



Meliadine Gold Project  
NWB 2AM-MEL1631  
August 2021 Monthly Report

**Prepared for:**

Nunavut Water Board

**Prepared by:**

Agnico Eagle Mines Limited – Meliadine Division

September 2021

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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 August 2021.

## 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 Agnico's monthly water usage in August 2021**

|                                  | Monthly Usage (m <sup>3</sup> ) |
|----------------------------------|---------------------------------|
| Camp, Mill and Drilling (MEL-11) | 36,164                          |
| Dust suppression                 | 0                               |
| Total August                     | <b>36,164</b>                   |
| Year to date 2021                | <b>301,621</b>                  |

### 2.2 DEWATERING ACTIVITIES

No dewatering activities took place in August 2021.

### 2.3 MELIADINE DISCHARGE

Discharge from the EWTP into Meliadine Lake via the Final Discharge Point (MEL-14) started July 13<sup>th</sup> 2021. A total of 397,398 m<sup>3</sup> was discharged throughout August.

### 2.4 MELVIN BAY DISCHARGE

Discharge of treated saline effluent into Melvin Bay via the Final Discharge Point (MEL-26) started on August 12<sup>th</sup> 2021. A total of 9,820 m<sup>3</sup> was discharged throughout 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 in August 2021.

### 2.6 SEWAGE TREATMENT PLANT

In August 2021, 5,062 m<sup>3</sup> of treated wastewater was discharged into CP1. The majority of the sludge is disposed of in the WRSF.

### 2.7 CONTAINMENTS

Discharge from the Itivia fuel containment facility (Station Mel-25) occurred on August 3<sup>rd</sup>, 2021. Approximately 440 m<sup>3</sup> was discharged through the discharge period.

## 2.8 MONITORING ANALYTICAL DATA

In August 2021, 27 samples related to the Water Licence were taken. See below the analytical results from these sampling events. Two exceedances occurred in August 2021.

Due to rainfall on August 12, 2021 high TSS runoff migrated from Rankin Inlet industrial area through the Agnico Eagle Itivia site releasing through MEL-SR-01 sampling station, flowing towards Melvin Bay. Laboratory results for this area, received September 9, 2021, indicated TSS concentration of 300 mg/L, exceeding the maximum grab sample concentration of 100 mg/L, as per the Water License 2AM-MEL1631, Part D, item 18. Sediment control logs are in place upstream and downstream to provide protection during rainfall events however these mitigating measures were found to be insufficient during this event. MEL-SR-01 will continue to be closely monitored for TSS. A review of the current sediment control system will be completed and increased measures (silt fence, sedimentation bag) will be implemented as required.

At approximately 8:00 AM on August 22, 2021 the Environment Department was notified that an unapproved trench had been cut within an overburden excavation zone of the Tiriganiaq Open Pit 1 expansion area. The workers involved cut the trench in order to divert water, which had accumulated due to heavy rainfall, away from the excavation zone. Turbid water flowing in the trench was directed towards accumulated water along the access road, which lies in the footprint of the future Tiriganiaq Open Pit 1. A plume of turbid water began flowing downstream into pond A40, before mitigation measures were able to be deployed. The immediate corrective action was to install sediment controls logs and fence, which took effect right away. In order to ensure similar occurrences do not happen during future heavy rain periods, the accumulated water upstream of A40 will be captured and returned onsite to be managed by existing site water management infrastructure. Furthermore, an education campaign is being developed with the purpose of providing an overview of the regulatory obligations of the water license, and Fisheries Act. Meetings will be held with managers and supervisors of various key departments so that all parties can improve their understanding and communications regarding water movements at Meliadine.

| MEL-11                                 | Sample date | 8/16/2021 |
|----------------------------------------|-------------|-----------|
| Parameter                              | Unit        |           |
| <b>WQ02- Conventional Parameters</b>   |             |           |
| pH                                     | pH units    | 7.60      |
| Turbidity                              | NTU         | 0.3       |
| Specific conductivity                  | umhos/cm    | 97        |
| Hardness, as CaCO <sub>3</sub> (T)     | mg/L        | 27.4      |
| Carbonate, as CaCO <sub>3</sub>        | mg/L        | < 1.0     |
| Bicarbonate, as CaCO <sub>3</sub>      | mg/L        | 17        |
| TDS                                    | mg/L        | 50        |
| TSS                                    | mg/L        | 1         |
| Total organic carbon                   | mg/L        | 3.2       |
| Dissolved organic carbon               | mg/L        | 3.2       |
| Total alkalinity, as CaCO <sub>3</sub> | mg/L        | 17        |
| <b>WQ03- Major Ions</b>                |             |           |
| Calcium                                | mg/L        | 8.35      |
| Chloride                               | mg/L        | 15        |
| Cyanide                                | mg/L        | < 0.0050  |
| Cyanide (free)                         | mg/L        | 0.0034    |

|                                          |      |            |
|------------------------------------------|------|------------|
| Cyanide (WAD)                            | mg/L | < 0.0010   |
| Magnesium                                | mg/L | 1.54       |
| Potassium                                | mg/L | 1.05       |
| Sodium                                   | mg/L | 6.55       |
| Sulfate                                  | mg/L | 5.3        |
| Silica                                   | mg/L | 0.23       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |      |            |
| Total ammonia-N                          | mg/L | < 0.050    |
| Nitrate                                  | mg/L | < 0.10     |
| Nitrite                                  | mg/L | < 0.010    |
| Nitrate + nitrite                        | mg/L | < 0.10     |
| Total Kjeldahl nitrogen                  | mg/L | 0.15       |
| Total phosphorus                         | mg/L | < 0.020    |
| Orthophosphate (P)                       | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b>                |      |            |
| Aluminum                                 | mg/L | 0.0054     |
| Antimony                                 | mg/L | < 0.00050  |
| Arsenic                                  | mg/L | 0.00052    |
| Barium                                   | mg/L | 0.0082     |
| Beryllium                                | mg/L | < 0.00010  |
| Boron                                    | mg/L | < 0.050    |
| Cadmium                                  | mg/L | < 0.000010 |
| Chromium                                 | mg/L | < 0.0010   |
| Copper                                   | mg/L | 0.00079    |
| Iron                                     | mg/L | 0.019      |
| Lead                                     | mg/L | < 0.00020  |
| Lithium                                  | mg/L | < 0.0020   |
| Manganese                                | mg/L | 0.0056     |
| 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 | 0.0509     |
| 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 | 0.0037     |
| Antimony                                 | mg/L | < 0.00050  |

|                                |      |            |
|--------------------------------|------|------------|
| Arsenic                        | mg/L | 0.00048    |
| Barium                         | mg/L | 0.0081     |
| Beryllium                      | mg/L | < 0.00010  |
| Boron                          | mg/L | < 0.050    |
| Cadmium                        | mg/L | < 0.000010 |
| Chromium                       | mg/L | < 0.0010   |
| Copper                         | mg/L | 0.00083    |
| Iron                           | mg/L | 0.0061     |
| Lead                           | mg/L | < 0.00020  |
| Lithium                        | mg/L | < 0.0020   |
| Manganese                      | mg/L | < 0.0010   |
| 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 | 0.0519     |
| 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      |

| MEL-12                                   | Sample date | 8/16/2021  |
|------------------------------------------|-------------|------------|
| Parameter                                | Unit        |            |
| <b>WQ02- Conventional Parameters</b>     |             |            |
| pH                                       | pH units    | 7.85       |
| Turbidity                                | NTU         | 0.6        |
| Specific conductivity                    | umhos/cm    | 2300       |
| Hardness, as CaCO <sub>3</sub> (T)       | mg/L        | 514        |
| TDS, calculated                          | mg/L        | 1200       |
| TDS                                      | mg/L        | 1360       |
| TSS                                      | mg/L        | 4          |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L        | 79         |
| <b>WQ03- Major Ions</b>                  |             |            |
| Calcium                                  | mg/L        | 136        |
| Chloride                                 | mg/L        | 520        |
| Cyanide                                  | mg/L        | < 0.0050   |
| Fluoride                                 | mg/L        | 0.11       |
| Magnesium                                | mg/L        | 38.9       |
| Potassium                                | mg/L        | 19.4       |
| Sodium                                   | mg/L        | 243        |
| Sulfate                                  | mg/L        | 200        |
| Silica                                   | mg/L        | 0.58       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |             |            |
| Total ammonia-N                          | mg/L        | 0.66       |
| Nitrate                                  | mg/L        | 9.07       |
| Nitrite                                  | mg/L        | 0.218      |
| Nitrate + nitrite                        | mg/L        | 9.29       |
| Total phosphorus                         | mg/L        | 0.049      |
| Orthophosphate (P)                       | mg/L        | 0.041      |
| <b>WQ06- Total Metals</b>                |             |            |
| Aluminum                                 | mg/L        | 0.0772     |
| Arsenic                                  | mg/L        | 0.0176     |
| Barium                                   | mg/L        | 0.0638     |
| Cadmium                                  | mg/L        | 0.000019   |
| Chromium                                 | mg/L        | < 0.0010   |
| Copper                                   | mg/L        | 0.00250    |
| Iron                                     | mg/L        | 0.148      |
| Lead                                     | mg/L        | 0.00073    |
| Manganese                                | mg/L        | 0.126      |
| Mercury                                  | mg/L        | < 0.00001  |
| Molybdenum                               | mg/L        | 0.0049     |
| Nickel                                   | mg/L        | 0.0059     |
| Selenium                                 | mg/L        | 0.00100    |
| Silver                                   | mg/L        | < 0.000020 |

|          |      |          |
|----------|------|----------|
| Thallium | mg/L | 0.000025 |
| Zinc     | mg/L | 0.0099   |

|                                          |                    |            |
|------------------------------------------|--------------------|------------|
| <b>MEL-13</b>                            | <b>Sample date</b> | 8/20/2021  |
| <b>Parameter</b>                         | <b>Unit</b>        |            |
| <b>WQ02- Conventional Parameters</b>     |                    |            |
| pH                                       | pH units           | 7.44       |
| Turbidity                                | NTU                | 0.2        |
| Specific conductivity                    | umhos/cm           | 110        |
| Hardness, as CaCO <sub>3</sub> (T)       | mg/L               | 29.8       |
| Carbonate, as CaCO <sub>3</sub>          | mg/L               | < 1.0      |
| Bicarbonate, as CaCO <sub>3</sub>        | mg/L               | 18         |
| TDS, calculated                          | mg/L               | 57         |
| TDS                                      | mg/L               | 160        |
| TSS                                      | mg/L               | 1          |
| Total organic carbon                     | mg/L               | 3.1        |
| Dissolved organic carbon                 | mg/L               | 3.1        |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L               | 18         |
| <b>WQ03- Major Ions</b>                  |                    |            |
| Calcium                                  | mg/L               | 9.04       |
| Chloride                                 | mg/L               | 19         |
| Cyanide                                  | mg/L               | < 0.0050   |
| Cyanide (free)                           | mg/L               | 0.0018     |
| Cyanide (WAD)                            | mg/L               | 0.0013     |
| Magnesium                                | mg/L               | 1.81       |
| Potassium                                | mg/L               | 1.16       |
| Sodium                                   | mg/L               | 8.18       |
| Sulfate                                  | mg/L               | 6.4        |
| Silica                                   | mg/L               | 0.24       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                    |            |
| Total ammonia-N                          | mg/L               | < 0.050    |
| Nitrate                                  | mg/L               | < 0.10     |
| Nitrite                                  | mg/L               | < 0.010    |
| Nitrate + nitrite                        | mg/L               | < 0.10     |
| Total Kjeldahl nitrogen                  | mg/L               | 0.22       |
| Total phosphorus                         | mg/L               | 0.0053     |
| Orthophosphate (P)                       | mg/L               | < 0.010    |
| <b>WQ06- Total Metals</b>                |                    |            |
| Aluminum                                 | mg/L               | 0.00574    |
| Antimony                                 | mg/L               | < 0.000020 |
| Arsenic                                  | mg/L               | 0.000528   |
| Barium                                   | mg/L               | 0.00880    |



|                               |      |             |
|-------------------------------|------|-------------|
| Beryllium                     | mg/L | < 0.000010  |
| Boron                         | mg/L | < 0.01      |
| Cadmium                       | mg/L | < 0.0000050 |
| Chromium                      | mg/L | < 0.00010   |
| Cobalt                        | mg/L | 0.0000246   |
| Copper                        | mg/L | 0.000706    |
| Iron                          | mg/L | 0.0142      |
| Lead                          | mg/L | 0.0000310   |
| Lithium                       | mg/L | 0.00136     |
| Manganese                     | mg/L | 0.00648     |
| Mercury                       | mg/L | < 0.00001   |
| Molybdenum                    | mg/L | 0.000122    |
| Nickel                        | mg/L | 0.000704    |
| Selenium                      | mg/L | 0.000042    |
| Silver                        | mg/L | < 0.0000050 |
| Strontium                     | mg/L | 0.0641      |
| Thallium                      | mg/L | 0.0000029   |
| Tin                           | mg/L | < 0.00020   |
| Titanium                      | mg/L | < 0.00050   |
| Uranium                       | mg/L | 0.0000212   |
| Vanadium                      | mg/L | < 0.00020   |
| Zinc                          | mg/L | 0.00109     |
| <b>WQ07- Dissolved Metals</b> |      |             |
| Aluminum                      | mg/L | 0.00278     |
| Antimony                      | mg/L | < 0.000020  |
| Arsenic                       | mg/L | 0.000482    |
| Barium                        | mg/L | 0.00848     |
| Beryllium                     | mg/L | < 0.000010  |
| Boron                         | mg/L | 0.014       |
| Cadmium                       | mg/L | < 0.0000050 |
| Chromium                      | mg/L | < 0.00010   |
| Cobalt                        | mg/L | 0.0000181   |
| Copper                        | mg/L | 0.000782    |
| Iron                          | mg/L | 0.0038      |
| Lead                          | mg/L | < 0.0000050 |
| Lithium                       | mg/L | 0.00133     |
| Manganese                     | mg/L | 0.000282    |
| Mercury                       | mg/L | < 0.00001   |
| Molybdenum                    | mg/L | 0.000201    |
| Nickel                        | mg/L | 0.000694    |
| Selenium                      | mg/L | 0.000045    |
| Silver                        | mg/L | < 0.0000050 |
| Strontium                     | mg/L | 0.0629      |

|                                |      |             |
|--------------------------------|------|-------------|
| Thallium                       | mg/L | < 0.0000020 |
| Tin                            | mg/L | < 0.00020   |
| Titanium                       | mg/L | < 0.00050   |
| Uranium                        | mg/L | 0.0000218   |
| Vanadium                       | mg/L | < 0.00020   |
| Zinc                           | mg/L | 0.00069     |
| <b>WQ08- Radionuclides</b>     |      |             |
| Radium-226                     | Bq/l | < 0.0050    |
| <b>WQ10- Volatile Organics</b> |      |             |
| Benzene                        | mg/L | < 0.00020   |
| Ethylbenzene                   | mg/L | < 0.00020   |
| Toluene                        | mg/L | 0.016       |
| 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       |

| MEL-14                            | 2AM-MEL1631           | 2AM-MEL1631           | MDMER       | MDMER                  | Sample   | Monthly<br>Average | 8/1/2021  | 8/6/2021  | 8/10/2021 | 8/16/2021 | 8/22/2021 | 8/29/2021 |
|-----------------------------------|-----------------------|-----------------------|-------------|------------------------|----------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Parameter                         | MEL-14<br>MAX<br>GRAB | MEL-14<br>MAX<br>MEAN | MAX<br>GRAB | MAX<br>MONTHLY<br>MEAN | Unit     |                    |           |           |           |           |           |           |
| WQ02- Conventional Parameters     |                       |                       |             |                        |          |                    |           |           |           |           |           |           |
| pH                                | 9.5                   | 9.5                   | 9.5         | 9.5                    | pH units | 7.66               | 7.73      | 7.73      | 7.67      | 7.67      | 7.56      | 7.57      |
| Turbidity                         |                       |                       |             |                        | NTU      | 0.33               | 0.4       | 0.5       | 0.4       | 0.2       | < 0.1     | 0.4       |
| Specific conductivity             |                       |                       |             |                        | umhos/cm | 2316.67            | 2100      | 2200      | 2200      | 2300      | 2400      | 2700      |
| Hardness, as CaCO3 (T)            |                       |                       |             |                        | mg/L     | 500.67             | 447       | 474       | 485       | 500       | 530       | 568       |
| Carbonate, as CaCO3               |                       |                       |             |                        | mg/L     | 1.00               | < 1.0     | < 1.0     | < 1.0     | < 1.0     | < 1.0     | < 1.0     |
| Bicarbonate, as CaCO3             |                       |                       |             |                        | mg/L     | 67.83              | 67        | 68        | 67        | 70        | 68        | 67        |
| TDS, calculated                   | 4500                  | 3500                  |             |                        | mg/L     | 1283.33            | 1100      | 1200      | 1200      | 1200      | 1400      | 1600      |
| TDS                               | 4500                  | 3500                  |             |                        | mg/L     | 1431.67            | 1230      | 1250      | 1480      | 1380      | 1520      | 1730      |
| TSS                               | 30                    | 15                    | 30          | 15                     | mg/L     | 4.00               | 4         | 3         | 4         | 5         | 5         | 3         |
| Total organic carbon              |                       |                       |             |                        | mg/L     | 8.13               | 8.5       | 8.4       | 8.1       | 8.3       | 7.6       | 7.9       |
| Dissolved organic carbon          |                       |                       |             |                        | mg/L     | 7.47               | 7.7       | 7.3       | 7.3       | 7.6       | 7.3       | 7.6       |
| Total alkalinity, as CaCO3        |                       |                       |             |                        | mg/L     | 68.17              | 67        | 68        | 68        | 71        | 68        | 67        |
| WQ03- Major Ions                  |                       |                       |             |                        |          |                    |           |           |           |           |           |           |
| Calcium                           |                       |                       |             |                        | mg/L     | 137.50             | 123       | 127       | 137       | 130       | 143       | 165       |
| Chloride                          |                       |                       |             |                        | mg/L     | 555.00             | 480       | 530       | 530       | 530       | 590       | 670       |
| Cyanide                           | 1                     | 0.5                   | 1           | 0.5                    | mg/L     | 0.0050             | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  |
| Cyanide (free)                    |                       |                       |             |                        | mg/L     | 0.0034             | 0.0029    | 0.0056    | 0.0031    | 0.0038    | 0.0040    | < 0.0010  |
| Cyanide (WAD)                     |                       |                       |             |                        | mg/L     | 0.0012             | < 0.0010  | 0.0010    | < 0.0010  | 0.0014    | 0.0016    | 0.0013    |
| Magnesium                         |                       |                       |             |                        | mg/L     | 37.38              | 33.4      | 35.0      | 34.7      | 38.0      | 39.3      | 43.9      |
| Potassium                         |                       |                       |             |                        | mg/L     | 19.02              | 16.7      | 18.0      | 18.2      | 18.8      | 19.9      | 22.5      |
| Sodium                            |                       |                       |             |                        | mg/L     | 239.00             | 207       | 221       | 226       | 238       | 253       | 289       |
| Sulfate                           |                       |                       |             |                        | mg/L     | 193.33             | 150       | 170       | 180       | 190       | 210       | 260       |
| Silica                            |                       |                       |             |                        | mg/L     | 0.47               | 0.44      | 0.68      | 0.57      | 0.52      | 0.26      | 0.35      |
| WQ04- Nutrients and Chlorophyll a |                       |                       |             |                        |          |                    |           |           |           |           |           |           |
| Total ammonia-N                   | 18                    | 14                    |             |                        | mg/L     | 0.56               | 0.30      | -         | 0.58      | 0.62      | 0.49      | 0.82      |
| Nitrate                           |                       |                       |             |                        | mg/L     | 9.32               | 6.31      | 7.66      | 7.51      | 8.86      | 11.1      | 14.5      |
| Nitrite                           |                       |                       |             |                        | mg/L     | 0.242              | 0.162     | 0.220     | 0.216     | 0.209     | 0.252     | 0.395     |
| Nitrate + nitrite                 |                       |                       |             |                        | mg/L     | 9.58               | 6.47      | 7.88      | 7.73      | 9.07      | 11.4      | 14.9      |
| Total Kjeldahl nitrogen           |                       |                       |             |                        | mg/L     | 1.35               | 0.51      | 1.4       | 1.1       | 1.9       | 2.0       | 1.2       |
| Total phosphorus                  | 4                     | 2                     |             |                        | mg/L     | 0.031              | < 0.020   | 0.046     | 0.037     | 0.033     | < 0.020   | 0.032     |
| Orthophosphate (P)                |                       |                       |             |                        | mg/L     | 0.012              | < 0.010   | < 0.010   | 0.021     | < 0.010   | < 0.010   | < 0.010   |
| WQ06- Total Metals                |                       |                       |             |                        |          |                    |           |           |           |           |           |           |
| Aluminum                          | 3                     | 2                     |             |                        | mg/L     | 0.41483            | 0.384     | 0.404     | 0.410     | 0.431     | 0.420     | 0.440     |
| Antimony                          |                       |                       |             |                        | mg/L     | 0.00089            | 0.00079   | 0.00090   | 0.00086   | 0.00088   | 0.00090   | < 0.0010  |
| Arsenic                           | 0.6                   | 0.3                   | 0.6         | 0.3                    | mg/L     | 0.00538            | 0.00946   | 0.00599   | 0.00483   | 0.00433   | 0.00387   | 0.00380   |
| Barium                            |                       |                       |             |                        | mg/L     | 0.06358            | 0.0552    | 0.0608    | 0.0627    | 0.0619    | 0.0683    | 0.0726    |
| Beryllium                         |                       |                       |             |                        | mg/L     | 0.00012            | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00010 | < 0.00020 |

|                        |     |     |     |     |      |         |            |            |            |            |            |            |
|------------------------|-----|-----|-----|-----|------|---------|------------|------------|------------|------------|------------|------------|
| Boron                  |     |     |     |     | mg/L | 0.28717 | 0.258      | 0.245      | 0.253      | 0.335      | 0.322      | 0.31       |
| Cadmium                |     |     |     |     | mg/L | 0.00002 | 0.000018   | 0.000027   | 0.000021   | 0.000021   | 0.000021   | 0.000030   |
| Chromium               |     |     |     |     | mg/L | 0.00117 | < 0.0010   | < 0.0010   | < 0.0010   | < 0.0010   | < 0.0010   | < 0.0020   |
| Cobalt                 |     |     |     |     | mg/L | 0.00134 | 0.00124    | 0.00152    | 0.00133    | 0.00129    | 0.00125    | 0.00139    |
| Copper                 | 0.4 | 0.2 | 0.6 | 0.3 | mg/L | 0.00206 | 0.00259    | 0.00224    | 0.00198    | 0.00199    | 0.00173    | 0.0018     |
| Iron                   |     |     |     |     | mg/L | 0.02850 | 0.029      | 0.053      | 0.021      | 0.018      | 0.030      | < 0.020    |
| Lead                   | 0.2 | 0.1 | 0.2 | 0.1 | mg/L | 0.00023 | < 0.00020  | < 0.00020  | < 0.00020  | < 0.00020  | < 0.00020  | < 0.00040  |
| Lithium                |     |     |     |     | mg/L | 0.04357 | 0.0436     | 0.0388     | 0.0436     | 0.0504     | 0.0443     | 0.0407     |
| Manganese              |     |     |     |     | mg/L | 0.13017 | 0.147      | 0.137      | 0.117      | 0.109      | 0.122      | 0.149      |
| Mercury                |     |     |     |     | mg/L | 0.00001 | < 0.00001  | < 0.00001  | < 0.00001  | < 0.00001  | < 0.00001  | < 0.00001  |
| Molybdenum             |     |     |     |     | mg/L | 0.00478 | 0.0048     | 0.0051     | 0.0051     | 0.0048     | 0.0046     | 0.0043     |
| Nickel                 | 1   | 0.5 | 1   | 0.5 | mg/L | 0.00522 | 0.0040     | 0.0052     | 0.0047     | 0.0054     | 0.0055     | 0.0065     |
| Selenium               |     |     |     |     | mg/L | 0.00097 | 0.00083    | 0.00105    | 0.00106    | 0.00098    | 0.00092    | 0.00099    |
| Silver                 |     |     |     |     | mg/L | 0.00002 | < 0.000020 | < 0.000020 | < 0.000020 | < 0.000020 | < 0.000020 | < 0.000040 |
| Strontium              |     |     |     |     | mg/L | 1.91000 | 1.68       | 1.78       | 2.00       | 1.86       | 2.13       | 2.01       |
| Thallium               |     |     |     |     | mg/L | 0.00003 | 0.000023   | 0.000027   | 0.000025   | 0.000024   | 0.000025   | 0.000031   |
| Tin                    |     |     |     |     | mg/L | 0.00583 | < 0.0050   | < 0.0050   | < 0.0050   | < 0.0050   | < 0.0050   | < 0.010    |
| Titanium               |     |     |     |     | mg/L | 0.00583 | < 0.0050   | < 0.0050   | < 0.0050   | < 0.0050   | < 0.0050   | < 0.010    |
| Uranium                |     |     |     |     | mg/L | 0.00087 | 0.00075    | 0.00067    | 0.00069    | 0.00114    | 0.00088    | 0.00110    |
| Vanadium               |     |     |     |     | mg/L | 0.00583 | < 0.0050   | < 0.0050   | < 0.0050   | < 0.0050   | < 0.0050   | < 0.010    |
| Zinc                   | 0.8 | 0.4 | 1   | 0.5 | mg/L | 0.00732 | < 0.0050   | 0.0070     | < 0.0050   | 0.0118     | 0.0051     | < 0.010    |
| WQ07- Dissolved Metals |     |     |     |     |      |         |            |            |            |            |            |            |
| Aluminum               |     |     |     |     | mg/L | 0.12083 | 0.167      | 0.120      | 0.111      | 0.103      | 0.112      | 0.112      |
| Antimony               |     |     |     |     | mg/L | 0.00086 | 0.00080    | 0.00083    | 0.00084    | 0.00088    | 0.00084    | 0.00098    |
| Arsenic                |     |     |     |     | mg/L | 0.00418 | 0.00905    | 0.00438    | 0.00348    | 0.00279    | 0.00261    | 0.00277    |
| Barium                 |     |     |     |     | mg/L | 0.06303 | 0.0562     | 0.0600     | 0.0621     | 0.0604     | 0.0655     | 0.0740     |
| Beryllium              |     |     |     |     | mg/L | 0.00010 | < 0.00010  | < 0.00010  | < 0.00010  | < 0.00010  | < 0.00010  | < 0.00010  |
| Boron                  |     |     |     |     | mg/L | 0.27283 | 0.262      | 0.242      | 0.244      | 0.263      | 0.295      | 0.331      |
| Cadmium                |     |     |     |     | mg/L | 0.00002 | 0.000018   | 0.000025   | 0.000020   | 0.000020   | 0.000020   | 0.000020   |
| Chromium               |     |     |     |     | mg/L | 0.00100 | < 0.0010   | < 0.0010   | < 0.0010   | < 0.0010   | < 0.0010   | < 0.0010   |
| Cobalt                 |     |     |     |     | mg/L | 0.00131 | 0.00123    | 0.00143    | 0.00132    | 0.00127    | 0.00124    | 0.00139    |
| Copper                 |     |     |     |     | mg/L | 0.00188 | 0.00205    | 0.00204    | 0.00191    | 0.00188    | 0.00174    | 0.00168    |
| Iron                   |     |     |     |     | mg/L | 0.00760 | 0.0126     | 0.0079     | 0.0083     | 0.0056     | 0.0062     | < 0.0050   |
| Lead                   |     |     |     |     | mg/L | 0.00020 | < 0.00020  | < 0.00020  | < 0.00020  | < 0.00020  | < 0.00020  | < 0.00020  |
| Lithium                |     |     |     |     | mg/L | 0.04027 | 0.0468     | 0.0371     | 0.0405     | 0.0338     | 0.0415     | 0.0419     |
| Manganese              |     |     |     |     | mg/L | 0.12667 | 0.142      | 0.127      | 0.113      | 0.106      | 0.117      | 0.155      |
| Mercury                |     |     |     |     | mg/L | 0.00001 | < 0.00001  | < 0.00001  | < 0.00001  | < 0.00001  | < 0.00001  | < 0.00001  |
| Molybdenum             |     |     |     |     | mg/L | 0.00478 | 0.0047     | 0.0049     | 0.0049     | 0.0046     | 0.0046     | 0.0050     |
| Nickel                 |     |     |     |     | mg/L | 0.00513 | 0.0038     | 0.0051     | 0.0047     | 0.0052     | 0.0055     | 0.0065     |
| Selenium               |     |     |     |     | mg/L | 0.00097 | 0.00078    | 0.00102    | 0.00100    | 0.00097    | 0.00089    | 0.00113    |
| Silver                 |     |     |     |     | mg/L | 0.00002 | < 0.000020 | < 0.000020 | < 0.000020 | < 0.000020 | < 0.000020 | < 0.000020 |
| Strontium              |     |     |     |     | mg/L | 1.92000 | 1.77       | 1.80       | 1.93       | 1.77       | 1.99       | 2.26       |

|                                       |  |  |      |      |      |         |           |           |           |           |           |           |
|---------------------------------------|--|--|------|------|------|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| Thallium                              |  |  |      |      | mg/L | 0.00003 | 0.000024  | 0.000024  | 0.000025  | 0.000024  | 0.000021  | 0.000036  |
| Tin                                   |  |  |      |      | mg/L | 0.00500 | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  |
| Titanium                              |  |  |      |      | mg/L | 0.00500 | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  |
| Uranium                               |  |  |      |      | mg/L | 0.00081 | 0.00076   | 0.00058   | 0.00063   | 0.00099   | 0.00078   | 0.00109   |
| Vanadium                              |  |  |      |      | mg/L | 0.00500 | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  |
| Zinc                                  |  |  |      |      | mg/L | 0.00500 | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  | < 0.0050  |
| WQ08- Radionuclides                   |  |  |      |      |      |         |           |           |           |           |           |           |
| Radium-226                            |  |  | 1.11 | 0.37 | Bq/l | 0.0108  | 0.010     | 0.010     | 0.0080    | 0.011     | 0.015     | 0.011     |
| WQ09- Toxicity                        |  |  |      |      |      |         |           |           |           |           |           |           |
| Daphnia 48 h static acute test - LC50 |  |  |      |      | %    | -       | >100      | -         | >100      | >100      | >100      | >100      |
| Daphnia 48 h Static Acute Test - EC50 |  |  |      |      | %    | -       | >100      | -         | >100      | >100      | >100      | >100      |
| LC50 (96h) - Rainbow Trout            |  |  |      |      | %    | -       | >100      | -         | >100      | >100      | >100      | >100      |
| WQ10- Volatile Organics               |  |  |      |      |      |         |           |           |           |           |           |           |
| Benzene                               |  |  |      |      | mg/L | 0.0002  | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 |
| Ethylbenzene                          |  |  |      |      | mg/L | 0.0002  | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 |
| Toluene                               |  |  |      |      | mg/L | 0.0002  | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 |
| Xylenes                               |  |  |      |      | mg/L | 0.0004  | < 0.00040 | < 0.00040 | < 0.00040 | < 0.00040 | < 0.00040 | < 0.00040 |
| m,p-Xylenes                           |  |  |      |      | mg/L | 0.0004  | < 0.00040 | < 0.00040 | < 0.00040 | < 0.00040 | < 0.00040 | < 0.00040 |
| o-Xylene                              |  |  |      |      | mg/L | 0.0002  | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 |
| F1 (C6-C10)-BTEX                      |  |  |      |      | mg/L | 0.025   | < 0.025   | < 0.025   | < 0.025   | < 0.025   | < 0.025   | < 0.025   |
| F1 (C6-C10)                           |  |  |      |      | mg/L | 0.025   | < 0.025   | < 0.025   | < 0.025   | < 0.025   | < 0.025   | < 0.025   |
| F2 (C10-C16)                          |  |  |      |      | mg/L | 0.1     | < 0.1     | < 0.1     | < 0.1     | < 0.1     | < 0.1     | < 0.1     |
| F3 (C16-C34)                          |  |  |      |      | mg/L | 0.2     | < 0.2     | < 0.2     | < 0.2     | < 0.2     | < 0.2     | < 0.2     |
| F4 (C34-C50)                          |  |  |      |      | mg/L | 0.2     | < 0.2     | < 0.2     | < 0.2     | < 0.2     | < 0.2     | < 0.2     |

|                                          |                    |            |
|------------------------------------------|--------------------|------------|
| <b>MEL-15</b>                            | <b>Sample date</b> | 8/21/2021  |
| <b>Parameter</b>                         | <b>Unit</b>        |            |
| <b>WQ02- Conventional Parameters</b>     |                    |            |
| pH                                       | pH units           | 7.68       |
| Turbidity                                | NTU                | 0.3        |
| Specific conductivity                    | umhos/cm           | 120        |
| Hardness, as CaCO3 (T)                   | mg/L               | 43.1       |
| Carbonate, as CaCO3                      | mg/L               | < 1.0      |
| Bicarbonate, as CaCO3                    | mg/L               | 38         |
| TDS, calculated                          | mg/L               | 60         |
| TDS                                      | mg/L               | 60         |
| TSS                                      | mg/L               | 2          |
| Total organic carbon                     | mg/L               | 4.5        |
| Dissolved organic carbon                 | mg/L               | 4.4        |
| Total alkalinity, as CaCO3               | mg/L               | 38         |
| <b>WQ03- Major Ions</b>                  |                    |            |
| Calcium                                  | mg/L               | 14.4       |
| Chloride                                 | mg/L               | 10         |
| Cyanide                                  | mg/L               | < 0.0050   |
| Cyanide (free)                           | mg/L               | 0.0016     |
| Cyanide (WAD)                            | mg/L               | < 0.0010   |
| Magnesium                                | mg/L               | 1.68       |
| Potassium                                | mg/L               | 0.952      |
| Sodium                                   | mg/L               | 4.67       |
| Sulfate                                  | mg/L               | 5.8        |
| Silica                                   | mg/L               | 0.43       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                    |            |
| Total ammonia-N                          | mg/L               | < 0.050    |
| Nitrate                                  | mg/L               | < 0.10     |
| Nitrite                                  | mg/L               | < 0.010    |
| Nitrate + nitrite                        | mg/L               | < 0.10     |
| Total Kjeldahl nitrogen                  | mg/L               | 0.20       |
| Total phosphorus                         | mg/L               | < 0.020    |
| Orthophosphate (P)                       | mg/L               | < 0.010    |
| <b>WQ06- Total Metals</b>                |                    |            |
| Aluminum                                 | mg/L               | 0.0041     |
| Antimony                                 | mg/L               | < 0.00050  |
| Arsenic                                  | mg/L               | 0.00107    |
| Barium                                   | mg/L               | 0.0111     |
| Beryllium                                | mg/L               | < 0.00010  |
| Boron                                    | mg/L               | < 0.050    |
| Cadmium                                  | mg/L               | < 0.000010 |
| Chromium                                 | mg/L               | < 0.0010   |

|                               |      |            |
|-------------------------------|------|------------|
| Copper                        | mg/L | 0.00072    |
| Iron                          | mg/L | 0.039      |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | < 0.0020   |
| Manganese                     | mg/L | 0.0054     |
| 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 |
| Sodium                        | mg/L | 4.62       |
| Strontium                     | mg/L | 0.0750     |
| 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 | 0.0040     |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00101    |
| Barium                        | mg/L | 0.0108     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00079    |
| Iron                          | mg/L | 0.0243     |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | < 0.0020   |
| Manganese                     | mg/L | 0.0014     |
| 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 | 0.0702     |
| 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                                   | Sample date | 8/21/2021 |
|------------------------------------------|-------------|-----------|
| Parameter                                | Unit        |           |
| <b>WQ02- Conventional Parameters</b>     |             |           |
| pH                                       | pH units    | 7.68      |
| Turbidity                                | NTU         | 0.4       |
| Specific conductivity                    | umhos/cm    | 130       |
| Hardness, as CaCO <sub>3</sub> (T)       | mg/L        | 43.6      |
| Carbonate, as CaCO <sub>3</sub>          | mg/L        | < 1.0     |
| Bicarbonate, as CaCO <sub>3</sub>        | mg/L        | 30        |
| TDS, calculated                          | mg/L        | 61        |
| TDS                                      | mg/L        | 50        |
| TSS                                      | mg/L        | 4         |
| Total organic carbon                     | mg/L        | 4.7       |
| Dissolved organic carbon                 | mg/L        | 5.1       |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L        | 30        |
| <b>WQ03- Major Ions</b>                  |             |           |
| Calcium                                  | mg/L        | 14.8      |
| Chloride                                 | mg/L        | 16        |
| Cyanide                                  | mg/L        | < 0.0050  |
| Cyanide (free)                           | mg/L        | 0.0031    |
| Cyanide (WAD)                            | mg/L        | 0.0012    |
| Magnesium                                | mg/L        | 1.94      |
| Potassium                                | mg/L        | 1.15      |
| Sodium                                   | mg/L        | 3.68      |
| Sulfate                                  | mg/L        | 4.8       |
| Silica                                   | mg/L        | 0.44      |
| <b>WQ04- Nutrients and Chlorophyll a</b> |             |           |
| Total ammonia-N                          | mg/L        | 0.070     |
| Nitrate                                  | mg/L        | < 0.10    |
| Nitrite                                  | mg/L        | < 0.010   |
| Nitrate + nitrite                        | mg/L        | < 0.10    |
| Total Kjeldahl nitrogen                  | mg/L        | 0.33      |
| Total phosphorus                         | mg/L        | 0.023     |
| Orthophosphate (P)                       | mg/L        | -         |
| <b>WQ06- Total Metals</b>                |             |           |
| Aluminum                                 | mg/L        | 0.0398    |
| Antimony                                 | mg/L        | < 0.00050 |
| Arsenic                                  | mg/L        | 0.00567   |
| Barium                                   | mg/L        | 0.0209    |
| Beryllium                                | mg/L        | < 0.00010 |



|                               |      |            |
|-------------------------------|------|------------|
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Calcium                       | mg/L | 14.2       |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00182    |
| Iron                          | mg/L | 0.200      |
| Lead                          | mg/L | 0.00038    |
| Lithium                       | mg/L | < 0.0020   |
| Manganese                     | mg/L | 0.0113     |
| 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 | 0.0751     |
| 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 | 0.0118     |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00337    |
| Barium                        | mg/L | 0.0201     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00129    |
| Iron                          | mg/L | 0.0411     |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | < 0.0020   |
| Manganese                     | mg/L | 0.0019     |
| 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 | 0.0734     |
| 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>MEL-17</b>                            | <b>Sample date</b> | <b>8/21/2021</b> |
| <b>Parameter</b>                         | <b>Unit</b>        |                  |
| <b>WQ02- Conventional Parameters</b>     |                    |                  |
| pH                                       | pH units           | 7.83             |
| Turbidity                                | NTU                | 0.5              |
| Specific conductivity                    | umhos/cm           | 260              |
| Hardness, as CaCO <sub>3</sub> (T)       | mg/L               | 93.3             |
| Carbonate, as CaCO <sub>3</sub>          | mg/L               | < 1.0            |
| Bicarbonate, as CaCO <sub>3</sub>        | mg/L               | 53               |
| TDS, calculated                          | mg/L               | 140              |
| TDS                                      | mg/L               | 170              |
| TSS                                      | mg/L               | 17               |
| Total organic carbon                     | mg/L               | 9.8              |
| Dissolved organic carbon                 | mg/L               | 11               |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L               | 53               |
| <b>WQ03- Major Ions</b>                  |                    |                  |
| Calcium (E200.8)                         | mg/L               | 33.2             |
| Chloride (SM4500-Cl-)                    | mg/L               | 33               |
| Cyanide                                  | mg/L               | < 0.0050         |
| Cyanide (free)                           | mg/L               | 0.0036           |
| Cyanide (WAD)                            | mg/L               | 0.0014           |
| Magnesium (E200.8)                       | mg/L               | 3.86             |
| Potassium (E200.8)                       | mg/L               | 1.90             |
| Sodium (E200.8)                          | mg/L               | 10.7             |
| Sulfate (E375.4)                         | mg/L               | 24               |
| Silica                                   | mg/L               | 2.0              |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                    |                  |
| Total ammonia-N                          | mg/L               | < 0.050          |
| Nitrate                                  | mg/L               | < 0.10           |
| Nitrite                                  | mg/L               | < 0.010          |
| Nitrate + nitrite                        | mg/L               | < 0.10           |
| Total Kjeldahl nitrogen                  | mg/L               | 0.54             |
| Total phosphorus                         | mg/L               | < 0.020          |
| 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               | 0.0295           |

|                               |      |            |
|-------------------------------|------|------------|
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00204    |
| Barium                        | mg/L | 0.0419     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | 0.000012   |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00226    |
| Iron                          | mg/L | 1.59       |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | 0.0046     |
| Manganese                     | mg/L | 0.494      |
| Mercury                       | mg/L | < 0.00001  |
| Molybdenum                    | mg/L | < 0.0010   |
| Nickel                        | mg/L | 0.0038     |
| Selenium                      | mg/L | < 0.00010  |
| Silver                        | mg/L | < 0.000020 |
| Strontium                     | mg/L | 0.228      |
| Thallium                      | mg/L | < 0.000010 |
| Tin                           | mg/L | < 0.0050   |
| Titanium                      | mg/L | < 0.0050   |
| Uranium                       | mg/L | 0.00011    |
| Vanadium                      | mg/L | < 0.0050   |
| Zinc                          | mg/L | < 0.0050   |
| <b>WQ07- Dissolved Metals</b> |      |            |
| Aluminum                      | mg/L | 0.0095     |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00095    |
| Barium                        | mg/L | 0.0278     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | 0.000010   |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00175    |
| Iron                          | mg/L | 0.197      |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | 0.0051     |
| Manganese                     | mg/L | 0.0540     |
| Mercury                       | mg/L | 0.0034     |
| Molybdenum                    | mg/L | < 0.0010   |
| Nickel                        | mg/L | 0.0020     |
| Selenium                      | mg/L | < 0.00010  |
| Silver                        | mg/L | < 0.000020 |

|           |      |            |
|-----------|------|------------|
| Strontium | mg/L | 0.233      |
| 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                                   | Sample date | 8/21/2021 |
|------------------------------------------|-------------|-----------|
| Parameter                                | Unit        |           |
| <b>WQ02- Conventional Parameters</b>     |             |           |
| pH                                       | pH units    | 7.69      |
| Turbidity                                | NTU         | 0.3       |
| Specific conductivity                    | umhos/cm    | 160       |
| Hardness, as CaCO <sub>3</sub> (T)       | mg/L        | 99.6      |
| Carbonate, as CaCO <sub>3</sub>          | mg/L        | < 1.0     |
| Bicarbonate, as CaCO <sub>3</sub>        | mg/L        | 37        |
| TDS, calculated                          | mg/L        | 80        |
| TDS                                      | mg/L        | 120       |
| TSS                                      | mg/L        | 2         |
| Total organic carbon                     | mg/L        | 4.1       |
| Dissolved organic carbon                 | mg/L        | 4.7       |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L        | 37        |
| <b>WQ03- Major Ions</b>                  |             |           |
| Calcium                                  | mg/L        | 19.6      |
| Chloride                                 | mg/L        | 22        |
| Cyanide                                  | mg/L        | < 0.0050  |
| Cyanide (free)                           | mg/L        | 0.0018    |
| Cyanide (WAD)                            | mg/L        | 0.0013    |
| Magnesium                                | mg/L        | 2.46      |
| Potassium                                | mg/L        | 1.23      |
| Sodium                                   | mg/L        | 5.12      |
| Sulfate                                  | mg/L        | 7.5       |
| Silica                                   | mg/L        | 0.37      |
| <b>WQ04- Nutrients and Chlorophyll a</b> |             |           |
| Total ammonia-N                          | mg/L        | < 0.050   |
| Nitrate                                  | mg/L        | < 0.10    |
| Nitrite                                  | mg/L        | < 0.010   |
| Nitrate + nitrite                        | mg/L        | < 0.10    |
| Total Kjeldahl nitrogen                  | mg/L        | 0.31      |
| Total phosphorus                         | mg/L        | 0.024     |
| Orthophosphate (P)                       | mg/L        | < 0.010   |

| <b>WQ06- Total Metals</b>     |      |            |
|-------------------------------|------|------------|
| Aluminum                      | mg/L | 0.0138     |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00102    |
| Barium                        | mg/L | 0.0282     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00182    |
| Iron                          | mg/L | 0.198      |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | 0.0057     |
| Manganese                     | mg/L | 0.0258     |
| Mercury                       | mg/L | < 0.00001  |
| Molybdenum                    | mg/L | < 0.0010   |
| Nickel                        | mg/L | 0.0020     |
| Selenium                      | mg/L | < 0.00010  |
| Silver                        | mg/L | < 0.000020 |
| Strontium                     | mg/L | 0.246      |
| 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 | 0.0044     |
| Antimony                      | mg/L | < 0.00050  |
| Arsenic                       | mg/L | 0.00148    |
| Barium                        | mg/L | 0.0153     |
| Beryllium                     | mg/L | < 0.00010  |
| Boron                         | mg/L | < 0.050    |
| Cadmium                       | mg/L | < 0.000010 |
| Chromium                      | mg/L | < 0.0010   |
| Copper                        | mg/L | 0.00088    |
| Iron                          | mg/L | 0.0198     |
| Lead                          | mg/L | < 0.00020  |
| Lithium                       | mg/L | 0.0092     |
| Manganese                     | mg/L | 0.0014     |
| 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 | 0.153      |
| 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-20                                   | Sample date | 8/24/2021 |
|------------------------------------------|-------------|-----------|
| Parameter                                | Unit        |           |
| <b>WQ02- Conventional Parameters</b>     |             |           |
| pH                                       | pH units    | 7.69      |
| Turbidity                                | NTU         | 12        |
| Hardness, as CaCO <sub>3</sub> (T)       | mg/L        | 676       |
| TDS, calculated                          | mg/L        | 2100      |
| TDS                                      | mg/L        | 2000      |
| TSS                                      | mg/L        | 22        |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L        | 93        |
| <b>WQ03- Major Ions</b>                  |             |           |
| Calcium                                  | mg/L        | 172       |
| Chloride                                 | mg/L        | 890       |
| Cyanide                                  | mg/L        | 0.012     |
| Fluoride                                 | mg/L        | 0.13      |
| Magnesium                                | mg/L        | 57.8      |
| Potassium                                | mg/L        | 26.9      |
| Sodium                                   | mg/L        | 424       |
| Sulfate                                  | mg/L        | 320       |
| Silica                                   | mg/L        | 3.5       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |             |           |
| Total ammonia-N                          | mg/L        | 13        |
| Nitrate                                  | mg/L        | 30.3      |
| Nitrite                                  | mg/L        | 0.475     |
| Nitrate + nitrite                        | mg/L        | 30.8      |
| Total phosphorus                         | mg/L        | 0.076     |
| Orthophosphate (P)                       | mg/L        | 0.029     |
| <b>WQ06- Total Metals</b>                |             |           |
| Aluminum                                 | mg/L        | 0.248     |
| Arsenic                                  | mg/L        | 0.0970    |
| Barium                                   | mg/L        | 0.0832    |
| Cadmium                                  | mg/L        | 0.000137  |

|            |      |            |
|------------|------|------------|
| Chromium   | mg/L | < 0.0020   |
| Copper     | mg/L | 0.0068     |
| Iron       | mg/L | 0.489      |
| Lead       | mg/L | 0.00305    |
| Manganese  | mg/L | 0.450      |
| Mercury    | mg/L | < 0.00001  |
| Molybdenum | mg/L | 0.0058     |
| Nickel     | mg/L | 0.0294     |
| Selenium   | mg/L | 0.00281    |
| Silver     | mg/L | < 0.000040 |
| Thallium   | mg/L | 0.000047   |
| Zinc       | mg/L | < 0.010    |

|                                          |                    |                  |
|------------------------------------------|--------------------|------------------|
| <b>MEL-21</b>                            | <b>Sample date</b> | <b>8/24/2021</b> |
| <b>Parameter</b>                         | <b>Unit</b>        |                  |
| <b>WQ02- Conventional Parameters</b>     |                    |                  |
| pH                                       | pH units           | 7.87             |
| Turbidity                                | NTU                | 23               |
| Hardness, as CaCO <sub>3</sub> (T)       | mg/L               | 554              |
| TDS, calculated                          | mg/L               | 1200             |
| TDS                                      | mg/L               | 1370             |
| TSS                                      | mg/L               | 41               |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L               | 85               |
| <b>WQ03- Major Ions</b>                  |                    |                  |
| Calcium                                  | mg/L               | 158              |
| Chloride                                 | mg/L               | 480              |
| Cyanide                                  | mg/L               | 0.010            |
| Fluoride                                 | mg/L               | 0.14             |
| Magnesium                                | mg/L               | 36.1             |
| Potassium                                | mg/L               | 16.0             |
| Sodium                                   | mg/L               | 197              |
| Sulfate                                  | mg/L               | 270              |
| Silica                                   | mg/L               | 4.1              |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                    |                  |
| Total ammonia-N                          | mg/L               | 0.83             |
| Nitrate                                  | mg/L               | 6.69             |
| Nitrite                                  | mg/L               | 0.066            |
| Nitrate + nitrite                        | mg/L               | 6.76             |
| Total phosphorus                         | mg/L               | 0.075            |
| Orthophosphate (P)                       | mg/L               | < 0.010          |
| <b>WQ06- Total Metals</b>                |                    |                  |
| Aluminum                                 | mg/L               | 0.424            |

|            |      |           |
|------------|------|-----------|
| Arsenic    | mg/L | 0.0266    |
| Barium     | mg/L | 0.0831    |
| Cadmium    | mg/L | 0.000051  |
| Chromium   | mg/L | 0.0013    |
| Copper     | mg/L | 0.00476   |
| Iron       | mg/L | 0.848     |
| Lead       | mg/L | 0.00168   |
| Manganese  | mg/L | 0.215     |
| Mercury    | mg/L | < 0.00001 |
| Molybdenum | mg/L | 0.0069    |
| Nickel     | mg/L | 0.0224    |
| Selenium   | mg/L | 0.00055   |
| Silver     | mg/L | 0.000022  |
| Thallium   | mg/L | 0.000026  |
| Zinc       | mg/L | < 0.0050  |

| MEL-22                                   | Sample date | 8/24/2021 |
|------------------------------------------|-------------|-----------|
| Parameter                                | Unit        |           |
| <b>WQ02- Conventional Parameters</b>     |             |           |
| pH                                       | pH units    | 7.76      |
| Turbidity                                | NTU         | 0.9       |
| Hardness, as CaCO <sub>3</sub> (T)       | mg/L        | 845       |
| TDS, calculated                          | mg/L        | 2200      |
| TDS                                      | mg/L        | 2460      |
| TSS                                      | mg/L        | 3         |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L        | 82        |
| <b>WQ03- Major Ions</b>                  |             |           |
| Calcium                                  | mg/L        | 225       |
| Chloride                                 | mg/L        | 1000      |
| Cyanide                                  | mg/L        | < 0.0050  |
| Fluoride                                 | mg/L        | 0.13      |
| Magnesium                                | mg/L        | 62.9      |
| Potassium                                | mg/L        | 34.6      |
| Sodium                                   | mg/L        | 420       |
| Sulfate                                  | mg/L        | 340       |
| Silica                                   | mg/L        | 1.8       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |             |           |
| Total ammonia-N                          | mg/L        | 3.2       |
| Nitrate                                  | mg/L        | 14.6      |
| Nitrite                                  | mg/L        | 0.203     |
| Nitrate + nitrite                        | mg/L        | 14.9      |
| Total phosphorus                         | mg/L        | 0.046     |



|                           |      |            |
|---------------------------|------|------------|
| Orthophosphate (P)        | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b> |      |            |
| Aluminum                  | mg/L | 0.0356     |
| Arsenic                   | mg/L | 0.00518    |
| Barium                    | mg/L | 0.0694     |
| Cadmium                   | mg/L | 0.000049   |
| Chromium                  | mg/L | < 0.0020   |
| Copper                    | mg/L | 0.0031     |
| Iron                      | mg/L | 0.158      |
| Lead                      | mg/L | < 0.00040  |
| Manganese                 | mg/L | 0.104      |
| Mercury                   | mg/L | < 0.00001  |
| Molybdenum                | mg/L | 0.0050     |
| Nickel                    | mg/L | 0.0149     |
| Selenium                  | mg/L | 0.00069    |
| Silver                    | mg/L | < 0.000040 |
| Thallium                  | mg/L | 0.000053   |
| Zinc                      | mg/L | < 0.010    |

|                                          |                    |                  |
|------------------------------------------|--------------------|------------------|
| <b>MEL-23</b>                            | <b>Sample date</b> | <b>8/24/2021</b> |
| <b>Parameter</b>                         | <b>Unit</b>        |                  |
| <b>WQ02- Conventional Parameters</b>     |                    |                  |
| pH                                       | pH units           | 7.94             |
| Turbidity                                | NTU                | 13               |
| Hardness, as CaCO <sub>3</sub> (T)       | mg/L               | 939              |
| TDS, calculated                          | mg/L               | 2800             |
| TDS                                      | mg/L               | 2780             |
| TSS                                      | mg/L               | 17               |
| Total alkalinity, as CaCO <sub>3</sub>   | mg/L               | 140              |
| <b>WQ03- Major Ions</b>                  |                    |                  |
| Calcium                                  | mg/L               | 196              |
| Chloride                                 | mg/L               | 1000             |
| Cyanide                                  | mg/L               | 0.049            |
| Fluoride                                 | mg/L               | 0.28             |
| Magnesium                                | mg/L               | 97.7             |
| Potassium                                | mg/L               | 55.6             |
| Sodium                                   | mg/L               | 565              |
| Sulfate                                  | mg/L               | 660              |
| Silica                                   | mg/L               | 5.1              |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                    |                  |
| Total ammonia-N                          | mg/L               | 14               |
| Nitrate                                  | mg/L               | 24.2             |

|                           |      |            |
|---------------------------|------|------------|
| Nitrite                   | mg/L | 0.301      |
| Nitrate + nitrite         | mg/L | 24.5       |
| Total phosphorus          | mg/L | 0.057      |
| Orthophosphate (P)        | mg/L | < 0.010    |
| <b>WQ06- Total Metals</b> |      |            |
| Aluminum                  | mg/L | 0.271      |
| Arsenic                   | mg/L | 0.0128     |
| Barium                    | mg/L | 0.0686     |
| Cadmium                   | mg/L | 0.000099   |
| Chromium                  | mg/L | < 0.0020   |
| Copper                    | mg/L | 0.0065     |
| Iron                      | mg/L | 0.494      |
| Lead                      | mg/L | 0.00105    |
| Manganese                 | mg/L | 0.524      |
| Mercury                   | mg/L | < 0.00001  |
| Molybdenum                | mg/L | 0.0161     |
| Nickel                    | mg/L | 0.0851     |
| Selenium                  | mg/L | 0.00190    |
| Silver                    | mg/L | < 0.000040 |
| Thallium                  | mg/L | 0.000048   |
| Zinc                      | mg/L | < 0.010    |

| MEL-25                                   | MEL-25<br>LIMITS MAX<br>GRAB | MEL-25<br>LIMITS MAX<br>MEAN | Sample date | 8/25/2021 |
|------------------------------------------|------------------------------|------------------------------|-------------|-----------|
| Parameter                                |                              |                              | Unit        |           |
| <b>WQ02- Conventional Parameters</b>     |                              |                              |             |           |
| pH                                       | 9.5                          | 9.5                          | pH units    | 8.07      |
| TSS                                      | 30                           | 15                           | mg/L        | < 1       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                              |                              |             |           |
| Total ammonia-N                          |                              |                              | mg/L        | < 0.050   |
| <b>WQ05- General Organics</b>            |                              |                              |             |           |
| Total oil and grease                     | 5                            | 5                            | mg/L        | < 0.50    |
| <b>WQ06- Total Metals</b>                |                              |                              |             |           |
| Arsenic                                  |                              |                              | mg/L        | 0.00078   |
| Copper                                   |                              |                              | mg/L        | 0.00157   |
| Lead                                     | 0.1                          | 0.1                          | mg/L        | < 0.00020 |
| Nickel                                   |                              |                              | mg/L        | 0.0025    |
| <b>WQ10- Volatile Organics</b>           |                              |                              |             |           |
| Benzene                                  | 0.37                         | 0.37                         | mg/L        | < 0.00020 |
| Ethylbenzene                             | 0.09                         | 0.09                         | mg/L        | < 0.00020 |
| Toluene                                  | 0.002                        | 0.002                        | 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     |

| MEL-26                            | MDMER<br>MAX GRAB | MDMER<br>MAX<br>MONTHLY<br>MEAN | Sample date | Monthly<br>Average | 8/12/2021 | 8/12/2021 | 8/16/2021 | 8/16/2021 | 8/22/2021 | 8/29/2021 | 8/29/2021 |
|-----------------------------------|-------------------|---------------------------------|-------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                   |                   |                                 | Sample name |                    | MEL-26    | MEL-26    | MEL-26    | MEL-26    | MEL-26    | MEL-26    | MEL-26    |
|                                   |                   |                                 | Lab         |                    | ALS-Van   | BVLab     | ALS-Van   | BVLab     | BVLab     | BVLab     | ALS-Van   |
| Parameter                         |                   |                                 | Unit        |                    | -         | -         | -         | -         | -         | -         | -         |
| WQ02- Conventional Parameters     |                   |                                 |             |                    |           |           |           |           |           |           |           |
| pH (T)                            | 9.5               | 9.5                             | pH units    | 7.32               | -         | 7.39      | -         | 7.31      | 7.38      | 7.19      | -         |
| Dissolved Oxygen                  |                   |                                 | mg/L        | 10.80              | -         | 10.2      | -         | 10.2      | 11.1      | 11.7      | -         |
| Turbidity                         |                   |                                 | NTU         | 0.60               | -         | 0.5       | -         | 0.7       | 0.6       | 0.6       | -         |
| Specific conductivity (SM2510)    |                   |                                 | umhos/cm    | 19750.00           | -         | 21000     | -         | 20000     | 19000     | 19000     | -         |
| Hardness, as CaCO3 (T)            |                   |                                 | mg/L        | 2725.00            | -         | 2930      | -         | 2930      | 2530      | 2510      | -         |
| Carbonate, as CaCO3               |                   |                                 | mg/L        | 1.00               | -         | < 1.0     | -         | < 1.0     | -         | < 1.0     | -         |
| Bicarbonate, as CaCO3             |                   |                                 | mg/L        | 35.50              | -         | 43        | -         | 34        | 32        | 33        | -         |
| TDS (calculated)                  |                   |                                 | mg/L        | 19250.00           | -         | 20000     | -         | 20000     | 18000     | 19000     | -         |
| TDS                               |                   |                                 | mg/L        | 11950.00           | -         | 13000     | -         | 12500     | 11900     | 10400     | -         |
| TSS                               | 30                | 15                              | mg/L        | 6.09               | 2.6       | 13        | < 2.0     | 14        | < 2.0     | 7         | < 2.0     |
| Total organic carbon              |                   |                                 | mg/L        | 7.63               | -         | 7.9       | -         | 7.8       | 7.5       | 7.3       | -         |
| Dissolved organic carbon          |                   |                                 | mg/L        | 7.10               | -         | 7.3       | -         | 7.3       | 7.0       | 6.8       | -         |
| Total alkalinity, as CaCO3        |                   |                                 | mg/L        | 35.50              | -         | 43        | -         | 34        | 32        | 33        | -         |
| WQ03- Major Ions                  |                   |                                 |             |                    |           |           |           |           |           |           |           |
| Calcium (E200.8)                  |                   |                                 | mg/L        | 534.00             | -         | 547       | -         | 542       | 497       | 550       | -         |
| Calcium (SW6010B)                 |                   |                                 | mg/L        | 542.50             | -         | 590       | -         | 530       | 490       | 560       | -         |
| Chloride                          |                   |                                 | mg/L        | 6425.00            | -         | 6600      | -         | 6600      | 6100      | 6400      | -         |
| Chloride                          |                   |                                 | mg/L        | 6300.00            | -         | 6600      | -         | 6400      | 6000      | 6200      | -         |
| Cyanide                           | 1                 | 0.5                             | mg/L        | 0.08               | -         | 0.070     | -         | 0.068     | 0.092     | 0.073     | -         |
| Cyanide (free)                    |                   |                                 | mg/L        | 0.022              | -         | 0.016     | -         | 0.015     | 0.023     | 0.035     | -         |
| Cyanide (WAD)                     |                   |                                 | mg/L        | 0.027              | -         | 0.023     | -         | 0.022     | 0.024     | 0.040     | -         |
| Magnesium (E200.8)                |                   |                                 | mg/L        | 346.75             | -         | 374       | -         | 371       | 313       | 329       | -         |
| Magnesium (SW6010B)               |                   |                                 | mg/L        | 347.50             | -         | 350       | -         | 350       | 320       | 370       | -         |
| Potassium (E200.8)                |                   |                                 | mg/L        | 141.25             | -         | 148       | -         | 146       | 130       | 141       | -         |
| Potassium (SW6010B)               |                   |                                 | mg/L        | 137.50             | -         | 140       | -         | 130       | 130       | 150       | -         |
| Sodium (E200.8)                   |                   |                                 | mg/L        | 3155.00            | -         | 3340      | -         | 3310      | 2920      | 3050      | -         |
| Sodium (SW6010B)                  |                   |                                 | mg/L        | 3200.00            | -         | 3400      | -         | 3200      | 3000      | 3200      | -         |
| Sulfate (E375.4)                  |                   |                                 | mg/L        | 757.50             | -         | 800       | -         | 720       | 720       | 790       | -         |
| Sulphate (E325.2)                 |                   |                                 | mg/L        | 822.50             | -         | 830       | -         | 820       | 810       | 830       | -         |
| Silica                            |                   |                                 | mg/L        | 5.83               | -         | 4.4       | -         | 8.0       | 5.9       | 5.0       | -         |
| WQ04- Nutrients and Chlorophyll a |                   |                                 |             |                    |           |           |           |           |           |           |           |
| Total ammonia-N                   |                   |                                 | mg/L        | 35.00              | -         | 37        | -         | 35        | 32        | 36        | -         |
| Nitrate                           |                   |                                 | mg/L        | 45.70              | -         | 47.1      | -         | 45.5      | 44.8      | 45.4      | -         |
| Nitrite                           |                   |                                 | mg/L        | 1.21               | -         | 1.30      | -         | 1.22      | 1.20      | 1.11      | -         |
| Nitrate + nitrite                 |                   |                                 | mg/L        | 46.93              | -         | 48.4      | -         | 46.8      | 46.0      | 46.5      | -         |
| Total Kjeldahl nitrogen           |                   |                                 | mg/L        | 40.50              | -         | 43        | -         | 43        | 35        | 41        | -         |

|                        |     |     |      |           |   |           |   |           |           |            |   |
|------------------------|-----|-----|------|-----------|---|-----------|---|-----------|-----------|------------|---|
| Total phosphorus       |     |     | mg/L | 0.024     | - | < 0.020   | - | < 0.020   | 0.022     | 0.033      | - |
| Orthophosphate (P)     |     |     | mg/L | 0.010     | - | < 0.010   | - | < 0.010   | < 0.010   | < 0.010    | - |
| WQ06- Total Metals     |     |     |      |           |   |           |   |           |           |            |   |
| Aluminum               |     |     | mg/L | 0.35500   | - | 0.365     | - | 0.497     | 0.338     | 0.220      | - |
| Antimony               |     |     | mg/L | 0.00468   | - | < 0.0050  | - | < 0.0050  | < 0.0050  | 0.00372    | - |
| Arsenic                | 0.6 | 0.3 | mg/L | 0.00687   | - | 0.0081    | - | 0.0081    | 0.0062    | 0.00506    | - |
| Barium                 |     |     | mg/L | 0.10250   | - | 0.105     | - | 0.103     | 0.101     | 0.101      | - |
| Beryllium              |     |     | mg/L | 0.00078   | - | < 0.0010  | - | < 0.0010  | < 0.0010  | < 0.00010  | - |
| Boron                  |     |     | mg/L | 0.78150   | - | 0.86      | - | 0.92      | 0.69      | 0.656      | - |
| Cadmium                |     |     | mg/L | 0.00010   | - | < 0.00010 | - | < 0.00010 | < 0.00010 | 0.000081   | - |
| Chromium               |     |     | mg/L | 0.00775   | - | < 0.010   | - | < 0.010   | < 0.010   | < 0.0010   | - |
| Cobalt                 |     |     | mg/L | 0.00359   | - | 0.0036    | - | 0.0036    | 0.0035    | 0.00364    | - |
| Copper                 | 0.6 | 0.3 | mg/L | 0.00448   | - | < 0.0050  | - | < 0.0050  | < 0.0050  | 0.00293    | - |
| Iron                   |     |     | mg/L | 0.08150   | - | < 0.10    | - | < 0.10    | < 0.10    | 0.026      | - |
| Lead                   | 0.2 | 0.1 | mg/L | 0.00160   | - | < 0.0020  | - | < 0.0020  | < 0.0020  | 0.00040    | - |
| Lithium                |     |     | mg/L | 0.11333   | - | 0.118     | - | 0.134     | 0.102     | 0.0993     | - |
| Magnesium              |     |     | mg/L | 338.75000 | - | 361       | - | 389       | 300       | 305        | - |
| Manganese              |     |     | mg/L | 0.13950   | - | 0.134     | - | 0.144     | 0.139     | 0.141      | - |
| Mercury                |     |     | mg/L | 0.00001   | - | < 0.00001 | - | < 0.00001 | < 0.00001 | < 0.00001  | - |
| Molybdenum             |     |     | mg/L | 0.02470   | - | 0.027     | - | 0.025     | 0.024     | 0.0228     | - |
| Nickel                 | 1   | 0.5 | mg/L | 0.02538   | - | 0.024     | - | 0.023     | 0.026     | 0.0285     | - |
| Selenium               |     |     | mg/L | 0.00195   | - | 0.0020    | - | 0.0018    | 0.0018    | 0.00221    | - |
| Silver                 |     |     | mg/L | 0.00016   | - | < 0.00020 | - | < 0.00020 | < 0.00020 | < 0.000020 | - |
| Strontium              |     |     | mg/L | 11.15000  | - | 11.8      | - | 11.0      | 10.5      | 11.3       | - |
| Sulphur                |     |     | mg/L | 291.00000 | - | 310       | - | 310       | 273       | 271        | - |
| Thallium               |     |     | mg/L | 0.00009   | - | < 0.00010 | - | < 0.00010 | < 0.00010 | 0.000076   | - |
| Tin                    |     |     | mg/L | 0.03875   | - | < 0.050   | - | < 0.050   | < 0.050   | < 0.0050   | - |
| Titanium               |     |     | mg/L | 0.03875   | - | < 0.050   | - | < 0.050   | < 0.050   | < 0.0050   | - |
| Uranium                |     |     | mg/L | 0.00388   | - | 0.0047    | - | 0.0043    | 0.0035    | 0.00300    | - |
| Vanadium               |     |     | mg/L | 0.03875   | - | < 0.050   | - | < 0.050   | < 0.050   | < 0.0050   | - |
| Zinc                   | 1   | 0.5 | mg/L | 0.03958   | - | < 0.050   | - | < 0.050   | < 0.050   | 0.0083     | - |
| WQ07- Dissolved Metals |     |     |      |           |   |           |   |           |           |            |   |
| Aluminum               |     |     | mg/L | 0.12050   | - | 0.141     | - | 0.167     | 0.091     | 0.083      | - |
| Antimony               |     |     | mg/L | 0.00465   | - | < 0.0050  | - | < 0.0050  | < 0.0050  | 0.0036     | - |
| Arsenic                |     |     | mg/L | 0.00487   | - | 0.0057    | - | 0.0051    | 0.0042    | 0.00449    | - |
| Barium                 |     |     | mg/L | 0.10325   | - | 0.104     | - | 0.105     | 0.098     | 0.106      | - |
| Beryllium              |     |     | mg/L | 0.00088   | - | < 0.0010  | - | < 0.0010  | < 0.0010  | < 0.00050  | - |
| Bismuth                |     |     | mg/L | 0.00875   | - | < 0.010   | - | < 0.010   | < 0.010   | < 0.0050   | - |
| Cadmium                |     |     | mg/L | 0.00009   | - | < 0.00010 | - | < 0.00010 | < 0.00010 | 0.000052   | - |
| Chromium               |     |     | mg/L | 0.00875   | - | < 0.010   | - | < 0.010   | < 0.010   | < 0.0050   | - |
| Cobalt                 |     |     | mg/L | 0.00368   | - | 0.0036    | - | 0.0038    | 0.0036    | 0.0037     | - |
| Copper                 |     |     | mg/L | 0.00308   | - | 0.0030    | - | 0.0031    | 0.0031    | 0.0031     | - |

|                     |      |      |      |           |   |           |   |                  |           |           |   |
|---------------------|------|------|------|-----------|---|-----------|---|------------------|-----------|-----------|---|
| Iron                |      |      | mg/L | 0.04375   | - | < 0.050   | - | < 0.050          | < 0.050   | < 0.025   | - |
| Lead                |      |      | mg/L | 0.00175   | - | < 0.0020  | - | < 0.0020         | < 0.0020  | < 0.0010  | - |
| Lithium             |      |      | mg/L | 0.10475   | - | 0.108     | - | 0.110            | 0.098     | 0.103     | - |
| Manganese           |      |      | mg/L | 0.14300   | - | 0.137     | - | 0.146            | 0.140     | 0.149     | - |
| Mercury             |      |      | mg/L | 0.00001   | - | < 0.00001 | - | < 0.00001        | < 0.00001 | < 0.00001 | - |
| Molybdenum          |      |      | mg/L | 0.02638   | - | 0.026     | - | 0.026            | 0.023     | 0.0305    | - |
| Nickel              |      |      | mg/L | 0.02603   | - | 0.025     | - | 0.024            | 0.026     | 0.0291    | - |
| Selenium            |      |      | mg/L | 0.00193   | - | 0.0019    | - | 0.0019           | 0.0019    | 0.00200   | - |
| Silver              |      |      | mg/L | 0.00018   | - | < 0.00020 | - | < 0.00020        | < 0.00020 | < 0.00010 | - |
| Strontium           |      |      | mg/L | 11.17500  | - | 11.3      | - | 11.2             | 10.3      | 11.9      | - |
| Sulphur             |      |      | mg/L | 295.25000 | - | 310       | - | 312              | 267       | 292       | - |
| Thallium            |      |      | mg/L | 0.00009   | - | < 0.00010 | - | < 0.00010        | < 0.00010 | 0.000079  | - |
| Tin                 |      |      | mg/L | 0.04375   | - | < 0.050   | - | < 0.050          | < 0.050   | < 0.025   | - |
| Titanium            |      |      | mg/L | 0.04375   | - | < 0.050   | - | < 0.050          | < 0.050   | < 0.025   | - |
| Uranium             |      |      | mg/L | 0.00380   | - | 0.0044    | - | 0.0042           | 0.0032    | 0.00340   | - |
| Vanadium            |      |      | mg/L | 0.04375   | - | < 0.050   | - | < 0.050          | < 0.050   | < 0.025   | - |
| Zinc                |      |      | mg/L | 0.04375   | - | < 0.050   | - | < 0.050          | < 0.050   | < 0.025   | - |
| WQ08- Radionuclides |      |      |      |           |   |           |   |                  |           |           |   |
| Radium-226          | 1.11 | 0.37 | Bq/l | 0.0810    | - | 0.080     | - | 0.050            | 0.074     | 0.12      | - |
| WQ09- Toxicity      |      |      |      |           |   |           |   |                  |           |           |   |
| Acute tox           |      |      | %    | -         | - | -         | - | Non-lethal       | -         | -         | - |
| Sublethal tox       |      |      | -    | -         | - | -         | - | Not received yet | -         | -         | - |

| MEL-SR1                           | MEL-SR MAX GRAB (WSEEP/RO) | MEL-SR MAX MEAN (WSEEP/RO) | Sample date | Monthly Average | 8/2/2021 | 8/8/2021 | 8/12/2021 | 8/31/2021 |
|-----------------------------------|----------------------------|----------------------------|-------------|-----------------|----------|----------|-----------|-----------|
| Parameter                         |                            |                            | Unit        |                 |          |          |           |           |
| WQ01- Field Measured              |                            |                            |             |                 |          |          |           |           |
| Turbidity                         |                            |                            | NTU         | 215.12          | 2.83     | 1.64     | 640.00    | 2.52      |
| WQ02- Conventional Parameters     |                            |                            |             |                 |          |          |           |           |
| pH                                | 9.5                        | 9.5                        | pH units    | 8.16            | 8.20     | 8.12     | 8.09      | 8.21      |
| Turbidity                         |                            |                            | NTU         | 32.78           | 0.3      | 0.2      | 130       | 0.6       |
| Hardness, as CaCO3 (T)            |                            |                            | mg/L        | 440.00          | 427      | 467      | 469       | 397       |
| TDS, calculated                   |                            |                            | mg/L        | 697.50          | 690      | 770      | 680       | 650       |
| TDS                               |                            |                            | mg/L        | 725.00          | 620      | 890      | 770       | 620       |
| TSS                               | 100                        | 50                         | mg/L        | 76.00           | 1        | 1        | 300       | 2         |
| Total alkalinity, as CaCO3        |                            |                            | mg/L        | 195.00          | 200      | 210      | 150       | 220       |
| WQ03- Major Ions                  |                            |                            |             |                 |          |          |           |           |
| Calcium (E200.8)                  |                            |                            | mg/L        | 128.00          | -        | -        | 126       | 130       |
| Chloride (SM4500-Cl-)             |                            |                            | mg/L        | 175.00          | 160      | 210      | 200       | 130       |
| Cyanide                           |                            |                            | mg/L        | 0.005           | < 0.0050 | < 0.0050 | < 0.0050  | < 0.0050  |
| Fluoride                          |                            |                            | mg/L        | 0.12            | 0.12     | 0.12     | 0.11      | 0.14      |
| Magnesium (E200.8)                |                            |                            | mg/L        | 21.50           | -        | -        | 20.5      | 22.5      |
| Potassium (E200.8)                |                            |                            | mg/L        | 11.85           | -        | -        | 11.9      | 11.8      |
| Sodium (E200.8)                   |                            |                            | mg/L        | 75.00           | -        | -        | 72.7      | 77.3      |
| Sulfate (E375.4)                  |                            |                            | mg/L        | 157.50          | 170      | 160      | 150       | 150       |
| Silica                            |                            |                            | mg/L        | 2.75            | 2.9      | 2.9      | 3.0       | 2.2       |
| WQ04- Nutrients and Chlorophyll a |                            |                            |             |                 |          |          |           |           |
| Total ammonia-N                   |                            |                            | mg/L        | 0.14            | 0.095    | 0.19     | 0.21      | 0.065     |
| Nitrate                           |                            |                            | mg/L        | 0.21            | 0.14     | 0.25     | 0.27      | 0.18      |
| Nitrite                           |                            |                            | mg/L        | 0.011           | < 0.010  | 0.015    | < 0.010   | < 0.010   |
| Nitrate + nitrite                 |                            |                            | mg/L        | 0.21            | 0.14     | 0.26     | 0.27      | 0.18      |
| Total phosphorus                  |                            |                            | mg/L        | 0.08            | < 0.020  | < 0.020  | 0.21      | 0.058     |
| Orthophosphate (P)                |                            |                            | mg/L        | 0.01            | < 0.010  | < 0.010  | < 0.010   | < 0.010   |

| <b>WQ05- General Organics</b> |  |  |             |         |            |            |          |            |
|-------------------------------|--|--|-------------|---------|------------|------------|----------|------------|
| Total oil and grease          |  |  | <b>mg/L</b> | 0.50    | < 0.50     | < 0.50     | < 0.50   | < 0.50     |
| <b>WQ06- Total Metals</b>     |  |  |             |         |            |            |          |            |
| Aluminum                      |  |  | <b>mg/L</b> | 2.71693 | 0.0140     | 0.0223     | 10.8     | 0.0314     |
| Arsenic                       |  |  | <b>mg/L</b> | 0.00609 | 0.00261    | 0.00313    | 0.0156   | 0.00301    |
| Barium                        |  |  | <b>mg/L</b> | 0.08200 | 0.0522     | 0.0633     | 0.163    | 0.0495     |
| Cadmium                       |  |  | <b>mg/L</b> | 0.00003 | 0.000014   | 0.000025   | 0.000066 | 0.000015   |
| Chromium                      |  |  | <b>mg/L</b> | 0.01730 | < 0.0010   | < 0.0010   | 0.0662   | < 0.0010   |
| Copper                        |  |  | <b>mg/L</b> | 0.01093 | 0.00388    | 0.00390    | 0.0318   | 0.00414    |
| Iron                          |  |  | <b>mg/L</b> | 4.53775 | 0.057      | 0.082      | 17.9     | 0.112      |
| Lead                          |  |  | <b>mg/L</b> | 0.00270 | < 0.00020  | < 0.00020  | 0.0102   | < 0.00020  |
| Manganese                     |  |  | <b>mg/L</b> | 0.07678 | 0.0114     | 0.0211     | 0.256    | 0.0186     |
| Mercury                       |  |  | <b>mg/L</b> | 0.00003 | < 0.00001  | < 0.00001  | 0.00009  | < 0.00001  |
| Molybdenum                    |  |  | <b>mg/L</b> | 0.00113 | < 0.0010   | < 0.0010   | 0.0015   | 0.0010     |
| Nickel                        |  |  | <b>mg/L</b> | 0.02335 | 0.0149     | 0.0205     | 0.0386   | 0.0194     |
| Selenium                      |  |  | <b>mg/L</b> | 0.00011 | 0.00010    | < 0.00010  | 0.00015  | 0.00010    |
| Silver                        |  |  | <b>mg/L</b> | 0.00002 | < 0.000020 | < 0.000020 | 0.000028 | < 0.000020 |
| Thallium                      |  |  | <b>mg/L</b> | 0.00005 | 0.000010   | 0.000012   | 0.000182 | < 0.000010 |
| Zinc                          |  |  | <b>mg/L</b> | 0.03630 | 0.0172     | 0.0300     | 0.0792   | 0.0188     |



| MEL-SR7                                  | MEL-SR MAX<br>GRAB<br>(WSEEP/RO) | MEL-SR MAX<br>MEAN<br>(WSEEP/RO) | Sample date | 8/12/2021 |
|------------------------------------------|----------------------------------|----------------------------------|-------------|-----------|
| Parameter                                |                                  |                                  | Unit        |           |
| Turbidity                                |                                  |                                  | NTU         | 10.6      |
| <b>WQ02- Conventional Parameters</b>     |                                  |                                  |             |           |
| pH                                       | 9.5                              | 9.5                              | pH units    | 8.01      |
| Turbidity                                |                                  |                                  | NTU         | 4.8       |
| Hardness, as CaCO <sub>3</sub> (T)       |                                  |                                  | mg/L        | 562       |
| TDS, calculated                          |                                  |                                  | mg/L        | 1000      |
| TDS                                      |                                  |                                  | mg/L        | 1080      |
| TSS                                      | 100                              | 50                               | mg/L        | 5         |
| Total alkalinity, as CaCO <sub>3</sub>   |                                  |                                  | mg/L        | 160       |
| <b>WQ03- Major Ions</b>                  |                                  |                                  |             |           |
| Calcium                                  |                                  |                                  | mg/L        | 167       |
| Chloride                                 |                                  |                                  | mg/L        | 360       |
| Cyanide                                  |                                  |                                  | mg/L        | < 0.0050  |
| Fluoride                                 |                                  |                                  | mg/L        | < 0.10    |
| Magnesium                                |                                  |                                  | mg/L        | 32.6      |
| Potassium                                |                                  |                                  | mg/L        | 14.3      |
| Sodium                                   |                                  |                                  | mg/L        | 120       |
| Sulfate                                  |                                  |                                  | mg/L        | 220       |
| Silica                                   |                                  |                                  | mg/L        | 3.7       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                                  |                                  |             |           |
| Total ammonia-N                          |                                  |                                  | mg/L        | 0.13      |
| Nitrate                                  |                                  |                                  | mg/L        | 0.27      |
| Nitrite                                  |                                  |                                  | mg/L        | < 0.010   |
| Nitrate + nitrite                        |                                  |                                  | mg/L        | 0.27      |
| Total phosphorus                         |                                  |                                  | mg/L        | < 0.020   |
| 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        | 0.137     |
| Arsenic                                  |                                  |                                  | mg/L        | 0.00596   |
| Barium                                   |                                  |                                  | mg/L        | 0.0654    |
| Cadmium                                  |                                  |                                  | mg/L        | 0.000030  |
| Chromium                                 |                                  |                                  | mg/L        | 0.0013    |
| Copper                                   |                                  |                                  | mg/L        | 0.00497   |
| Iron                                     |                                  |                                  | mg/L        | 0.369     |
| Lead                                     |                                  |                                  | mg/L        | < 0.00020 |
| Manganese                                |                                  |                                  | mg/L        | 0.0691    |
| Mercury                                  |                                  |                                  | mg/L        | < 0.00001 |
| Molybdenum                               |                                  |                                  | mg/L        | < 0.0010  |

|          |  |  |      |            |
|----------|--|--|------|------------|
| Nickel   |  |  | mg/L | 0.0127     |
| Selenium |  |  | mg/L | 0.00012    |
| Silver   |  |  | mg/L | < 0.000020 |
| Thallium |  |  | mg/L | 0.000028   |
| Zinc     |  |  | mg/L | < 0.0050   |

| MEL-SR11                                 | MEL-SR MAX GRAB (WSEEP/RO) | MEL-SR MAX MEAN (WSEEP/RO) | Sample date | 8/12/2021 |
|------------------------------------------|----------------------------|----------------------------|-------------|-----------|
| Parameter                                |                            |                            | Unit        |           |
| <b>WQ01- Field Measured</b>              |                            |                            |             |           |
| Turbidity                                |                            |                            | NTU         | 10.6      |
| <b>WQ02- Conventional Parameters</b>     |                            |                            |             |           |
| pH                                       | 9.5                        | 9.5                        | pH units    | 8.10      |
| Turbidity                                |                            |                            | NTU         | 0.9       |
| Hardness, as CaCO <sub>3</sub> (T)       |                            |                            | mg/L        | 332       |
| TDS, calculated                          |                            |                            | mg/L        | 720       |
| TDS                                      |                            |                            | mg/L        | 705       |
| TSS                                      | 100                        | 50                         | mg/L        | 10        |
| Total alkalinity, as CaCO <sub>3</sub>   |                            |                            | mg/L        | 160       |
| <b>WQ03- Major Ions</b>                  |                            |                            |             |           |
| Calcium                                  |                            |                            | mg/L        | 77.0      |
| Chloride                                 |                            |                            | mg/L        | 170       |
| Cyanide                                  |                            |                            | mg/L        | < 0.0050  |
| Fluoride                                 |                            |                            | mg/L        | 0.28      |
| Magnesium                                |                            |                            | mg/L        | 30.3      |
| Potassium                                |                            |                            | mg/L        | 14.3      |
| Sodium                                   |                            |                            | mg/L        | 121       |
| Sulfate                                  |                            |                            | mg/L        | 200       |
| Silica                                   |                            |                            | mg/L        | 4.1       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                            |                            |             |           |
| Total ammonia-N                          |                            |                            | mg/L        | 0.063     |
| Nitrate                                  |                            |                            | mg/L        | 1.86      |
| Nitrite                                  |                            |                            | mg/L        | < 0.010   |
| Nitrate + nitrite                        |                            |                            | mg/L        | 1.86      |
| Total phosphorus                         |                            |                            | mg/L        | 0.039     |
| 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        | 0.0759    |
| Arsenic                                  |                            |                            | mg/L        | 0.00183   |
| Barium                                   |                            |                            | mg/L        | 0.0298    |

|            |  |  |      |            |
|------------|--|--|------|------------|
| Cadmium    |  |  | mg/L | 0.000016   |
| Chromium   |  |  | mg/L | < 0.0010   |
| Copper     |  |  | mg/L | 0.00298    |
| Iron       |  |  | mg/L | 0.232      |
| Lead       |  |  | mg/L | < 0.00020  |
| Manganese  |  |  | mg/L | 0.0039     |
| Mercury    |  |  | mg/L | 0.00001    |
| Molybdenum |  |  | mg/L | 0.0070     |
| Nickel     |  |  | mg/L | 0.0042     |
| Selenium   |  |  | mg/L | 0.00032    |
| Silver     |  |  | mg/L | < 0.000020 |
| Thallium   |  |  | mg/L | < 0.000010 |
| Zinc       |  |  | mg/L | < 0.0050   |

| <b>MEL-SRA40</b>                         | <b>MEL-SR MAX GRAB (WSEEP/RO)</b> | <b>MEL-SR MAX MEAN (WSEEP/RO)</b> | <b>Sample date</b> | <b>Monthly Average</b> | 8/22/2021 | 8/22/2021 | 8/23/2021 |
|------------------------------------------|-----------------------------------|-----------------------------------|--------------------|------------------------|-----------|-----------|-----------|
| <b>Parameter</b>                         |                                   |                                   | <b>Unit</b>        |                        |           |           |           |
| <b>WQ02- Conventional Parameters</b>     |                                   |                                   |                    |                        |           |           |           |
| pH                                       | 9.5                               | 9.5                               | <b>pH units</b>    | 7.67                   | 7.42      | 7.78      | 7.81      |
| Turbidity                                |                                   |                                   | <b>NTU</b>         | 18                     | 48        | 2.4       | 2.8       |
| Hardness, as CaCO3 (T)                   |                                   |                                   | <b>mg/L</b>        | 214                    | 269       | 187       | 185       |
| TDS, calculated                          |                                   |                                   | <b>mg/L</b>        | 333                    | 430       | 280       | 290       |
| TDS                                      |                                   |                                   | <b>mg/L</b>        | 478                    | 605       | 420       | 410       |
| TSS                                      | 100                               | 50                                | <b>mg/L</b>        | 56                     | 160       | 5         | 3         |
| Total alkalinity, as CaCO3               |                                   |                                   | <b>mg/L</b>        | 59                     | 51        | 66        | 60        |
| <b>WQ03- Major Ions</b>                  |                                   |                                   |                    |                        |           |           |           |
| Calcium                                  |                                   |                                   | <b>mg/L</b>        | 61.43                  | 72.1      | 56.2      | 56        |
| Chloride                                 |                                   |                                   | <b>mg/L</b>        | 109                    | 140       | 92        | 96        |
| Cyanide                                  |                                   |                                   | <b>mg/L</b>        | 0.0050                 | < 0.0050  | < 0.0050  | < 0.0050  |
| Fluoride                                 |                                   |                                   | <b>mg/L</b>        | 0.10                   | < 0.10    | < 0.10    | < 0.10    |
| Magnesium                                |                                   |                                   | <b>mg/L</b>        | 13.4                   | 18.7      | 10.6      | 10.8      |
| Potassium                                |                                   |                                   | <b>mg/L</b>        | 3.99                   | 5.48      | 3.25      | 3.24      |
| Sodium                                   |                                   |                                   | <b>mg/L</b>        | 30.7                   | 41.4      | 24.7      | 26        |
| Sulfate                                  |                                   |                                   | <b>mg/L</b>        | 78                     | 120       | 57        | 57        |
| Silica                                   |                                   |                                   | <b>mg/L</b>        | 1.4                    | 2.2       | 0.86      | 1.1       |
| <b>WQ04- Nutrients and Chlorophyll a</b> |                                   |                                   |                    |                        |           |           |           |
| Total ammonia-N                          |                                   |                                   | <b>mg/L</b>        | 0.22                   | 0.25      | 0.12      | 0.3       |
| Nitrate                                  |                                   |                                   | <b>mg/L</b>        | 0.29                   | 0.49      | 0.19      | 0.2       |
| Nitrite                                  |                                   |                                   | <b>mg/L</b>        | 0.012                  | 0.012     | < 0.010   | < 0.010   |
| Nitrate + nitrite                        |                                   |                                   | <b>mg/L</b>        | 0.30                   | 0.51      | 0.19      | 0.2       |
| Total phosphorus                         |                                   |                                   | <b>mg/L</b>        | 0.10                   | 0.18      | 0.026     | < 0.020   |
| Orthophosphate (P)                       |                                   |                                   | <b>mg/L</b>        | 0.010                  | < 0.010   | < 0.010   | < 0.010   |
| <b>WQ05- General Organics</b>            |                                   |                                   |                    |                        |           |           |           |
| Total oil and grease                     |                                   |                                   | <b>mg/L</b>        | 0.50                   | < 0.50    | < 0.50    | < 0.50    |

| <b>WQ06- Total Metals</b> |  |  |             |          |               |               |               |
|---------------------------|--|--|-------------|----------|---------------|---------------|---------------|
| Aluminum                  |  |  | <b>mg/L</b> | 0.415    | 1.14          | 0.0463        | 0.0583        |
| Arsenic                   |  |  | <b>mg/L</b> | 0.013    | 0.0274        | 0.00519       | 0.00556       |
| Barium                    |  |  | <b>mg/L</b> | 0.073    | 0.0993        | 0.061         | 0.0601        |
| Cadmium                   |  |  | <b>mg/L</b> | 0.000    | 0.000062      | 0.000151      | <<br>0.000010 |
| Chromium                  |  |  | <b>mg/L</b> | 0.003    | 0.0026        | < 0.0010      | < 0.0010      |
| Copper                    |  |  | <b>mg/L</b> | 0.004    | 0.009         | 0.0027        | 0.00168       |
| Iron                      |  |  | <b>mg/L</b> | 1.378    | 3.35          | 0.353         | 0.432         |
| Lead                      |  |  | <b>mg/L</b> | 0.003    | 0.00258       | < 0.00020     | < 0.00020     |
| Manganese                 |  |  | <b>mg/L</b> | 0.114    | 0.289         | 0.0253        | 0.0263        |
| Mercury                   |  |  | <b>mg/L</b> | 0.000    | 0.0003        | 0.00007       | 0.00005       |
| Molybdenum                |  |  | <b>mg/L</b> | 0.001    | < 0.0010      | < 0.0010      | < 0.0010      |
| Nickel                    |  |  | <b>mg/L</b> | 0.0044   | 0.0089        | 0.0021        | 0.0022        |
| Selenium                  |  |  | <b>mg/L</b> | 0.00010  | < 0.00010     | < 0.00010     | < 0.00010     |
| Silver                    |  |  | <b>mg/L</b> | 0.000020 | <<br>0.000020 | <<br>0.000020 | <<br>0.000020 |
| Thallium                  |  |  | <b>mg/L</b> | 0.000025 | 0.000025      | < 0.00001     | < 0.00001     |
| Zinc                      |  |  | <b>mg/L</b> | 0.010    | 0.01          | < 0.005       | < 0.005       |

## **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 August 10<sup>th</sup>, 2021 the landfill contained approximately 13,587.7 m<sup>3</sup> of material.

In August 2021, approximately 1.8 m<sup>3</sup> of contaminated soil was transferred to the Type A Landfarm as a result of spills cleanup.

### **3.2 ORE**

Approximately 147,824 tonnes of ore were processed through the Mill in August 2021.

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

In August 2021, a total of 45,274 tonnes of waste rock was removed in the mine development process. 13,509 tonnes were used as underground dry rockfill.

### **3.4 TAILINGS**

123,971 dry tonnes of filtered tailings were sent to the Tailing Storage Facility in August 2021. 23,853 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 (9) are listed in the table 4.1 and were managed according to Agnico'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. No reportable spill occurred in August 2021.

**Table 4.1: Summary of Agnico's Spill Reports in August 2021**

| <b>Date and time of occurrence</b>       | <b>If material not listed in dropdown or more details, enter here</b> | <b>Estimated quantity (l)</b> | <b>Exact location of incident</b>  | <b>Description of incident</b>                                                                                                                                                                                                                                                                                                                                   | <b>Describe immediate corrective actions</b>                                                                             |
|------------------------------------------|-----------------------------------------------------------------------|-------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Monday, August 02, 2021<br>4:00:00 PM    | Hydraulic Oil                                                         | 20.00                         | TIRI01                             | A hydraulic hose failed on a drill in operation Tiriganiaq Open Pit 1.                                                                                                                                                                                                                                                                                           | The equipment was stopped. Absorbent pads were used and disposed of according to procedure.                              |
| Thursday, August 05, 2021<br>1:00:00 PM  | Coolant                                                               | 1.00                          | Portal 1                           | During an inspection, a coolant spill was found underneath a parked pick-up truck in Portal 1 area.                                                                                                                                                                                                                                                              | Contaminated material was recovered in a pail and disposed of in Landfarm A.                                             |
| Friday, August 06, 2021<br>4:00:00 PM    | Hydraulic oil                                                         | 30.00                         | KCG Parking Area                   | The hydraulic system connecting a trailer to a truck failed, leading to the spill.                                                                                                                                                                                                                                                                               | The truck and hydraulic system were stopped. Absorbent pads were used and disposed of according to procedure.            |
| Saturday, August 14, 2021<br>11:00:00 AM | Methanol                                                              | 99.00                         | Inside Dion Dome (Mechanical Shop) | A methanol spill occurred when a telehandler operator did not notice that the equipment's forks were improperly placed while moving a pallet with a methanol barrel on it. It should be noted that the spill occurred inside a mechanical shop dome, and that the garage grounds are protected by a polypropylene membrane to help prevent ground contamination. | Absorbent pads were used to clean-up the spill and placed into Quatrex for disposal as hazmat.                           |
| Tuesday, August 17, 2021<br>7:30:00 PM   | Diesel Fuel                                                           | 20.00                         | Paste Plant Parking                | A fuel leak occurred on a pick-up truck in the paste plant parking lot.                                                                                                                                                                                                                                                                                          | Absorbent pads were used and disposed of according to procedure. A pail of contaminated material (gravel) was recovered. |

|                                                 |                  |       |                                 |                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                              |
|-------------------------------------------------|------------------|-------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Saturday,<br>August 21,<br>2021<br>3:00:00 PM   | Thinner          | 1.00  | Seacan at<br>the Transit<br>Pad | Approximately 1 L of thinner was spilled while trying to pick-up a fallen pallet on top of boxes of thinner in a seacan at the transit pad. The equipment's forks caught the top corner of a box and ripped it, along with the cap of the bottle of thinner. It should be noted that the spilled occurred inside the seacan. | Absorbent pads were used to clean-up the spill and were disposed of as hazmat, along with a contaminated cardboard box and plastic container.                                                                                |
| Friday,<br>August 27,<br>2021<br>9:30:00 AM     | Hydraulic<br>Oil | 30.00 | Meliadine<br>Esker              | Hydraulic oil spilled from an excavator in operation.                                                                                                                                                                                                                                                                        | The equipment was stopped. Contaminated material was recovered and brought to Landfarm A.                                                                                                                                    |
| Sunday,<br>August 29,<br>2021<br>12:00:00<br>AM | Hydraulic<br>Oil | 0.10  | Drill 19-0906,<br>Landfarm B    | Hydraulic line dripped oil from drill 19-0906 at Landfarm B.                                                                                                                                                                                                                                                                 | The equipment was stopped. The ruptured hydraulic line was replaced. Absorbent pads were deployed to prevent further contamination and disposed of as hazmat. Contaminated material was recovered and brought to Landfarm A. |
| Tuesday,<br>August 31,<br>2021<br>1:30:00 AM    | Engine Oil       | 2.00  | M2-2312<br>Drill#2 (SH-<br>85)  | Oil leaked from coupling point of hydraulic line. It should be noted this spill occurred inside the drill on the floor of the equipment and did not reach the ground.                                                                                                                                                        | The equipment was stopped. Absorbent pads were used and disposed of as hazmat.                                                                                                                                               |