1.                                                                                                                             | Excavator was stopped immediately. Absorbent pads were used to contain the spill. Contaminated material (coarse rock) was taken out and placed at the Landfarm.                                                                                                                                                                                      |
| Friday, June 17, 2022 4:00:00 PM  | DEF Fluid                                                      | 18.00                  | East of Dome 3             | While attempting to lift a DEF fluid plastic tote, a fork came in contact with the tote and pierced a small hole in the tote near the bottom. Approximately 18 liters of DEF fluid                               | Content of the pierced tote was emptied into another container. Contaminated material was scrapped and placed in a steel container for appropriate disposal.                                                                                                                                                                                         |

|                                    |      |          |                     |                                                                                                               |                                                                                                                                                                                                                                                    |
|------------------------------------|------|----------|---------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    |      |          |                     | leaked out until the content of the pierced tote was emptied into another container.                          |                                                                                                                                                                                                                                                    |
| Saturday, June 18, 2022 1:30:00 PM | Fuel | 1,000.00 | Itivia Fuel Station | While doing a fuel transfer between two fuel tanker, fuel spilled out of the air vent behind the fuel tanker. | The logistics driver immediately shut off all the valves in the correct order to stop the spilling. The spill was contained with absorbent spill pads. The water and fuel mix in the lined area of fuel station was pumped and disposed as hazmat. |

## Appendix – Monitoring Analytical Data

| MEL-11                                   |          | 6/14/2022  |
|------------------------------------------|----------|------------|
| Parameter                                | Unit     |            |
| <b>WQ02- Conventional Parameters</b>     |          |            |
| pH                                       | pH units | 9.84       |
| Turbidity                                | NTU      | 0.1        |
| Specific conductivity                    | umhos/cm | 160        |
| Hardness, as CaCO3                       | mg/L     | 33.1       |
| Total alkalinity, as CaCO3               | mg/L     | 42         |
| Carbonate, as CaCO3                      | mg/L     | 15         |
| Bicarbonate, as CaCO3                    | mg/L     | 23         |
| TDS                                      | mg/L     | 80         |
| TDS, calculated                          | mg/L     | 72         |
| TSS                                      | mg/L     | 1          |
| Total organic carbon                     | mg/L     | 3.9        |
| Dissolved organic carbon                 | mg/L     | 4.0        |
| <b>WQ03- Major Ions</b>                  |          |            |
| Chloride                                 | mg/L     | 18         |
| Cyanide                                  | mg/L     | 0.00085    |
| Cyanide (free)                           | mg/L     | < 0.0020   |
| Cyanide (WAD)                            | mg/L     | 0.00068    |
| Silica                                   | mg/L     | 0.24       |
| Sulfate                                  | mg/L     | 7.0        |
| <b>WQ04- Nutrients and Chlorophyll a</b> |          |            |
| Ammonia Nitrogen (as N)                  | mg/L     | < 0.050    |
| Nitrate (as N)                           | mg/L     | 0.10       |
| Nitrite (as N)                           | mg/L     | < 0.010    |
| Total Kjeldahl nitrogen                  | mg/L     | 0.25       |
| Total phosphorus                         | mg/L     | 0.0015     |
| Orthophosphate (P)                       | mg/L     | < 0.010    |
| <b>WQ06- Total Metals</b>                |          |            |
| Aluminum                                 | mg/L     | 0.0035     |
| Antimony                                 | mg/L     | < 0.00050  |
| Arsenic                                  | mg/L     | 0.00059    |
| Barium                                   | mg/L     | 0.0115     |
| Beryllium                                | mg/L     | < 0.00010  |
| Boron                                    | mg/L     | < 0.050    |
| Cadmium                                  | mg/L     | < 0.000010 |
| Chromium                                 | mg/L     | < 0.0010   |
| Copper                                   | mg/L     | 0.00105    |
| Iron                                     | mg/L     | 0.032      |
| Lead                                     | mg/L     | < 0.00020  |
| Lithium                                  | mg/L     | < 0.0020   |

|                               |      |            |
|-------------------------------|------|------------|
| Manganese                     | mg/L | 0.0049     |
| Mercury                       | mg/L | < 0.00001  |
| Molybdenum                    | mg/L | < 0.0010   |
| Nickel                        | mg/L | < 0.0010   |
| Selenium                      | mg/L | < 0.00010  |
| Silver                        | mg/L | < 0.000020 |
| Strontium                     | mg/L | 0.0615     |
| Thallium                      | mg/L | < 0.000010 |
| Tin                           | mg/L | < 0.0050   |
| Titanium                      | mg/L | < 0.0050   |
| Uranium                       | mg/L | < 0.00010  |
| Vanadium                      | mg/L | < 0.0050   |
| Zinc                          | mg/L | < 0.0050   |
| <b>WQ07- Dissolved Metals</b> |      |            |
| Aluminum                      | mg/L | < 0.0030   |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00053    |
| Barium                        | mg/L | 0.0120     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Calcium (Dissolved)           | mg/L | 10.5       |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00104    |
| Iron                          | mg/L | 0.0087     |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | < 0.0020   |
| Magnesium (Dissolved)         | mg/L | 1.83       |
| Manganese                     | mg/L | 0.0018     |
| Mercury                       | mg/L | < 0.00001  |
| Molybdenum                    | mg/L | < 0.0010   |
| Nickel                        | mg/L | < 0.0010   |
| Potassium (Dissolved)         | mg/L | 1.20       |
| Selenium                      | mg/L | < 0.00010  |
| Silver                        | mg/L | < 0.000020 |
| Sodium (Dissolved)            | mg/L | 7.91       |
| Strontium                     | mg/L | 0.0611     |
| Thallium                      | mg/L | < 0.000010 |
| Tin                           | mg/L | < 0.0050   |
| Titanium                      | mg/L | < 0.0050   |
| Uranium                       | mg/L | < 0.00010  |
| Vanadium                      | mg/L | < 0.0050   |
| Zinc                          | mg/L | < 0.0050   |

| <b>WQ10- Volatile Organics</b> |      |           |
|--------------------------------|------|-----------|
| Benzene                        | mg/L | < 0.00020 |
| Ethylbenzene                   | mg/L | < 0.00020 |
| Toluene                        | mg/L | < 0.00020 |
| Xylenes                        | mg/L | < 0.00040 |
| m,p-Xylenes                    | mg/L | < 0.00040 |
| o-Xylene                       | mg/L | < 0.00020 |
| F1 (C6-C10)-BTEX               | mg/L | < 0.025   |
| F1 (C6-C10)                    | mg/L | < 0.025   |
| F2 (C10-C16)                   | mg/L | < 0.1     |
| F3 (C16-C34)                   | mg/L | < 0.2     |
| F4 (C34-C50)                   | mg/L | < 0.2     |

| <b>MEL-15</b>                            |          | 6/19/2022 |
|------------------------------------------|----------|-----------|
| Parameter                                | Unit     |           |
| <b>WQ02- Conventional Parameters</b>     |          |           |
| pH                                       | pH units | 7.64      |
| Turbidity                                | NTU      | 0.2       |
| Specific conductivity                    | umhos/cm | 110       |
| Hardness, as CaCO <sub>3</sub>           | mg/L     | 41.1      |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L     | 38        |
| Carbonate, as CaCO <sub>3</sub>          | mg/L     | < 1.0     |
| Bicarbonate, as CaCO <sub>3</sub>        | mg/L     | 38        |
| TDS                                      | mg/L     | 55        |
| TDS, calculated                          | mg/L     | 57        |
| TSS                                      | mg/L     | 1         |
| Total organic carbon                     | mg/L     | 4.2       |
| Dissolved organic carbon                 | mg/L     | 4.0       |
| <b>WQ03- Major Ions</b>                  |          |           |
| Chloride                                 | mg/L     | 8.6       |
| Cyanide                                  | mg/L     | 0.00274   |
| Cyanide (free)                           | mg/L     | < 0.0020  |
| Cyanide (WAD)                            | mg/L     | 0.0032    |
| Silica                                   | mg/L     | 0.28      |
| Sulfate                                  | mg/L     | 4.7       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |          |           |
| Ammonia Nitrogen (as N)                  | mg/L     | < 0.050   |
| Nitrate (as N)                           | mg/L     | 0.22      |
| Nitrite (as N)                           | mg/L     | < 0.010   |
| Total Kjeldahl nitrogen                  | mg/L     | 0.25      |
| Total phosphorus                         | mg/L     | < 0.020   |

|                               |      |            |
|-------------------------------|------|------------|
| Orthophosphate (P)            | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b>     |      |            |
| Aluminum                      | mg/L | 0.0044     |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00115    |
| Barium                        | mg/L | 0.0133     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00065    |
| Iron                          | mg/L | 0.071      |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | < 0.0020   |
| Manganese                     | mg/L | 0.0079     |
| Mercury                       | mg/L | < 0.00001  |
| Molybdenum                    | mg/L | < 0.0010   |
| Nickel                        | mg/L | < 0.0010   |
| Selenium                      | mg/L | < 0.00010  |
| Silver                        | mg/L | < 0.000020 |
| Strontium                     | mg/L | 0.0681     |
| Thallium                      | mg/L | < 0.000010 |
| Tin                           | mg/L | < 0.0050   |
| Titanium                      | mg/L | < 0.0050   |
| Uranium                       | mg/L | < 0.00010  |
| Vanadium                      | mg/L | < 0.0050   |
| Zinc                          | mg/L | < 0.0050   |
| <b>WQ07- Dissolved Metals</b> |      |            |
| Aluminum                      | mg/L | < 0.0030   |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00112    |
| Barium                        | mg/L | 0.0125     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Calcium (Dissolved)           | mg/L | 13.6       |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00061    |
| Iron                          | mg/L | 0.0426     |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | < 0.0020   |
| Magnesium (Dissolved)         | mg/L | 1.59       |
| Manganese                     | mg/L | 0.0056     |

|                       |      |            |
|-----------------------|------|------------|
| Mercury               | mg/L | < 0.00001  |
| Molybdenum            | mg/L | < 0.0010   |
| Nickel                | mg/L | < 0.0010   |
| Potassium (Dissolved) | mg/L | 0.918      |
| Selenium              | mg/L | < 0.00010  |
| Silver                | mg/L | < 0.000020 |
| Sodium (Dissolved)    | mg/L | 3.90       |
| Strontium             | mg/L | 0.0676     |
| Thallium              | mg/L | < 0.000010 |
| Tin                   | mg/L | < 0.0050   |
| Titanium              | mg/L | < 0.0050   |
| Uranium               | mg/L | < 0.00010  |
| Vanadium              | mg/L | < 0.0050   |
| Zinc                  | mg/L | < 0.0050   |

| MEL-16                                   |          | 6/19/2022 |
|------------------------------------------|----------|-----------|
| Parameter                                | Unit     |           |
| <b>WQ02- Conventional Parameters</b>     |          |           |
| pH                                       | pH units | 7.29      |
| Turbidity                                | NTU      | 0.2       |
| Specific conductivity                    | umhos/cm | 130       |
| Hardness, as CaCO3                       | mg/L     | 45.4      |
| Total alkalinity, as CaCO3               | mg/L     | 31        |
| Carbonate, as CaCO3                      | mg/L     | < 1.0     |
| Bicarbonate, as CaCO3                    | mg/L     | 31        |
| TDS                                      | mg/L     | 80        |
| TDS, calculated                          | mg/L     | 60        |
| TSS                                      | mg/L     | 1         |
| Total organic carbon                     | mg/L     | 3.9       |
| Dissolved organic carbon                 | mg/L     | 3.3       |
| <b>WQ03- Major Ions</b>                  |          |           |
| Chloride                                 | mg/L     | 16        |
| Cyanide                                  | mg/L     | 0.00081   |
| Cyanide (free)                           | mg/L     | < 0.0020  |
| Cyanide (WAD)                            | mg/L     | 0.00084   |
| Silica                                   | mg/L     | < 0.050   |
| Sulfate                                  | mg/L     | 4.0       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |          |           |
| Ammonia Nitrogen (as N)                  | mg/L     | < 0.050   |
| Nitrate (as N)                           | mg/L     | < 0.10    |
| Nitrite (as N)                           | mg/L     | < 0.010   |

|                               |      |            |
|-------------------------------|------|------------|
| Total Kjeldahl nitrogen       | mg/L | 0.13       |
| Total phosphorus              | mg/L | < 0.020    |
| Orthophosphate (P)            | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b>     |      |            |
| Aluminum                      | mg/L | 0.0069     |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00460    |
| Barium                        | mg/L | 0.0225     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00092    |
| Iron                          | mg/L | 0.082      |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | < 0.0020   |
| Manganese                     | mg/L | 0.0055     |
| Mercury                       | mg/L | < 0.00001  |
| Molybdenum                    | mg/L | < 0.0010   |
| Nickel                        | mg/L | < 0.0010   |
| Selenium                      | mg/L | < 0.00010  |
| Silver                        | mg/L | < 0.000020 |
| Strontium                     | mg/L | 0.0765     |
| Thallium                      | mg/L | < 0.000010 |
| Tin                           | mg/L | < 0.0050   |
| Titanium                      | mg/L | < 0.0050   |
| Uranium                       | mg/L | < 0.00010  |
| Vanadium                      | mg/L | < 0.0050   |
| Zinc                          | mg/L | < 0.0050   |
| <b>WQ07- Dissolved Metals</b> |      |            |
| Aluminum                      | mg/L | 0.0034     |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00381    |
| Barium                        | mg/L | 0.0213     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Calcium (Dissolved)           | mg/L | 14.3       |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00091    |
| Iron                          | mg/L | 0.0489     |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | < 0.0020   |

|                       |      |            |
|-----------------------|------|------------|
| Magnesium (Dissolved) | mg/L | 1.96       |
| Manganese             | mg/L | 0.0039     |
| Mercury               | mg/L | < 0.00001  |
| Molybdenum            | mg/L | < 0.0010   |
| Nickel                | mg/L | < 0.0010   |
| Potassium (Dissolved) | mg/L | 1.07       |
| Selenium              | mg/L | < 0.00010  |
| Silver                | mg/L | < 0.000020 |
| Sodium (Dissolved)    | mg/L | 3.81       |
| Strontium             | mg/L | 0.0739     |
| Thallium              | mg/L | < 0.000010 |
| Tin                   | mg/L | < 0.0050   |
| Titanium              | mg/L | < 0.0050   |
| Uranium               | mg/L | < 0.00010  |
| Vanadium              | mg/L | < 0.0050   |
| Zinc                  | mg/L | < 0.0050   |

| MEL-17                                   |          | 6/19/2022 |
|------------------------------------------|----------|-----------|
| Parameter                                | Unit     |           |
| <b>WQ02- Conventional Parameters</b>     |          |           |
| pH                                       | pH units | 7.29      |
| Turbidity                                | NTU      | 0.7       |
| Specific conductivity                    | umhos/cm | 170       |
| Hardness, as CaCO3                       | mg/L     | 63.0      |
| Total alkalinity, as CaCO3               | mg/L     | 38        |
| Carbonate, as CaCO3                      | mg/L     | < 1.0     |
| Bicarbonate, as CaCO3                    | mg/L     | 38        |
| TDS                                      | mg/L     | 95        |
| TDS, calculated                          | mg/L     | 82        |
| TSS                                      | mg/L     | 2         |
| Total organic carbon                     | mg/L     | 7.4       |
| Dissolved organic carbon                 | mg/L     | 6.5       |
| <b>WQ03- Major Ions</b>                  |          |           |
| Chloride                                 | mg/L     | 21        |
| Cyanide                                  | mg/L     | 0.00102   |
| Cyanide (free)                           | mg/L     | 0.0022    |
| Cyanide (WAD)                            | mg/L     | 0.0014    |
| Silica                                   | mg/L     | 0.74      |
| Sulfate                                  | mg/L     | 8.2       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |          |           |
| Ammonia Nitrogen (as N)                  | mg/L     | 0.073     |

|                               |      |            |
|-------------------------------|------|------------|
| Nitrate (as N)                | mg/L | < 0.10     |
| Nitrite (as N)                | mg/L | < 0.010    |
| Total Kjeldahl nitrogen       | mg/L | 0.34       |
| Total phosphorus              | mg/L | < 0.020    |
| Orthophosphate (P)            | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b>     |      |            |
| Aluminum                      | mg/L | 0.0056     |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00102    |
| Barium                        | mg/L | 0.0217     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00099    |
| Iron                          | mg/L | 0.203      |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | 0.0027     |
| Manganese                     | mg/L | 0.0291     |
| Mercury                       | mg/L | < 0.00001  |
| Molybdenum                    | mg/L | < 0.0010   |
| Nickel                        | mg/L | 0.0013     |
| Selenium                      | mg/L | < 0.00010  |
| Silver                        | mg/L | < 0.000020 |
| Strontium                     | mg/L | 0.139      |
| Thallium                      | mg/L | < 0.000010 |
| Tin                           | mg/L | < 0.0050   |
| Titanium                      | mg/L | < 0.0050   |
| Uranium                       | mg/L | < 0.00010  |
| Vanadium                      | mg/L | < 0.0050   |
| Zinc                          | mg/L | < 0.0050   |
| <b>WQ07- Dissolved Metals</b> |      |            |
| Aluminum                      | mg/L | 0.0039     |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00093    |
| Barium                        | mg/L | 0.0189     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Calcium (Dissolved)           | mg/L | 19.2       |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00102    |
| Iron                          | mg/L | 0.120      |

|                       |      |            |
|-----------------------|------|------------|
| Lead                  | mg/L | < 0.00020  |
| Lithium               | mg/L | 0.0027     |
| Magnesium (Dissolved) | mg/L | 2.38       |
| Manganese             | mg/L | 0.0195     |
| Mercury               | mg/L | < 0.00001  |
| Molybdenum            | mg/L | < 0.0010   |
| Nickel                | mg/L | 0.0011     |
| Potassium (Dissolved) | mg/L | 1.54       |
| Selenium              | mg/L | < 0.00010  |
| Silver                | mg/L | < 0.000020 |
| Sodium (Dissolved)    | mg/L | 6.27       |
| Strontium             | mg/L | 0.138      |
| Thallium              | mg/L | < 0.000010 |
| Tin                   | mg/L | < 0.0050   |
| Titanium              | mg/L | < 0.0050   |
| Uranium               | mg/L | < 0.00010  |
| Vanadium              | mg/L | < 0.0050   |
| Zinc                  | mg/L | < 0.0050   |

| MEL-18                                 |          | 6/19/2022 |
|----------------------------------------|----------|-----------|
| Parameter                              | Unit     |           |
| <b>WQ02- Conventional Parameters</b>   |          |           |
| pH                                     | pH units | 7.19      |
| Turbidity                              | NTU      | 0.3       |
| Specific conductivity                  | umhos/cm | 150       |
| Hardness, as CaCO <sub>3</sub>         | mg/L     | 57.3      |
| Total alkalinity, as CaCO <sub>3</sub> | mg/L     | 34        |
| Carbonate, as CaCO <sub>3</sub>        | mg/L     | < 1.0     |
| Bicarbonate, as CaCO <sub>3</sub>      | mg/L     | 34        |
| TDS                                    | mg/L     | 100       |
| TDS, calculated                        | mg/L     | 74        |
| TSS                                    | mg/L     | 2         |
| Total organic carbon                   | mg/L     | 3.4       |
| Dissolved organic carbon               | mg/L     | 3.3       |
| <b>WQ03- Major Ions</b>                |          |           |
| Chloride                               | mg/L     | 21        |
| Cyanide                                | mg/L     | 0.00171   |
| Cyanide (free)                         | mg/L     | < 0.0020  |
| Cyanide (WAD)                          | mg/L     | 0.00067   |
| Silica                                 | mg/L     | < 0.050   |
| Sulfate                                | mg/L     | 6.6       |

| <b>WQ04- Nutrients and Chlorophyll a</b> |      |            |
|------------------------------------------|------|------------|
| Ammonia Nitrogen (as N)                  | mg/L | < 0.050    |
| Nitrate (as N)                           | mg/L | < 0.10     |
| Nitrite (as N)                           | mg/L | < 0.010    |
| Total Kjeldahl nitrogen                  | mg/L | 0.18       |
| Total phosphorus                         | mg/L | < 0.020    |
| Orthophosphate (P)                       | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b>                |      |            |
| Aluminum                                 | mg/L | 0.0064     |
| Antimony                                 | mg/L | < 0.00050  |
| Arsenic                                  | mg/L | 0.00208    |
| Barium                                   | mg/L | 0.0182     |
| Beryllium                                | mg/L | < 0.00010  |
| Boron                                    | mg/L | < 0.050    |
| Cadmium                                  | mg/L | < 0.000010 |
| Chromium                                 | mg/L | < 0.0010   |
| Copper                                   | mg/L | 0.00075    |
| Iron                                     | mg/L | 0.223      |
| Lead                                     | mg/L | < 0.00020  |
| Lithium                                  | mg/L | 0.0076     |
| Manganese                                | mg/L | 0.0081     |
| Mercury                                  | mg/L | < 0.00001  |
| Molybdenum                               | mg/L | < 0.0010   |
| Nickel                                   | mg/L | < 0.0010   |
| Selenium                                 | mg/L | < 0.00010  |
| Silver                                   | mg/L | < 0.000020 |
| Strontium                                | mg/L | 0.135      |
| Thallium                                 | mg/L | < 0.000010 |
| Tin                                      | mg/L | < 0.0050   |
| Titanium                                 | mg/L | < 0.0050   |
| Uranium                                  | mg/L | < 0.00010  |
| Vanadium                                 | mg/L | < 0.0050   |
| Zinc                                     | mg/L | < 0.0050   |
| <b>WQ07- Dissolved Metals</b>            |      |            |
| Aluminum                                 | mg/L | 0.0067     |
| Antimony                                 | mg/L | < 0.00050  |
| Arsenic                                  | mg/L | 0.00177    |
| Barium                                   | mg/L | 0.0170     |
| Beryllium                                | mg/L | < 0.00010  |
| Boron                                    | mg/L | < 0.050    |
| Cadmium                                  | mg/L | < 0.000010 |
| Calcium (Dissolved)                      | mg/L | 18.2       |
| Chromium                                 | mg/L | < 0.0010   |

|                       |      |            |
|-----------------------|------|------------|
| Copper                | mg/L | 0.00119    |
| Iron                  | mg/L | 0.0725     |
| Lead                  | mg/L | < 0.00020  |
| Lithium               | mg/L | 0.0078     |
| Magnesium (Dissolved) | mg/L | 2.31       |
| Manganese             | mg/L | 0.0058     |
| Mercury               | mg/L | < 0.00001  |
| Molybdenum            | mg/L | < 0.0010   |
| Nickel                | mg/L | < 0.0010   |
| Potassium (Dissolved) | mg/L | 1.05       |
| Selenium              | mg/L | < 0.00010  |
| Silver                | mg/L | < 0.000020 |
| Sodium (Dissolved)    | mg/L | 4.50       |
| Strontium             | mg/L | 0.134      |
| Thallium              | mg/L | < 0.000010 |
| Tin                   | mg/L | < 0.0050   |
| Titanium              | mg/L | < 0.0050   |
| Uranium               | mg/L | < 0.00010  |
| Vanadium              | mg/L | < 0.0050   |
| Zinc                  | mg/L | < 0.0050   |

| MEL-19                                   |          | 6/19/2022 |
|------------------------------------------|----------|-----------|
| Parameter                                | Unit     |           |
| <b>WQ02- Conventional Parameters</b>     |          |           |
| pH                                       | pH units | 7.93      |
| Turbidity                                | NTU      | 43        |
| Hardness, as CaCO <sub>3</sub>           | mg/L     | 206       |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L     | 97        |
| TDS                                      | mg/L     | 590       |
| TDS, calculated                          | mg/L     | 550       |
| TSS                                      | mg/L     | 15        |
| <b>WQ03- Major Ions</b>                  |          |           |
| Chloride                                 | mg/L     | 170       |
| Cyanide                                  | mg/L     | 0.00559   |
| Fluoride                                 | mg/L     | 0.14      |
| Silica                                   | mg/L     | 4.1       |
| Sulfate                                  | mg/L     | 120       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |          |           |
| Ammonia Nitrogen (as N)                  | mg/L     | 2.2       |
| Nitrate (as N)                           | mg/L     | 3.42      |
| Nitrite (as N)                           | mg/L     | 0.134     |

|                               |      |            |
|-------------------------------|------|------------|
| Total phosphorus              | mg/L | 0.050      |
| Orthophosphate (P)            | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b>     |      |            |
| Aluminum                      | mg/L | 1.11       |
| Arsenic                       | mg/L | 0.0198     |
| Barium                        | mg/L | 0.0401     |
| Cadmium                       | mg/L | 0.000016   |
| Chromium                      | mg/L | 0.0030     |
| Copper                        | mg/L | 0.0117     |
| Iron                          | mg/L | 1.74       |
| Lead                          | mg/L | 0.00162    |
| Manganese                     | mg/L | 0.0513     |
| Mercury                       | mg/L | < 0.00001  |
| Molybdenum                    | mg/L | 0.0047     |
| Nickel                        | mg/L | 0.0210     |
| Selenium                      | mg/L | 0.00053    |
| Silver                        | mg/L | < 0.000020 |
| Thallium                      | mg/L | 0.000039   |
| Zinc                          | mg/L | < 0.0050   |
| <b>WQ07- Dissolved Metals</b> |      |            |
| Calcium (Dissolved)           | mg/L | 54.1       |
| Magnesium (Dissolved)         | mg/L | 14.1       |
| Potassium (Dissolved)         | mg/L | 15.2       |
| Sodium (Dissolved)            | mg/L | 106        |

| MEL-20                                 |          | 6/19/2022 |
|----------------------------------------|----------|-----------|
| Parameter                              | Unit     |           |
| <b>WQ02- Conventional Parameters</b>   |          |           |
| pH                                     | pH units | 7.69      |
| Turbidity                              | NTU      | 17        |
| Hardness, as CaCO <sub>3</sub>         | mg/L     | 328       |
| Total alkalinity, as CaCO <sub>3</sub> | mg/L     | 64        |
| TDS                                    | mg/L     | 1250      |
| TDS, calculated                        | mg/L     | 1100      |
| TSS                                    | mg/L     | 28        |
| <b>WQ03- Major Ions</b>                |          |           |
| Chloride                               | mg/L     | 440       |
| Cyanide                                | mg/L     | 0.00914   |
| Fluoride                               | mg/L     | 0.13      |
| Silica                                 | mg/L     | 2.0       |
| Sulfate                                | mg/L     | 200       |

| <b>WQ04- Nutrients and Chlorophyll a</b> |      |           |
|------------------------------------------|------|-----------|
| Ammonia Nitrogen (as N)                  | mg/L | 7.5       |
| Nitrate (as N)                           | mg/L | 15.8      |
| Nitrite (as N)                           | mg/L | 0.142     |
| Total phosphorus                         | mg/L | 0.030     |
| Orthophosphate (P)                       | mg/L | 0.011     |
| <b>WQ06- Total Metals</b>                |      |           |
| Aluminum                                 | mg/L | 0.400     |
| Arsenic                                  | mg/L | 0.0830    |
| Barium                                   | mg/L | 0.0366    |
| Cadmium                                  | mg/L | 0.000062  |
| Chromium                                 | mg/L | < 0.0010  |
| Copper                                   | mg/L | 0.00582   |
| Iron                                     | mg/L | 0.852     |
| Lead                                     | mg/L | 0.0123    |
| Manganese                                | mg/L | 0.320     |
| Mercury                                  | mg/L | < 0.00001 |
| Molybdenum                               | mg/L | 0.0033    |
| Nickel                                   | mg/L | 0.0259    |
| Selenium                                 | mg/L | 0.00111   |
| Silver                                   | mg/L | 0.000021  |
| Thallium                                 | mg/L | 0.000017  |
| Zinc                                     | mg/L | < 0.0050  |
| <b>WQ07- Dissolved Metals</b>            |      |           |
| Calcium (Dissolved)                      | mg/L | 88.0      |
| Magnesium (Dissolved)                    | mg/L | 32.3      |
| Potassium (Dissolved)                    | mg/L | 15.1      |
| Sodium (Dissolved)                       | mg/L | 238       |

| <b>MEL-21</b>                          |          | 6/19/2022 |
|----------------------------------------|----------|-----------|
| Parameter                              | Unit     |           |
| <b>WQ02- Conventional Parameters</b>   |          |           |
| pH                                     | pH units | 7.67      |
| Turbidity                              | NTU      | 13        |
| Hardness, as CaCO <sub>3</sub>         | mg/L     | 816       |
| Total alkalinity, as CaCO <sub>3</sub> | mg/L     | 110       |
| TDS                                    | mg/L     | 2220      |
| TDS, calculated                        | mg/L     | 2000      |
| TSS                                    | mg/L     | 34        |
| <b>WQ03- Major Ions</b>                |          |           |
| Chloride                               | mg/L     | 840       |

|                                          |      |            |
|------------------------------------------|------|------------|
| Cyanide                                  | mg/L | 0.0253     |
| Fluoride                                 | mg/L | 0.15       |
| Silica                                   | mg/L | 5.3        |
| Sulfate                                  | mg/L | 390        |
| <b>WQ04- Nutrients and Chlorophyll a</b> |      |            |
| Ammonia Nitrogen (as N)                  | mg/L | 0.98       |
| Nitrate (as N)                           | mg/L | 14.4       |
| Nitrite (as N)                           | mg/L | 0.084      |
| Total phosphorus                         | mg/L | < 0.020    |
| Orthophosphate (P)                       | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b>                |      |            |
| Aluminum                                 | mg/L | 0.526      |
| Arsenic                                  | mg/L | 0.0789     |
| Barium                                   | mg/L | 0.110      |
| Cadmium                                  | mg/L | 0.000072   |
| Chromium                                 | mg/L | < 0.0020   |
| Copper                                   | mg/L | 0.0092     |
| Iron                                     | mg/L | 1.30       |
| Lead                                     | mg/L | 0.00863    |
| Manganese                                | mg/L | 0.549      |
| Mercury                                  | mg/L | < 0.00001  |
| Molybdenum                               | mg/L | 0.0084     |
| Nickel                                   | mg/L | 0.0337     |
| Selenium                                 | mg/L | 0.00114    |
| Silver                                   | mg/L | < 0.000040 |
| Thallium                                 | mg/L | 0.000025   |
| Zinc                                     | mg/L | < 0.010    |
| <b>WQ07- Dissolved Metals</b>            |      |            |
| Calcium (Dissolved)                      | mg/L | 199        |
| Magnesium (Dissolved)                    | mg/L | 66.5       |
| Potassium (Dissolved)                    | mg/L | 25.2       |
| Sodium (Dissolved)                       | mg/L | 385        |

|                                      |             |           |
|--------------------------------------|-------------|-----------|
| <b>MEL-22</b>                        |             | 6/19/2022 |
| <b>Parameter</b>                     | <b>Unit</b> |           |
| <b>WQ02- Conventional Parameters</b> |             |           |
| pH                                   | pH units    | 7.75      |
| Turbidity                            | NTU         | 0.3       |
| Hardness, as CaCO3                   | mg/L        | 983       |
| Total alkalinity, as CaCO3           | mg/L        | 76        |
| TDS                                  | mg/L        | 2490      |

|                                          |      |            |
|------------------------------------------|------|------------|
| TDS, calculated                          | mg/L | 2200       |
| TSS                                      | mg/L | 3          |
| <b>WQ03- Major Ions</b>                  |      |            |
| Chloride                                 | mg/L | 1100       |
| Cyanide                                  | mg/L | 0.00142    |
| Fluoride                                 | mg/L | < 0.10     |
| Silica                                   | mg/L | 1.5        |
| Sulfate                                  | mg/L | 280        |
| <b>WQ04- Nutrients and Chlorophyll a</b> |      |            |
| Ammonia Nitrogen (as N)                  | mg/L | 1.2        |
| Nitrate (as N)                           | mg/L | 4.33       |
| Nitrite (as N)                           | mg/L | 0.134      |
| Total phosphorus                         | mg/L | 0.021      |
| Orthophosphate (P)                       | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b>                |      |            |
| Aluminum                                 | mg/L | 0.0100     |
| Arsenic                                  | mg/L | 0.00318    |
| Barium                                   | mg/L | 0.0673     |
| Cadmium                                  | mg/L | 0.000033   |
| Chromium                                 | mg/L | < 0.0020   |
| Copper                                   | mg/L | 0.0029     |
| Iron                                     | mg/L | 0.065      |
| Lead                                     | mg/L | < 0.00040  |
| Manganese                                | mg/L | 0.300      |
| Mercury                                  | mg/L | < 0.00001  |
| Molybdenum                               | mg/L | 0.0057     |
| Nickel                                   | mg/L | 0.0203     |
| Selenium                                 | mg/L | 0.00031    |
| Silver                                   | mg/L | < 0.000040 |
| Thallium                                 | mg/L | 0.000055   |
| Zinc                                     | mg/L | < 0.010    |
| <b>WQ07- Dissolved Metals</b>            |      |            |
| Calcium (Dissolved)                      | mg/L | 276        |
| Magnesium (Dissolved)                    | mg/L | 65.5       |
| Potassium (Dissolved)                    | mg/L | 28.6       |
| Sodium (Dissolved)                       | mg/L | 362        |

|                                      |             |           |
|--------------------------------------|-------------|-----------|
| <b>MEL-23</b>                        |             | 6/19/2022 |
|                                      |             |           |
| <b>Parameter</b>                     | <b>Unit</b> |           |
| <b>WQ02- Conventional Parameters</b> |             |           |
| pH                                   | pH units    | 7.58      |

|                                          |      |            |
|------------------------------------------|------|------------|
| Turbidity                                | NTU  | 5.7        |
| Hardness, as CaCO <sub>3</sub>           | mg/L | 218        |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L | 44         |
| TDS                                      | mg/L | 715        |
| TDS, calculated                          | mg/L | 630        |
| TSS                                      | mg/L | 13         |
| <b>WQ03- Major Ions</b>                  |      |            |
| Chloride                                 | mg/L | 210        |
| Cyanide                                  | mg/L | 0.00181    |
| Fluoride                                 | mg/L | < 0.10     |
| Silica                                   | mg/L | 1.3        |
| Sulfate                                  | mg/L | 160        |
| <b>WQ04- Nutrients and Chlorophyll a</b> |      |            |
| Ammonia Nitrogen (as N)                  | mg/L | 2.7        |
| Nitrate (as N)                           | mg/L | 5.85       |
| Nitrite (as N)                           | mg/L | 0.089      |
| Total phosphorus                         | mg/L | < 0.020    |
| Orthophosphate (P)                       | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b>                |      |            |
| Aluminum                                 | mg/L | 0.251      |
| Arsenic                                  | mg/L | 0.00842    |
| Barium                                   | mg/L | 0.0197     |
| Cadmium                                  | mg/L | 0.000037   |
| Chromium                                 | mg/L | < 0.0010   |
| Copper                                   | mg/L | 0.00255    |
| Iron                                     | mg/L | 0.477      |
| Lead                                     | mg/L | 0.00139    |
| Manganese                                | mg/L | 0.154      |
| Mercury                                  | mg/L | < 0.00001  |
| Molybdenum                               | mg/L | 0.0037     |
| Nickel                                   | mg/L | 0.0275     |
| Selenium                                 | mg/L | 0.00053    |
| Silver                                   | mg/L | < 0.000020 |
| Thallium                                 | mg/L | 0.000016   |
| Zinc                                     | mg/L | < 0.0050   |
| <b>WQ07- Dissolved Metals</b>            |      |            |
| Calcium (Dissolved)                      | mg/L | 46.1       |
| Magnesium (Dissolved)                    | mg/L | 22.7       |
| Potassium (Dissolved)                    | mg/L | 13.2       |
| Sodium (Dissolved)                       | mg/L | 129        |

| MEL-SR1                                  | MEL-SR MAX<br>GRAB<br>(WSEEP/RO) | MEL-SR MAX<br>MEAN<br>(WSEEP/RO) | Sample date<br>Sample type | 6/10/2022  |
|------------------------------------------|----------------------------------|----------------------------------|----------------------------|------------|
| Parameter                                |                                  |                                  | Unit                       |            |
| <b>WQ01- Field Measured</b>              |                                  |                                  |                            |            |
| Turbidity                                |                                  |                                  | NTU                        | 2.01       |
| <b>WQ02- Conventional Parameters</b>     |                                  |                                  |                            |            |
| pH                                       | 9.5                              | 9.5                              | pH units                   | 8.12       |
| Turbidity                                |                                  |                                  | NTU                        | 0.2        |
| Hardness, as CaCO <sub>3</sub>           |                                  |                                  | mg/L                       | 186        |
| Total alkalinity, as CaCO <sub>3</sub>   |                                  |                                  | mg/L                       | 120        |
| TDS                                      |                                  |                                  | mg/L                       | 340        |
| TDS, calculated                          |                                  |                                  | mg/L                       | 300        |
| TSS                                      | 100                              | 50                               | mg/L                       | 1          |
| <b>WQ03- Major Ions</b>                  |                                  |                                  |                            |            |
| Chloride                                 |                                  |                                  | mg/L                       | 74         |
| Cyanide                                  |                                  |                                  | mg/L                       | < 0.00050  |
| Fluoride                                 |                                  |                                  | mg/L                       | 0.11       |
| Silica                                   |                                  |                                  | mg/L                       | 0.69       |
| Sulfate                                  |                                  |                                  | mg/L                       | 52         |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                                  |                                  |                            |            |
| Ammonia Nitrogen (as N)                  |                                  |                                  | mg/L                       | < 0.050    |
| Nitrate (as N)                           |                                  |                                  | mg/L                       | < 0.10     |
| Nitrite (as N)                           |                                  |                                  | mg/L                       | < 0.010    |
| Total phosphorus                         |                                  |                                  | mg/L                       | 0.0019     |
| Orthophosphate (P)                       |                                  |                                  | mg/L                       | < 0.010    |
| <b>WQ05- General Organics</b>            |                                  |                                  |                            |            |
| Total oil and grease                     |                                  |                                  | mg/L                       | < 0.50     |
| <b>WQ06- Total Metals</b>                |                                  |                                  |                            |            |
| Aluminum                                 |                                  |                                  | mg/L                       | 0.0169     |
| Arsenic                                  |                                  |                                  | mg/L                       | 0.00131    |
| Barium                                   |                                  |                                  | mg/L                       | 0.0303     |
| Cadmium                                  |                                  |                                  | mg/L                       | < 0.000010 |
| Chromium                                 |                                  |                                  | mg/L                       | < 0.0010   |
| Copper                                   |                                  |                                  | mg/L                       | 0.00261    |
| Iron                                     |                                  |                                  | mg/L                       | 0.037      |
| Lead                                     |                                  |                                  | mg/L                       | < 0.00020  |
| Manganese                                |                                  |                                  | mg/L                       | 0.0076     |
| Mercury                                  |                                  |                                  | mg/L                       | < 0.00001  |
| Molybdenum                               |                                  |                                  | mg/L                       | 0.0010     |
| Nickel                                   |                                  |                                  | mg/L                       | 0.0062     |
| Selenium                                 |                                  |                                  | mg/L                       | < 0.00010  |
| Silver                                   |                                  |                                  | mg/L                       | < 0.000020 |

|                               |  |  |      |            |
|-------------------------------|--|--|------|------------|
| Thallium                      |  |  | mg/L | < 0.000010 |
| Zinc                          |  |  | mg/L | 0.0257     |
| <b>WQ07- Dissolved Metals</b> |  |  |      |            |
| Calcium (Dissolved)           |  |  | mg/L | 60.7       |
| Magnesium (Dissolved)         |  |  | mg/L | 9.35       |
| Potassium (Dissolved)         |  |  | mg/L | 5.54       |
| Sodium (Dissolved)            |  |  | mg/L | 28.8       |

| <b>MEL-SR13</b>                          | <b>MEL-SR MAX GRAB (WSEEP/RO)</b> | <b>MEL-SR MAX MEAN (WSEEP/RO)</b> | <b>Sample date</b> | 6/10/2022  |
|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|------------|
| <b>Parameter</b>                         |                                   |                                   | <b>Sample type</b> |            |
|                                          |                                   |                                   | <b>Unit</b>        |            |
| <b>WQ01- Field Measured</b>              |                                   |                                   |                    |            |
| Turbidity                                |                                   |                                   | NTU                | 12.8       |
| <b>WQ02- Conventional Parameters</b>     |                                   |                                   |                    |            |
| pH                                       | 9.5                               | 9.5                               | pH units           | 7.55       |
| Turbidity                                |                                   |                                   | NTU                | 3.8        |
| Hardness, as CaCO3                       |                                   |                                   | mg/L               | 22.5       |
| Total alkalinity, as CaCO3               |                                   |                                   | mg/L               | 25         |
| TDS                                      |                                   |                                   | mg/L               | 50         |
| TDS, calculated                          |                                   |                                   | mg/L               | 83         |
| TSS                                      | 100                               | 50                                | mg/L               | 12         |
| <b>WQ03- Major Ions</b>                  |                                   |                                   |                    |            |
| Chloride                                 |                                   |                                   | mg/L               | 4.7        |
| Cyanide                                  |                                   |                                   | mg/L               | < 0.00050  |
| Fluoride                                 |                                   |                                   | mg/L               | < 0.10     |
| Silica                                   |                                   |                                   | mg/L               | 0.69       |
| Sulfate                                  |                                   |                                   | mg/L               | 51         |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                                   |                                   |                    |            |
| Ammonia Nitrogen (as N)                  |                                   |                                   | mg/L               | < 0.050    |
| Nitrate (as N)                           |                                   |                                   | mg/L               | < 0.10     |
| Nitrite (as N)                           |                                   |                                   | mg/L               | < 0.010    |
| Total phosphorus                         |                                   |                                   | mg/L               | 0.011      |
| Orthophosphate (P)                       |                                   |                                   | mg/L               | < 0.010    |
| <b>WQ05- General Organics</b>            |                                   |                                   |                    |            |
| Total oil and grease                     |                                   |                                   | mg/L               | < 0.50     |
| <b>WQ06- Total Metals</b>                |                                   |                                   |                    |            |
| Aluminum                                 |                                   |                                   | mg/L               | 0.195      |
| Arsenic                                  |                                   |                                   | mg/L               | 0.00235    |
| Barium                                   |                                   |                                   | mg/L               | 0.0071     |
| Cadmium                                  |                                   |                                   | mg/L               | < 0.000010 |
| Chromium                                 |                                   |                                   | mg/L               | 0.0016     |
| Copper                                   |                                   |                                   | mg/L               | 0.00307    |

|                               |  |  |      |            |
|-------------------------------|--|--|------|------------|
| Iron                          |  |  | mg/L | 0.474      |
| Lead                          |  |  | mg/L | 0.00069    |
| Manganese                     |  |  | mg/L | 0.0164     |
| Mercury                       |  |  | mg/L | < 0.00001  |
| Molybdenum                    |  |  | mg/L | < 0.0010   |
| Nickel                        |  |  | mg/L | 0.0018     |
| Selenium                      |  |  | mg/L | < 0.00010  |
| Silver                        |  |  | mg/L | < 0.000020 |
| Thallium                      |  |  | mg/L | < 0.000010 |
| Zinc                          |  |  | mg/L | 0.0084     |
| <b>WQ07- Dissolved Metals</b> |  |  |      |            |
| Calcium (Dissolved)           |  |  | mg/L | 7.06       |
| Magnesium (Dissolved)         |  |  | mg/L | 1.07       |
| Potassium (Dissolved)         |  |  | mg/L | 0.890      |
| Sodium (Dissolved)            |  |  | mg/L | 3.36       |