# Meliadine Gold Mine
# NWB 2AM-MEL1631
# May 2024 Monthly Report

**Prepared for:**
Nunavut Water Board

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

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# SECTION 1 • BACKGROUND

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 May 2024.

# SECTION 2 • WATER MANAGEMENT

## 2.1 WATER USAGE

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

**Table 2.1: Summary of the monthly water usage in 2024**

| Usage | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | 2024 Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEL-11[1] | $m^3$ | 46,859 | 40,057 | 43,273 | 42,794 | 33,136 | - | - | - | - | - | - | - | 206,119 |
| Dust suppression[2] | $m^3$ | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | 0 |
| Dust suppression[3] | $m^3$ | 0 | 0 | 0 | 0 | 579 | - | - | - | - | - | - | - | 579 |

## 2.2 DEWATERING ACTIVITIES

No dewatering activities took place during the month.

## 2.3 WATER DISCHARGE

Table 2.3 details monthly water discharge, including:

- discharge from the EWTP to Meliadine Lake via the Final Discharge Point (MEL-14);
- discharge of treated saline effluent to Melvin Bay via the Final Discharge Point (MEL-26), and
- discharge from the Itivia fuel containment facility (MEL-25).

[1] Camp, Mill, Dust suppression

[2] Water obtained along AWAR/Meliadine River

[3] Reclaim water obtained from CP1 or other Contact Water management facilities and used for dust suppression on site

**Table 2.3: Summary of the monthly water discharge in 2024**

| Location | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | 2024 Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEL-14 | $m^3$ | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | 0 |
| MEL-26 | $m^3$ | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | 0 |
| MEL-25 | $m^3$ | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | 0 |

No discharge activities took place during the month.

## 2.4 SEEPAGE AND RUNOFF FROM THE LANDFILL AND LANDFARM

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

As per the approved Landfill (Stage 4) Berm Raise Design Report and Monitoring station MEL-24 description Modification, water accumulated inside the landfill is pumped towards Pond H13, which is the current location seepage from the landfill flows towards.

## 2.5 SEWAGE TREATMENT PLANT

Table 2.5 details monthly discharge from the Sewage Treatment Plant (STP), including the treated wastewater discharge to CP1 and sludge removed and disposed of in the WRSF.

**Table 2.5: Summary of the monthly disposal/discharge from the STP in 2024**

| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | 2024 Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wastewater Discharge ($m^3$) | | 4,350 | 5,270 | 6,070 | 5,777 | 4,131 | - | - | - | - | - | - | - | 25,598 |
| Sewage Sludge | Amount ($m^3$) | 100 | 100 | 120 | 120 | 81.4 | - | - | - | - | - | - | - | 521.4 |
| | Disposal Location | WRSF3 | WRSF3 | WRSF3 | WRSF3 | WRSF3 | - | - | - | - | - | - | - | - |

## 2.6 MONITORING ANALYTICAL DATA

Ten (10) samples related to the Water Licence were taken during the month. The analytical results are presented in Appendix. One exceedance of the the Total Suspended Solids (TSS) effluent quality limits listed under Part D, Item 18 of the 2AMMEL1631 Water Licence occurred in May and is described in Table 4.1 below.

# SECTION 3 • MATERIAL MANAGEMENT

## 3.1 LANDFILL / LANDFARM

Table 3.1 details quarterly Landfill and Landfarm survey results, as well as the amount of material placed in the Landfarm every month.

**Table 3.1: Summary of the monthly disposal in the Landfarm and quarterly survey volumes of Landfill and Landfarm**

| Location | Unit | Q1 | | | Q2 | | | Q3 | | | Q4 | | | 2024 Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| Landfill (Survey) | $m^3$ | 28,127 | | | 26,087 | | | - | | | - | | | - |
| Landfarm (Survey) | $m^3$ | 604[4] | | | 537 | | | - | | | - | | | - |
| Landfarm[5] | $m^3$ | 1.8 | 0.02 | 3.25 | 7.28 | 2.3 | - | - | - | - | - | - | - | 14.65 |

[4] Latest Landfarm survey was conducted in October 2023. Surveys of the Landfarm are generally not conducted during the winter months, as the presence of snow would not allow a representative survey of the soil quantity.
[5] Amount of contaminated solid material (soil) placed in the Landfarm or lined sorting area.

## 3.2 ORE, WASTE ROCK STORAGE FACILITY, TAILINGS

Table 3.2 details monthly material management, including processed ore, waste rock, and tailings.

**Table 3.2: Summary of the monthly material management in 2024**

| Material (tonnes) | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | Cumulative 2024 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Processed Ore | | 190,946 | 154,435 | 156,820 | 166,561 | 113,952 | - | - | - | - | - | - | - | 782,714 |
| Waste Rock | Removed from open pit mining | 175,380 | 534,627 | 845,427 | 701,244 | 344,631 | - | - | - | - | - | - | - | 2,601,309 |
| | Removed from underground mining | 71,281[6] | 67,267 | 73,926 | 87,413 | 54,382 | - | - | - | - | - | - | - | 354,270 |
| | Used as underground dry rockfill | 49,823 | 31,805 | 10,566 | 31,716 | 18,233 | - | - | - | - | - | - | - | 142,143 |
| Tailings | Send to TSF | 144,379 | 107,392 | 111,857 | 125,769 | 83,808 | - | - | - | - | - | - | - | 573,205 |
| | Used as paste underground backfill | 46,567 | 47,043 | 44,963 | 40,792 | 30,144 | - | - | - | - | - | - | - | 209,509 |

[6] January waste rock removed from underground mining was updated in February report

# SECTION 4 SPILL MANAGEMENT

## 4.1 INTERNAL AND REPORTABLE SPILLS

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

**Table 4.1: Summary of Agnico Eagle's Spill Reports during the month**

| Date and time of occurrence | Contaminant | Estimated quantity | Exact location of incident | Description of incident | Describe immediate corrective actions |
|---|---|---|---|---|---|
| Thursday, May 02, 2024 7:30:00 AM | Hydraulic Oil | 5 L | KCG Parking (down line) | An O-ring seal on a speed sensor of a dump truck failed resulting in a 5 L spill of hydraulic oil. The speed sensor was replaced the night prior, and hydraulic oil had been slowly dripping through the O-ring over a period of approximately 6 hours. | Spill pads were deployed to recover the spill and disposed of in the appropriate bin. |
| Friday, May 03, 2024 10:00:00 AM | Treated sewage | 30 L | STP | An estimated 30 L of sewage was spilled onto the industrial pad at the Sewage Treatment Plant (STP). During routine treated sewage collection at the STP, the vacuum truck was parked on a slope, resulting in the operator filling it over its capacity due to an inaccurate visual level check. Once over capacity, the function of the sewage truck vacuum pump could no longer vacuum sewage. Unaware of this, the sewage truck operator attempted to initiate the pump to remove the residual sewage in the vacuum hose, causing a pressure release and a spill of residual sewage in the vacuum hose. | The Energy and Infrastructure and Environment department responded to the spill location for remediation. An excavator was used to excavate the ground surface, and the recovered material was brought to Landfarm A as per the Spill Contingency Plan. |

| | | | | | |
|---|---|---|---|---|---|
| Saturday, May 04, 2024 8:00:00 AM | Compressor oil | 2 L | STP | A compressor was taken out of storage to replace a faulty aeration fan at the sewage treatment plant. There was some oil in the compressor compartment, which was covered by snow. As the compressor warmed up, the snow melted and flowed out the back of the compressor compartment, resulting in a 2L spill of compressor oil. | Absorbent pads were deployed to collect the spill and were disposed of in the appropriate bin. Contaminated material was scrapped and disposed of at the landfarm. |
| Saturday, May 04, 2024 10:30:00 AM | POLYMER HYDREX 6105 ANIONIC | 0.50 L | TRANIST PAD | A worker noticed a spill of Polymer Hydrex 6105 Anionic on the transit pad. Examination of the safety data sheet for this chemical showed that it poses no risk to the environment and is not regulated as a dangerous good. | Contaminated material was scrapped and disposed of in the appropriate bin. |
| Monday, May 06, 2024 10:30:00 AM | Hydraulic oil | 4 L | Tiri01 | A hydraulic hose failed on a haul truck resulting in a 4L spill of hydraulic oil. | Operator stopped the engine. The machine was immobilized for repair. Spill pads were used and disposed of as hazmat. |
| Tuesday, May 07, 2024 9:30:00 AM | Coolant | 20 L | Pump road & Tiri 1 | A coolant hose broke on a haul truck, causing the spill. | Operator stopped the engine. The machine was immobilized for repair. Spill pads were used and disposed of as hazmat. |
| Tuesday, May 07, 2024 7:30:00 PM | Sewage | 1 $m^3$ | STP | An estimated 1$m^3$ of sewage was spilled onto the industrial pad of the Sewage Treatment Plant (STP) during planned maintenance activities. The maintenance activities included isolating the aerobic tank to inspect and repair a diffuser located within the tank bottom. During an attempt to restart the STP after maintenance activities were complete, a programming issue | The STP operator acted to stop the spill while his supervisor contacted the instrumentation team to bypass the faults and restart the STP. Once the spill was under control a vacuum truck was dispatched to collect the free-standing liquid inside the plant. Additionally, the ground surface was excavated, and the recovered material was transported to Landfarm A in |

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| | | | | caused a partial shutdown of the STP while it continued to receive sewage inflow resulting in an in an overflow of the Equalization Tank (EQ) and the spill. | accordance with the Spill Contingency Plan. |
| Wednesday, May 08, 2024 10:00:00 AM | Hydraulic oil | 1 L | Near Open Pit maintenance shop | Workers noticed oil leaking from a pickup truck's stabilizer in the parking lot. | Absorbent pads were deployed to collect the spill and were disposed of in the appropriate bin. Contaminated material was scrapped and disposed of at the landfarm. |
| Thursday, May 09, 2024 10:00:00 AM | Hydraulic oil | 0.50 L | B59 Lake | A drill helper filled the 2 L fuel tank for the freshwater pump the morning of the spill event. However, it was later discovered by the drill helper that the fuel cap was not completely secured, allowing the fuel tank to leak into the secondary containment. Much of the spilled fuel was absorbed by hydrocarbon absorbent pads that were in place beneath the pump within a small containment as a proactive measure. The secondary containment was compromised, allowing diesel-contaminated water to leak outside of the containment and onto the surface of Lake B59. | The surface of Lake B59 was frozen at the time of the spill, allowing most of the diesel-contaminated water to be recovered from the shallow and isolated pool of water in the spill area.<br>As spill kits are co-located with any hydrocarbon storage locations, absorbent pads and booms were immediately deployed on and around the pooled water to absorb the hydrocarbon sheen. A pump was used to skim the pooled water and remove as much of the sheen as possible. Approximately 90 L of the diesel-contaminated water was recovered. |

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|---|---|---|---|---|---|
| Saturday, May 11, 2024 6:00:00 AM | Engine coolant | 15 L | KCG parking ditch | While refueling equipment, a worker noticed a coolant leak under a haul truck resulting in a 15L spill of engine coolant. | Secondary containment was installed under the equipment to catch the leaking coolant. Contaminated material was scrapped and disposed of in the appropriate bin. |
| Saturday, May 18, 2024 4:00:00 PM | Total Suspended Solids | 330 mg/L | Mel-SR1 Culvert at Itivia | Surface runoff was observed at monitoring station MEL-SR-1, located at the south end of the Itivia site. Field turbidity measurements indicated a potential exceedance of the TSS effluent quality limits listed under Part D, Item 18 of the 2AMMEL1631 Water Licence. Samples were collected at monitoring station MEL-SR-1 and sent to an external laboratory for analysis. Upstream monitoring indicated that sediment-laden runoff was entering the Itivia lease boundary and was not a result of the activities or infrastructure within the Itivia lease. Analytical results reported a concentration of 330 mg/L TSS, above the allowable TSS effluent quality limits listed under Part D, Item 18 of the 2AM-MEL1631 Water Licence. | In response to the elevated field turbidity readings and as per the Sediment and Erosion Management Plan, erosion and sediment control (ESC) measures were deployed to complement the existing rock check dams and settling basin, to reduce the sediment load in the water flowing through the Itivia site. Combinations of ESC measures were installed and maintained at specific locations where erosion and sedimentation were observed on the evening of May 18th. These installations were monitored and maintained throughout the runoff event and the following two days after, on May 19th and May 20th. Both visual and analytical monitoring demonstrated the efficacy of these measures in reducing TSS at the MEL-SR-1 monitoring location. |

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|---|---|---|---|---|---|
| Tuesday, May 21, 2024 5:00:00 PM | Contact water | 100 L | Channel 4 | It was noted during a routine inspection of water management infrastructure that water was overflowing the berm of Channel 4, releasing approximately 100 L of water onto the tundra. The incident was a result of accumulated snowmelt within Channel 4 during freshet. | Upon discovering the overflow, Environment department personnel took water quality field readings and collected a water quality sample to be analyzed by an accredited lab. A sample was also collected for internal analysis of Total Suspended Solids (TSS) concentration at the Meliadine assay lab to provide an immediate indication of water quality. Results from the assay lab and external lab samples indicated TSS was below criteria listed under Part D, Item 18 of the Licence. |
| Friday, May 24, 2024 1:00:00 PM | Process Thickener water | 70 $m^3$ | Industrial Pad Outside the Process Plant | An estimated total of 70 m3 of process thickener water was spilled onto the industrial pad outside the Process Plant. During the restart of the Process Plant after a shutdown, the thickener underflow slurry was being recirculated to the thickener feed well, outside of the Process Plant. Regular thickener feed flow from the process was being used to increase thickener underflow density prior to feeding the CIL circuit. The tanks overflow launder collection pipe, which returns overflow thickener water to the process water tank, was restricted due to the build-up of scale in the pipes. As process water and flocculant were being added to the thickener to increase density during recirculation, the inflow to the thickener tank | The control room operator received a radio call notifying them of thickener process water overflowing from the tank outside the Process Plant berm. Upon receiving this notification, the Process Plant supervisor contacted the grinding operator to validate the spill. In response, the control room operator took immediate action by maximizing the underflow pump flow rate and increasing the flocculant addition to raise the underflow density to further increase the underflow pumps flow rate. These measures stopped the overflow. The contaminated ground was excavated, and the excess water from the grinding thickener launders was collected in the containment berm. All contaminated material was brought |

| | | | | | |
|---|---|---|---|---|---|
| | | | | was greater than the return flow to the process water tank due to the pipe restriction. This resulted in the thickener launder overflowing, spilling an initial 35 $m^3$ of process thickener water onto the ground. Later in the day an additional 35 $m^3$ was spilled in these same circumstances. | back to the Process Plant and recirculated into the system. |
| Friday, May 24, 2024 4:30:00 PM | Hydraulic Oil | 5 L | OP2 | The haul truck's rear strut was damaged resulting on a 5L spill of hydraulic oil. | Absorbent pads were deployed to collect the spill and were disposed of in the appropriate bin. Contaminated material was scrapped and disposed of at the landfarm. |
| Wednesday, May 29, 2024 4:30:00 AM | Hydraulic Oil | 86 L | WRSF3 Crushing Pad | While operating the crusher, a threaded fitting (pressure sensor) detached itself, resulting in a spill of hydraulic oil from the pressurized line the fitting was attached to. The spill sprayed onto the conveyor belt which spread some of the hydraulic oil onto a small quantity of crusher rejects (fine material). | The crusher detected the loss of pressure and stopped itself immediately through automation. The spill was contained by sorting material around the crusher. Spill pads were used and disposed of as hazmat. |
| Friday, May 31, 2024 11:05:00 AM | Hydraulic Oil | 15 L | Tiri01 | While mucking in the Tiri 1 open pit, a leak of hydraulic oil was detected on an excavator. The crimp on a hydraulic line failed. | Operator stopped the engine. The machine was immobilized for repair. Spill pads were used and disposed of as hazmat. |

# Appendix – Monitoring Analytical Data

| MEL-11 | | 5/7/2024 |
|---|---|---|
| **Parameter** | **Unit** | |
| **WQ02- Conventional Parameters** | | |
| pH | **pH units** | 7.28 |
| Turbidity | **NTU** | 0.1 |
| Conductivity | **ms/cm** | 0.132 |
| Hardness, as CaCO3 | **mg/L** | - |
| Total alkalinity, as CaCO3 | **mg/L** | 27 |
| Carbonate, as CaCO3 | **mg/L** | < 1.0 |
| Bicarbonate, as CaCO3 | **mg/L** | 27 |
| TDS | **mg/L** | 85 |
| TDS, calculated | **mg/L** | 65 |
| TSS | **mg/L** | < 1 |
| Total organic carbon | **mg/L** | 3.5 |
| Dissolved organic carbon | **mg/L** | 3.3 |
| **WQ03- Major Ions** | | |
| Chloride | **mg/L** | 17 |
| Cyanide | **mg/L** | < 0.00050 |
| Cyanide (free) | **mg/L** | < 0.0020 |
| Cyanide (WAD) | **mg/L** | < 0.00050 |
| Silica | **mg/L** | 0.71 |
| Sulfate | **mg/L** | 8.1 |
| **WQ04- Nutrients and Chlorophyll a** | | |
| Ammonia Nitrogen (as N) | **mg/L** | < 0.050 |
| Nitrate (as N) | **mg/L** | < 0.10 |
| Nitrite (as N) | **mg/L** | < 0.010 |
| Total Kjeldahl nitrogen | **mg/L** | 0.21 |
| Total phosphorus | **mg/L** | < 0.020 |
| Orthophosphate (P) | **mg/L** | < 0.010 |
| **WQ06- Total Metals** | | |
| Aluminum | **mg/L** | < 0.0030 |
| Antimony | **mg/L** | < 0.00050 |
| Arsenic | **mg/L** | 0.00061 |
| Barium | **mg/L** | 0.0120 |
| Beryllium | **mg/L** | < 0.00010 |
| Boron | **mg/L** | < 0.050 |
| Cadmium | **mg/L** | < 0.000010 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00084 |
| Iron | **mg/L** | 0.016 |

| | | |
|---|---|---|
| Lead | **mg/L** | < 0.00020 |
| Lithium | **mg/L** | < 0.0020 |
| Manganese | **mg/L** | 0.0040 |
| 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** | 0.0590 |
| 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 |
| **WQ07- Dissolved Metals** | | |
| Aluminum | **mg/L** | < 0.0030 |
| Antimony | **mg/L** | < 0.00050 |
| Arsenic | **mg/L** | 0.00064 |
| Barium | **mg/L** | 0.0133 |
| Beryllium | **mg/L** | < 0.00010 |
| Boron | **mg/L** | < 0.050 |
| Cadmium | **mg/L** | < 0.000010 |
| Calcium (Dissolved) | **mg/L** | 11.7 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00094 |
| Iron | **mg/L** | 0.0092 |
| Lead | **mg/L** | < 0.00020 |
| Lithium | **mg/L** | < 0.0020 |
| Magnesium (Dissolved) | **mg/L** | 2.03 |
| Manganese | **mg/L** | < 0.0010 |
| Mercury | **mg/L** | < 0.00001 |
| Molybdenum | **mg/L** | < 0.0010 |
| Nickel | **mg/L** | < 0.0010 |
| Potassium (Dissolved) | **mg/L** | 1.41 |
| Selenium | **mg/L** | < 0.00010 |
| Silver | **mg/L** | < 0.000020 |
| Sodium (Dissolved) | **mg/L** | 8.62 |
| Strontium | **mg/L** | 0.0649 |
| 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 |
| **WQ10- Volatile Organics** | | |
| 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** | - |
| F1 (C6-C10) | **mg/L** | - |
| F2 (C10-C16) | **mg/L** | < 0.1 |
| F3 (C16-C34) | **mg/L** | < 0.2 |
| F4 (C34-C50) | **mg/L** | < 0.2 |

| **MEL-15** | | 5/26/2024 |
|---|---|---|
| **Parameter** | **Unit** | |
| **WQ02- Conventional Parameters** | | |
| pH | **pH units** | 7.06 |
| Turbidity | **NTU** | 1.2 |
| Conductivity | **ms/cm** | 0.053 |
| Hardness, as CaCO3 | **mg/L** | - |
| Total alkalinity, as CaCO3 | **mg/L** | 14 |
| Carbonate, as CaCO3 | **mg/L** | < 1.0 |
| Bicarbonate, as CaCO3 | **mg/L** | 14 |
| TDS | **mg/L** | 50 |
| TDS, calculated | **mg/L** | 25 |
| TSS | **mg/L** | 2 |
| Total organic carbon | **mg/L** | 4.9 |
| Dissolved organic carbon | **mg/L** | 4.0 |
| **WQ03- Major Ions** | | |
| Chloride | **mg/L** | 3.3 |
| Cyanide | **mg/L** | < 0.00050 |
| Cyanide (free) | **mg/L** | < 0.0020 |
| Cyanide (WAD) | **mg/L** | < 0.00050 |
| Silica | **mg/L** | 0.49 |
| Sulfate | **mg/L** | 4.2 |
| **WQ04- Nutrients and Chlorophyll a** | | |
| Ammonia Nitrogen (as N) | **mg/L** | < 0.050 |
| Nitrate (as N) | **mg/L** | < 0.10 |
| Nitrite (as N) | **mg/L** | < 0.010 |
| Total Kjeldahl nitrogen | **mg/L** | 0.33 |

| | | |
|---|---|---|
| Total phosphorus | **mg/L** | < 0.020 |
| Orthophosphate (P) | **mg/L** | < 0.010 |
| **WQ06- Total Metals** | | |
| Aluminum | **mg/L** | 0.0440 |
| Antimony | **mg/L** | < 0.00050 |
| Arsenic | **mg/L** | 0.0189 |
| Barium | **mg/L** | 0.0067 |
| Beryllium | **mg/L** | < 0.00010 |
| Boron | **mg/L** | < 0.050 |
| Cadmium | **mg/L** | < 0.000010 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00074 |
| Iron | **mg/L** | 0.138 |
| Lead | **mg/L** | 0.00086 |
| Lithium | **mg/L** | < 0.0020 |
| Manganese | **mg/L** | 0.0517 |
| 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** | 0.0260 |
| 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 |
| **WQ07- Dissolved Metals** | | |
| Aluminum | **mg/L** | 0.0067 |
| Antimony | **mg/L** | < 0.00050 |
| Arsenic | **mg/L** | 0.0159 |
| Barium | **mg/L** | 0.0070 |
| Beryllium | **mg/L** | < 0.00010 |
| Boron | **mg/L** | < 0.050 |
| Cadmium | **mg/L** | < 0.000010 |
| Calcium (Dissolved) | **mg/L** | 5.85 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00074 |
| Iron | **mg/L** | 0.0524 |
| Lead | **mg/L** | 0.00025 |
| Lithium | **mg/L** | < 0.0020 |
| Magnesium (Dissolved) | **mg/L** | 0.774 |
| Manganese | **mg/L** | 0.0601 |

| | | |
|---|---|---|
| Mercury | **mg/L** | < 0.00001 |
| Molybdenum | **mg/L** | < 0.0010 |
| Nickel | **mg/L** | < 0.0010 |
| Potassium (Dissolved) | **mg/L** | 0.693 |
| Selenium | **mg/L** | < 0.00010 |
| Silver | **mg/L** | < 0.000020 |
| Sodium (Dissolved) | **mg/L** | 1.75 |
| Strontium | **mg/L** | 0.0275 |
| 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** | | 5/26/2024 |
|---|---|---|
| **Parameter** | **Unit** | |
| **WQ02- Conventional Parameters** | | |
| pH | **pH units** | 7.08 |
| Turbidity | **NTU** | 1.3 |
| Conductivity | **ms/cm** | 0.031 |
| Hardness, as CaCO3 | **mg/L** | - |
| Total alkalinity, as CaCO3 | **mg/L** | 8.7 |
| Carbonate, as CaCO3 | **mg/L** | < 1.0 |
| Bicarbonate, as CaCO3 | **mg/L** | 8.7 |
| TDS | **mg/L** | 50 |
| TDS, calculated | **mg/L** | 14 |
| TSS | **mg/L** | 1 |
| Total organic carbon | **mg/L** | 3.1 |
| Dissolved organic carbon | **mg/L** | 2.6 |
| **WQ03- Major Ions** | | |
| Chloride | **mg/L** | 1.7 |
| Cyanide | **mg/L** | 0.00064 |
| Cyanide (free) | **mg/L** | < 0.0020 |
| Cyanide (WAD) | **mg/L** | 0.00088 |
| Silica | **mg/L** | 0.28 |
| Sulfate | **mg/L** | 2.1 |
| **WQ04- Nutrients and Chlorophyll a** | | |
| Ammonia Nitrogen (as N) | **mg/L** | < 0.050 |
| Nitrate (as N) | **mg/L** | < 0.10 |

| | | |
|---|---|---|
| Nitrite (as N) | **mg/L** | < 0.010 |
| Total Kjeldahl nitrogen | **mg/L** | 0.19 |
| Total phosphorus | **mg/L** | < 0.020 |
| Orthophosphate (P) | **mg/L** | < 0.010 |
| **WQ06- Total Metals** | | |
| Aluminum | **mg/L** | 0.0361 |
| Antimony | **mg/L** | < 0.00050 |
| Arsenic | **mg/L** | 0.0345 |
| Barium | **mg/L** | 0.0068 |
| Beryllium | **mg/L** | < 0.00010 |
| Boron | **mg/L** | < 0.050 |
| Cadmium | **mg/L** | < 0.000010 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00073 |
| Iron | **mg/L** | 0.142 |
| Lead | **mg/L** | 0.00109 |
| Lithium | **mg/L** | < 0.0020 |
| Manganese | **mg/L** | 0.0470 |
| 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** | 0.0149 |
| 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 |
| **WQ07- Dissolved Metals** | | |
| Aluminum | **mg/L** | 0.0102 |
| Antimony | **mg/L** | < 0.00050 |
| Arsenic | **mg/L** | 0.0316 |
| Barium | **mg/L** | 0.0074 |
| Beryllium | **mg/L** | < 0.00010 |
| Boron | **mg/L** | < 0.050 |
| Cadmium | **mg/L** | < 0.000010 |
| Calcium (Dissolved) | **mg/L** | 3.48 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00083 |
| Iron | **mg/L** | 0.0638 |
| Lead | **mg/L** | 0.00030 |
| Lithium | **mg/L** | < 0.0020 |

| | | |
|---|---|---|
| Magnesium (Dissolved) | **mg/L** | 0.468 |
| Manganese | **mg/L** | 0.0524 |
| Mercury | **mg/L** | < 0.00001 |
| Molybdenum | **mg/L** | < 0.0010 |
| Nickel | **mg/L** | < 0.0010 |
| Potassium (Dissolved) | **mg/L** | 0.449 |
| Selenium | **mg/L** | < 0.00010 |
| Silver | **mg/L** | < 0.000020 |
| Sodium (Dissolved) | **mg/L** | 0.999 |
| Strontium | **mg/L** | 0.0169 |
| Thallium | **mg/L** | < 0.000010 |
| Tin | **mg/L** | < 0.0050 |
| Titanium | **mg/L** | < 0.0050 |
| Uranium | **mg/L** | < 0.00010 |
| Vanadium | **mg/L** | < 0.0050 |
| Zinc | **mg/L** | < 0.0050 |

| **MEL-17** | | 5/26/2024 |
|---|---|---|
| **Parameter** | **Unit** | |
| **WQ02- Conventional Parameters** | | |
| pH | **pH units** | 7.27 |
| Turbidity | **NTU** | 1.0 |
| Conductivity | **ms/cm** | 0.157 |
| Hardness, as CaCO3 | **mg/L** | - |
| Total alkalinity, as CaCO3 | **mg/L** | 25 |
| Carbonate, as CaCO3 | **mg/L** | < 1.0 |
| Bicarbonate, as CaCO3 | **mg/L** | 25 |
| TDS | **mg/L** | 110 |
| TDS, calculated | **mg/L** | 78 |
| TSS | **mg/L** | 2 |
| Total organic carbon | **mg/L** | 5.0 |
| Dissolved organic carbon | **mg/L** | 4.3 |
| **WQ03- Major Ions** | | |
| Chloride | **mg/L** | 15 |
| Cyanide | **mg/L** | < 0.00050 |
| Cyanide (free) | **mg/L** | 0.0030 |
| Cyanide (WAD) | **mg/L** | < 0.00050 |
| Silica | **mg/L** | 1.2 |
| Sulfate | **mg/L** | 22 |
| **WQ04- Nutrients and Chlorophyll a** | | |
| Ammonia Nitrogen (as N) | **mg/L** | < 0.050 |

| | | |
|---|---|---|
| Nitrate (as N) | **mg/L** | 0.13 |
| Nitrite (as N) | **mg/L** | < 0.010 |
| Total Kjeldahl nitrogen | **mg/L** | 0.25 |
| Total phosphorus | **mg/L** | 0.025 |
| Orthophosphate (P) | **mg/L** | < 0.010 |
| **WQ06- Total Metals** | | |
| Aluminum | **mg/L** | 0.0439 |
| Antimony | **mg/L** | < 0.00050 |
| Arsenic | **mg/L** | 0.00213 |
| 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** | 0.00075 |
| Iron | **mg/L** | 0.215 |
| Lead | **mg/L** | < 0.00020 |
| Lithium | **mg/L** | < 0.0020 |
| Manganese | **mg/L** | 0.0801 |
| 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** | 0.0826 |
| 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 |
| **WQ07- Dissolved Metals** | | |
| Aluminum | **mg/L** | 0.0073 |
| Antimony | **mg/L** | < 0.00050 |
| Arsenic | **mg/L** | 0.00203 |
| Barium | **mg/L** | 0.0172 |
| Beryllium | **mg/L** | < 0.00010 |
| Boron | **mg/L** | < 0.050 |
| Cadmium | **mg/L** | 0.000012 |
| Calcium (Dissolved) | **mg/L** | 15.6 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00089 |
| Iron | **mg/L** | 0.0798 |
| Lead | **mg/L** | < 0.00020 |
| Lithium | **mg/L** | 0.0022 |

| | | |
|---|---|---|
| Magnesium (Dissolved) | **mg/L** | 2.17 |
| Manganese | **mg/L** | 0.0810 |
| Mercury | **mg/L** | < 0.00001 |
| Molybdenum | **mg/L** | < 0.0010 |
| Nickel | **mg/L** | 0.0011 |
| Potassium (Dissolved) | **mg/L** | 1.31 |
| Selenium | **mg/L** | < 0.00010 |
| Silver | **mg/L** | < 0.000020 |
| Sodium (Dissolved) | **mg/L** | 5.85 |
| Strontium | **mg/L** | 0.111 |
| 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** | | 5/26/2024 |
|---|---|---|
| **Parameter** | **Unit** | |
| **WQ02- Conventional Parameters** | | |
| pH | **pH units** | 7.31 |
| Turbidity | **NTU** | 0.8 |
| Conductivity | **ms/cm** | 0.160 |
| Hardness, as CaCO3 | **mg/L** | - |
| Total alkalinity, as CaCO3 | **mg/L** | 26 |
| Carbonate, as CaCO3 | **mg/L** | < 1.0 |
| Bicarbonate, as CaCO3 | **mg/L** | 26 |
| TDS | **mg/L** | 105 |
| TDS, calculated | **mg/L** | 84 |
| TSS | **mg/L** | 2 |
| Total organic carbon | **mg/L** | 3.9 |
| Dissolved organic carbon | **mg/L** | 3.5 |
| **WQ03- Major Ions** | | |
| Chloride | **mg/L** | 17 |
| Cyanide | **mg/L** | < 0.00050 |
| Cyanide (free) | **mg/L** | < 0.0020 |
| Cyanide (WAD) | **mg/L** | 0.00083 |
| Silica | **mg/L** | 0.80 |
| Sulfate | **mg/L** | 23 |
| **WQ04- Nutrients and Chlorophyll a** | | |
| Ammonia Nitrogen (as N) | **mg/L** | 0.10 |

| | | |
|---|---|---|
| Nitrate (as N) | **mg/L** | 0.42 |
| Nitrite (as N) | **mg/L** | < 0.010 |
| Total Kjeldahl nitrogen | **mg/L** | 0.39 |
| Total phosphorus | **mg/L** | < 0.020 |
| Orthophosphate (P) | **mg/L** | < 0.010 |
| **WQ06- Total Metals** | | |
| Aluminum | **mg/L** | 0.157 |
| Antimony | **mg/L** | < 0.00050 |
| Arsenic | **mg/L** | 0.0120 |
| Barium | **mg/L** | 0.0133 |
| Beryllium | **mg/L** | < 0.00010 |
| Boron | **mg/L** | < 0.050 |
| Cadmium | **mg/L** | < 0.000010 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00113 |
| Iron | **mg/L** | 0.181 |
| Lead | **mg/L** | 0.00066 |
| Lithium | **mg/L** | 0.0020 |
| Manganese | **mg/L** | 0.0370 |
| 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** | 0.0743 |
| 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 |
| **WQ07- Dissolved Metals** | | |
| Aluminum | **mg/L** | 0.0050 |
| Antimony | **mg/L** | < 0.00050 |
| Arsenic | **mg/L** | 0.00987 |
| Barium | **mg/L** | 0.0155 |
| Beryllium | **mg/L** | < 0.00010 |
| Boron | **mg/L** | < 0.050 |
| Cadmium | **mg/L** | < 0.000010 |
| Calcium (Dissolved) | **mg/L** | 14.8 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00090 |
| Iron | **mg/L** | 0.0641 |
| Lead | **mg/L** | < 0.00020 |
| Lithium | **mg/L** | 0.0023 |

| | | |
|---|---|---|
| Magnesium (Dissolved) | **mg/L** | 2.34 |
| Manganese | **mg/L** | 0.0412 |
| Mercury | **mg/L** | < 0.00001 |
| Molybdenum | **mg/L** | < 0.0010 |
| Nickel | **mg/L** | < 0.0010 |
| Potassium (Dissolved) | **mg/L** | 1.53 |
| Selenium | **mg/L** | < 0.00010 |
| Silver | **mg/L** | < 0.000020 |
| Sodium (Dissolved) | **mg/L** | 8.66 |
| Strontium | **mg/L** | 0.0874 |
| Thallium | **mg/L** | < 0.000010 |
| Tin | **mg/L** | < 0.0050 |
| Titanium | **mg/L** | < 0.0050 |
| Uranium | **mg/L** | < 0.00010 |
| Vanadium | **mg/L** | < 0.0050 |
| Zinc | **mg/L** | < 0.0050 |

| **MEL-19** | | 5/26/2024 |
|---|---|---|
| **Parameter** | **Unit** | |
| **WQ02- Conventional Parameters** | | |
| pH | **pH units** | 7.69 |
| Turbidity | **NTU** | 10 |
| Hardness, as CaCO3 | **mg/L** | - |
| Total alkalinity, as CaCO3 | **mg/L** | 37 |
| TDS | **mg/L** | 195 |
| TDS, calculated | **mg/L** | 170 |
| TSS | **mg/L** | 14 |
| **WQ03- Major Ions** | | |
| Chloride | **mg/L** | 44 |
| Cyanide | **mg/L** | 0.00145 |
| Fluoride | **mg/L** | < 0.10 |
| Silica | **mg/L** | 0.80 |
| Sulfate | **mg/L** | 45 |
| **WQ04- Nutrients and Chlorophyll a** | | |
| Ammonia Nitrogen (as N) | **mg/L** | 0.47 |
| Nitrate (as N) | **mg/L** | 1.08 |
| Nitrite (as N) | **mg/L** | 0.012 |
| Total phosphorus | **mg/L** | 0.021 |
| Orthophosphate (P) | **mg/L** | < 0.010 |
| **WQ06- Total Metals** | | |
| Aluminum | **mg/L** | 0.229 |

| | | |
|---|---|---|
| Arsenic | **mg/L** | 0.0125 |
| Barium | **mg/L** | 0.0076 |
| Cadmium | **mg/L** | < 0.000010 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00135 |
| Iron | **mg/L** | 0.385 |
| Lead | **mg/L** | 0.00100 |
| Manganese | **mg/L** | 0.0448 |
| Mercury | **mg/L** | < 0.00001 |
| Molybdenum | **mg/L** | 0.0013 |
| Nickel | **mg/L** | 0.0053 |
| Selenium | **mg/L** | 0.00019 |
| Silver | **mg/L** | < 0.000020 |
| Thallium | **mg/L** | - |
| Zinc | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | |
| Calcium (Dissolved) | **mg/L** | 23.5 |
| Magnesium (Dissolved) | **mg/L** | 5.08 |
| Potassium (Dissolved) | **mg/L** | 3.48 |
| Sodium (Dissolved) | **mg/L** | 26.6 |

| **MEL-20** | | 5/26/2024 |
|---|---|---|
| **Parameter** | **Unit** | |
| **WQ02- Conventional Parameters** | | |
| pH | **pH units** | 7.64 |
| Turbidity | **NTU** | 5.9 |
| Hardness, as CaCO3 | **mg/L** | - |
| Total alkalinity, as CaCO3 | **mg/L** | 52 |
| TDS | **mg/L** | 740 |
| TDS, calculated | **mg/L** | 690 |
| TSS | **mg/L** | 11 |
| **WQ03- Major Ions** | | |
| Chloride | **mg/L** | 220 |
| Cyanide | **mg/L** | 0.0945 |
| Fluoride | **mg/L** | < 0.10 |
| Silica | **mg/L** | 1.2 |
| Sulfate | **mg/L** | 160 |
| **WQ04- Nutrients and Chlorophyll a** | | |
| Ammonia Nitrogen (as N) | **mg/L** | 5.3 |
| Nitrate (as N) | **mg/L** | 12.9 |

| | | |
|---|---|---|
| Nitrite (as N) | **mg/L** | 0.149 |
| Total phosphorus | **mg/L** | 0.022 |
| Orthophosphate (P) | **mg/L** | 0.015 |
| **WQ06- Total Metals** | | |
| Aluminum | **mg/L** | 0.208 |
| Arsenic | **mg/L** | 0.181 |
| Barium | **mg/L** | 0.0182 |
| Cadmium | **mg/L** | 0.000029 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.0130 |
| Iron | **mg/L** | 0.730 |
| Lead | **mg/L** | 0.00923 |
| Manganese | **mg/L** | 0.141 |
| Mercury | **mg/L** | < 0.00001 |
| Molybdenum | **mg/L** | 0.0038 |
| Nickel | **mg/L** | 0.0092 |
| Selenium | **mg/L** | 0.00145 |
| Silver | **mg/L** | 0.000037 |
| Thallium | **mg/L** | - |
| Zinc | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | |
| Calcium (Dissolved) | **mg/L** | 59.0 |
| Magnesium (Dissolved) | **mg/L** | 19.0 |
| Potassium (Dissolved) | **mg/L** | 11.0 |
| Sodium (Dissolved) | **mg/L** | 134 |

| **MEL-21** | | 5/26/2024 |
|---|---|---|
| **Parameter** | **Unit** | |
| **WQ02- Conventional Parameters** | | |
| pH | **pH units** | 7.86 |
| Turbidity | **NTU** | 6.7 |
| Hardness, as CaCO3 | **mg/L** | - |
| Total alkalinity, as CaCO3 | **mg/L** | 58 |
| TDS | **mg/L** | 390 |
| TDS, calculated | **mg/L** | 330 |
| TSS | **mg/L** | 7 |
| **WQ03- Major Ions** | | |
| Chloride | **mg/L** | 66 |
| Cyanide | **mg/L** | 0.0909 |
| Fluoride | **mg/L** | < 0.10 |
| Silica | **mg/L** | 1.4 |
| Sulfate | **mg/L** | 110 |

| WQ04- Nutrients and Chlorophyll a | | |
|---|---|---|
| Ammonia Nitrogen (as N) | **mg/L** | 0.78 |
| Nitrate (as N) | **mg/L** | 1.90 |
| Nitrite (as N) | **mg/L** | 0.033 |
| Total phosphorus | **mg/L** | 0.044 |
| Orthophosphate (P) | **mg/L** | 0.014 |
| **WQ06- Total Metals** | | |
| Aluminum | **mg/L** | 0.158 |
| Arsenic | **mg/L** | 0.232 |
| Barium | **mg/L** | 0.0101 |
| Cadmium | **mg/L** | < 0.000010 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.0209 |
| Iron | **mg/L** | 0.480 |
| Lead | **mg/L** | 0.00611 |
| Manganese | **mg/L** | 0.0321 |
| Mercury | **mg/L** | < 0.00001 |
| Molybdenum | **mg/L** | 0.0047 |
| Nickel | **mg/L** | 0.0048 |
| Selenium | **mg/L** | 0.00075 |
| Silver | **mg/L** | < 0.000020 |
| Thallium | **mg/L** | - |
| Zinc | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | |
| Calcium (Dissolved) | **mg/L** | 51.8 |
| Magnesium (Dissolved) | **mg/L** | 10.3 |
| Potassium (Dissolved) | **mg/L** | 5.76 |
| Sodium (Dissolved) | **mg/L** | 42.4 |

| **MEL-22** | | 5/26/2024 |
|---|---|---|
| **Parameter** | **Unit** | |
| **WQ02- Conventional Parameters** | | |
| pH | **pH units** | 7.75 |
| Turbidity | **NTU** | 3.9 |
| Hardness, as CaCO3 | **mg/L** | - |
| Total alkalinity, as CaCO3 | **mg/L** | 70 |
| TDS | **mg/L** | 1480 |
| TDS, calculated | **mg/L** | 990 |
| TSS | **mg/L** | 56 |
| **WQ03- Major Ions** | | |
| Chloride | **mg/L** | 400 |

| | | |
|---|---|---|
| Cyanide | **mg/L** | 0.00152 |
| Fluoride | **mg/L** | < 0.10 |
| Silica | **mg/L** | 2.0 |
| Sulfate | **mg/L** | 210 |
| **WQ04- Nutrients and Chlorophyll a** | | |
| Ammonia Nitrogen (as N) | **mg/L** | 1.1 |
| Nitrate (as N) | **mg/L** | 1.52 |
| Nitrite (as N) | **mg/L** | 0.039 |
| Total phosphorus | **mg/L** | 0.035 |
| Orthophosphate (P) | **mg/L** | < 0.010 |
| **WQ06- Total Metals** | | |
| Aluminum | **mg/L** | 0.320 |
| Arsenic | **mg/L** | 0.00793 |
| Barium | **mg/L** | 0.0322 |
| Cadmium | **mg/L** | 0.000032 |
| Chromium | **mg/L** | 0.0012 |
| Copper | **mg/L** | 0.00356 |
| Iron | **mg/L** | 0.973 |
| Lead | **mg/L** | 0.00087 |
| Manganese | **mg/L** | 0.346 |
| Mercury | **mg/L** | < 0.00001 |
| Molybdenum | **mg/L** | 0.0028 |
| Nickel | **mg/L** | 0.0143 |
| Selenium | **mg/L** | 0.00016 |
| Silver | **mg/L** | < 0.000020 |
| Thallium | **mg/L** | - |
| Zinc | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | |
| Calcium (Dissolved) | **mg/L** | 155 |
| Magnesium (Dissolved) | **mg/L** | 31.8 |
| Potassium (Dissolved) | **mg/L** | 12.7 |
| Sodium (Dissolved) | **mg/L** | 132 |

| **MEL-23** | | 5/26/2024 |
|---|---|---|
| **Parameter** | **Unit** | |
| **WQ01- Field Measured** | | |
| Temperature | **°C** | 2.3 |
| pH | **pH units** | 7.35 |
| Conductivity | **uS/cm** | 309.6 |
| Dissolved oxygen | **mg/L** | 18.42 |
| Dissolved oxygen | **%** | 134.5 |
| Turbidity | **NTU** | 17.7 |

| | | |
|---|---|---|
| **WQ02- Conventional Parameters** | | |
| pH | **pH units** | 7.70 |
| Turbidity | **NTU** | 7.3 |
| Hardness, as CaCO3 | **mg/L** | - |
| Total alkalinity, as CaCO3 | **mg/L** | 38 |
| TDS | **mg/L** | 200 |
| TDS, calculated | **mg/L** | 190 |
| TSS | **mg/L** | 7 |
| **WQ03- Major Ions** | | |
| Chloride | **mg/L** | 43 |
| Cyanide | **mg/L** | 0.00120 |
| Fluoride | **mg/L** | < 0.10 |
| Silica | **mg/L** | 1.0 |
| Sulfate | **mg/L** | 59 |
| **WQ04- Nutrients and Chlorophyll a** | | |
| Ammonia Nitrogen (as N) | **mg/L** | 0.45 |
| Nitrate (as N) | **mg/L** | 0.94 |
| Nitrite (as N) | **mg/L** | < 0.010 |
| Total phosphorus | **mg/L** | < 0.020 |
| Orthophosphate (P) | **mg/L** | < 0.010 |
| **WQ06- Total Metals** | | |
| Aluminum | **mg/L** | 0.162 |
| Arsenic | **mg/L** | 0.0144 |
| Barium | **mg/L** | 0.0068 |
| Cadmium | **mg/L** | < 0.000010 |
| Chromium | **mg/L** | < 0.0010 |
| Copper | **mg/L** | 0.00102 |
| Iron | **mg/L** | 0.313 |
| Lead | **mg/L** | 0.00112 |
| Manganese | **mg/L** | 0.0385 |
| Mercury | **mg/L** | < 0.00001 |
| Molybdenum | **mg/L** | 0.0016 |
| Nickel | **mg/L** | 0.0064 |
| Selenium | **mg/L** | 0.00017 |
| Silver | **mg/L** | < 0.000020 |
| Thallium | **mg/L** | - |
| Zinc | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | |
| Calcium (Dissolved) | **mg/L** | 23.9 |
| Magnesium (Dissolved) | **mg/L** | 6.98 |
| Potassium (Dissolved) | **mg/L** | 3.56 |
| Sodium (Dissolved) | **mg/L** | 27.2 |

| | | | Sample date | 5/28/2024 |
|---|---|---|---|---|
| | | | Sample name | MEL-SR-21 |
| | | | Sample type | N |
| Parameter | MEL-SR MAX GRAB (WSEEP/RO) | MEL-SR MAX MEAN (WSEEP/RO) | Unit | |
| **WQ01- Field Measured** | | | | |
| Turbidity | | | **NTU** | 15 |
| **WQ02- Conventional Parameters** | | | | |
| pH | | | **pH units** | 7.51 |
| Turbidity | | | **NTU** | 0.7 |
| Hardness, as CaCO3 | | | **mg/L** | - |
| Total alkalinity, as CaCO3 | | | **mg/L** | 58 |
| TDS | | | **mg/L** | 110 |
| TDS, calculated | | | **mg/L** | 84 |
| TSS | 100 | 50 | **mg/L** | 10 |
| **WQ03- Major Ions** | | | | |
| Chloride | | | **mg/L** | 3.2 |
| Cyanide | | | **mg/L** | < 0.00050 |
| Fluoride | | | **mg/L** | < 0.10 |
| Silica | | | **mg/L** | 1.7 |
| Sulfate | | | **mg/L** | 15 |
| **WQ04- Nutrients and Chlorophyll a** | | | | |
| Ammonia Nitrogen (as N) | | | **mg/L** | 0.058 |
| Nitrate (as N) | | | **mg/L** | 0.27 |
| Nitrite (as N) | | | **mg/L** | < 0.010 |
| Total phosphorus | | | **mg/L** | 0.041 |
| Orthophosphate (P) | | | **mg/L** | 0.014 |
| **WQ05- General Organics** | | | | |
| Total oil and grease | | | **mg/L** | < 0.50 |
| **WQ06- Total Metals** | | | | |
| Aluminum | | | **mg/L** | 0.0472 |
| Arsenic | | | **mg/L** | 0.00866 |
| Barium | | | **mg/L** | 0.0131 |
| Cadmium | | | **mg/L** | < 0.000010 |
| Chromium | | | **mg/L** | < 0.0010 |
| Copper | | | **mg/L** | 0.00200 |
| Iron | | | **mg/L** | 0.099 |
| Lead | | | **mg/L** | 0.00024 |
| Manganese | | | **mg/L** | 0.0151 |
| 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 |
| Thallium | | | **mg/L** | - |
| Zinc | | | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | | | |
| Calcium (Dissolved) | | | **mg/L** | 21.2 |
| Magnesium (Dissolved) | | | **mg/L** | 3.07 |
| Potassium (Dissolved) | | | **mg/L** | 4.02 |
| Sodium (Dissolved) | | | **mg/L** | 1.90 |

| | | | | **Sample date** | 5/25/2024 |
|---|---|---|---|---|---|
| | | | | **Sample name** | MEL-SR15 |
| | | | | **Sample type** | N |
| **Parameter** | **MEL-SR MAX GRAB (WSEEP/RO)** | **MEL-SR MAX MEAN (WSEEP/RO)** | **Unit** | | |
| **WQ01- Field Measured** | | | | | |
| Turbidity | | | **NTU** | | 35 |
| **WQ02- Conventional Parameters** | | | | | |
| pH | | | **pH units** | | 7.13 |
| Turbidity | | | **NTU** | | 0.8 |
| Hardness, as CaCO3 | | | **mg/L** | | - |
| Total alkalinity, as CaCO3 | | | **mg/L** | | 15 |
| TDS | | | **mg/L** | | 60 |
| TDS, calculated | | | **mg/L** | | 50 |
| TSS | 100 | 50 | **mg/L** | | 1 |
| **WQ03- Major Ions** | | | | | |
| Chloride | | | **mg/L** | | 18 |
| Cyanide | | | **mg/L** | | < 0.00050 |
| Fluoride | | | **mg/L** | | < 0.10 |
| Silica | | | **mg/L** | | 0.39 |
| Sulfate | | | **mg/L** | | 5.2 |
| **WQ04- Nutrients and Chlorophyll a** | | | | | |
| Ammonia Nitrogen (as N) | | | **mg/L** | | 0.075 |
| Nitrate (as N) | | | **mg/L** | | < 0.10 |
| Nitrite (as N) | | | **mg/L** | | < 0.010 |
| Total phosphorus | | | **mg/L** | | < 0.020 |
| Orthophosphate (P) | | | **mg/L** | | < 0.010 |
| **WQ05- General Organics** | | | | | |
| Total oil and grease | | | **mg/L** | | 1.1 |
| **WQ06- Total Metals** | | | | | |
| Aluminum | | | **mg/L** | | 0.0393 |
| Arsenic | | | **mg/L** | | 0.00302 |

| | | | | |
|---|---|---|---|---|
| Barium | | | **mg/L** | 0.0070 |
| Cadmium | | | **mg/L** | < 0.000010 |
| Chromium | | | **mg/L** | < 0.0010 |
| Copper | | | **mg/L** | 0.00072 |
| Iron | | | **mg/L** | 0.119 |
| Lead | | | **mg/L** | 0.00024 |
| Manganese | | | **mg/L** | 0.0126 |
| 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 |
| Thallium | | | **mg/L** | - |
| Zinc | | | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | | | |
| Calcium (Dissolved) | | | **mg/L** | 7.11 |
| Magnesium (Dissolved) | | | **mg/L** | 1.60 |
| Potassium (Dissolved) | | | **mg/L** | 1.29 |
| Sodium (Dissolved) | | | **mg/L** | 8.73 |

| | | | **Sample date** | 5/28/2024 |
|---|---|---|---|---|
| | | | **Sample name** | MEL-SR-18 |
| | | | **Sample type** | N |
| **Parameter** | **MEL-SR MAX GRAB (WSEEP/RO)** | **MEL-SR MAX MEAN (WSEEP/RO)** | **Unit** | |
| **WQ01- Field Measured** | | | | |
| Turbidity | | | **NTU** | 30 |
| **WQ02- Conventional Parameters** | | | | |
| pH | | | **pH units** | 7.03 |
| pH | 9.5 | 9.5 | **pH units** | - |
| Turbidity | | | **NTU** | 12 |
| Hardness, as CaCO3 | | | **mg/L** | - |
| Total alkalinity, as CaCO3 | | | **mg/L** | 9.1 |
| TDS | | | **mg/L** | 25 |
| TDS, calculated | | | **mg/L** | 16 |
| TSS | 100 | 50 | **mg/L** | 11 |
| **WQ03- Major Ions** | | | | |
| Chloride | | | **mg/L** | 1.5 |
| Cyanide | | | **mg/L** | < 0.00050 |
| Fluoride | | | **mg/L** | < 0.10 |
| Silica | | | **mg/L** | 0.12 |
| Sulfate | | | **mg/L** | 2.8 |
| **WQ04- Nutrients and Chlorophyll a** | | | | |
| Ammonia Nitrogen (as N) | | | **mg/L** | 0.13 |

| | | | | |
|---|---|---|---|---|
| Nitrate (as N) | | | **mg/L** | 0.14 |
| Nitrite (as N) | | | **mg/L** | < 0.010 |
| Total phosphorus | | | **mg/L** | < 0.020 |
| Orthophosphate (P) | | | **mg/L** | < 0.010 |
| **WQ05- General Organics** | | | | |
| Total oil and grease | | | **mg/L** | < 0.50 |
| **WQ06- Total Metals** | | | | |
| Aluminum | | | **mg/L** | 0.418 |
| Arsenic | | | **mg/L** | 0.00430 |
| Barium | | | **mg/L** | 0.0072 |
| Cadmium | | | **mg/L** | < 0.000010 |
| Chromium | | | **mg/L** | 0.0012 |
| Copper | | | **mg/L** | 0.00198 |
| Iron | | | **mg/L** | 0.727 |
| Lead | | | **mg/L** | 0.00092 |
| Manganese | | | **mg/L** | 0.0206 |
| Mercury | | | **mg/L** | < 0.00001 |
| Molybdenum | | | **mg/L** | < 0.0010 |
| Nickel | | | **mg/L** | 0.0011 |
| Selenium | | | **mg/L** | < 0.00010 |
| Silver | | | **mg/L** | < 0.000020 |
| Titanium | | | **mg/L** | 0.0177 |
| Zinc | | | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | | | |
| Calcium (Dissolved) | | | **mg/L** | 4.24 |
| Magnesium (Dissolved) | | | **mg/L** | 0.372 |
| Potassium (Dissolved) | | | **mg/L** | 0.447 |
| Sodium (Dissolved) | | | **mg/L** | 1.04 |

| | | | | |
|---|---|---|---|---|
| | | | **Sample date** | 5/26/2024 |
| | | | **Sample name** | MEL-SR19[7] |
| | | | **Sample type** | N |
| **Parameter** | **MEL-SR MAX GRAB (WSEEP/RO)** | **MEL-SR MAX MEAN (WSEEP/RO)** | **Unit** | |
| **WQ02- Conventional Parameters** | | | | |
| pH | | | **pH units** | 7.42 |
| Turbidity | | | **NTU** | 1.7 |
| Total alkalinity, as CaCO3 | | | **mg/L** | 44 |
| TDS | | | **mg/L** | 95 |
| TDS, calculated | | | **mg/L** | 85 |
| TSS | 100 | 50 | **mg/L** | 3 |
| **WQ03- Major Ions** | | | | |

[7] Station MEL-SR19 is a new monitoring station located at 15V 541772 E 6988850 N.

| | | | | |
|---|---|---|---|---|
| Chloride | | | **mg/L** | 16 |
| Cyanide | | | **mg/L** | < 0.00050 |
| Fluoride | | | **mg/L** | < 0.10 |
| Silica | | | **mg/L** | 0.96 |
| Sulfate | | | **mg/L** | 12 |
| **WQ04- Nutrients and Chlorophyll a** | | | | |
| Ammonia Nitrogen (as N) | | | **mg/L** | 0.12 |
| Nitrate (as N) | | | **mg/L** | < 0.10 |
| Nitrite (as N) | | | **mg/L** | < 0.010 |
| Total phosphorus | | | **mg/L** | < 0.020 |
| Orthophosphate (P) | | | **mg/L** | < 0.010 |
| **WQ05- General Organics** | | | | |
| Total oil and grease | | | **mg/L** | 0.80 |
| **WQ06- Total Metals** | | | | |
| Aluminum | | | **mg/L** | 0.0528 |
| Arsenic | | | **mg/L** | 0.00383 |
| Barium | | | **mg/L** | 0.0116 |
| Cadmium | | | **mg/L** | < 0.000010 |
| Chromium | | | **mg/L** | < 0.0010 |
| Copper | | | **mg/L** | 0.00072 |
| Iron | | | **mg/L** | 0.221 |
| Lead | | | **mg/L** | < 0.00020 |
| Manganese | | | **mg/L** | 0.0948 |
| 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 |
| Titanium | | | **mg/L** | < 0.0050 |
| Zinc | | | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | | | |
| Calcium (Dissolved) | | | **mg/L** | 17.4 |
| Magnesium (Dissolved) | | | **mg/L** | 3.15 |
| Potassium (Dissolved) | | | **mg/L** | 1.83 |
| Sodium (Dissolved) | | | **mg/L** | 7.92 |

| | | | | |
|---|---|---|---|---|
| | | | **Sample date** | 5/27/2024 |
| | | | **Sample name** | MEL-SR-20[8] |
| | | | **Sample type** | N |
| **Parameter** | **MEL-SR MAX GRAB (WSEEP/RO)** | **MEL-SR MAX MEAN (WSEEP/RO)** | **Unit** | |
| **WQ02- Conventional Parameters** | | | | |

[8] Station MEL-SR20 is a new monitoring station located at 15V 540964 E 6985958 N.

| | | | | |
|---|---|---|---|---|
| pH | | | **pH units** | 7.59 |
| Turbidity | | | **NTU** | 2.8 |
| Total alkalinity, as CaCO3 | | | **mg/L** | 83 |
| TDS | | | **mg/L** | 280 |
| TDS, calculated | | | **mg/L** | 240 |
| TSS | 100 | 50 | **mg/L** | 16 |
| **WQ03- Major Ions** | | | | |
| Chloride | | | **mg/L** | 55 |
| Cyanide | | | **mg/L** | < 0.00050 |
| Fluoride | | | **mg/L** | < 0.10 |
| Silica | | | **mg/L** | 3.6 |
| Sulfate | | | **mg/L** | 59 |
| **WQ04- Nutrients and Chlorophyll a** | | | | |
| Ammonia Nitrogen (as N) | | | **mg/L** | 0.64 |
| Nitrate (as N) | | | **mg/L** | 0.16 |
| Nitrite (as N) | | | **mg/L** | < 0.010 |
| Nitrate + nitrite (as N) | | | **mg/L** | 0.16 |
| Total phosphorus | | | **mg/L** | 0.034 |
| Orthophosphate (P) | | | **mg/L** | < 0.010 |
| **WQ05- General Organics** | | | | |
| Total oil and grease | | | **mg/L** | 0.80 |
| **WQ06- Total Metals** | | | | |
| Aluminum | | | **mg/L** | 0.275 |
| Arsenic | | | **mg/L** | 0.0236 |
| Barium | | | **mg/L** | 0.0357 |
| Cadmium | | | **mg/L** | 0.000016 |
| Chromium | | | **mg/L** | < 0.0010 |
| Copper | | | **mg/L** | 0.00351 |
| Iron | | | **mg/L** | 1.45 |
| Lead | | | **mg/L** | 0.00172 |
| Manganese | | | **mg/L** | 0.458 |
| Mercury | | | **mg/L** | < 0.00001 |
| Molybdenum | | | **mg/L** | < 0.0010 |
| Nickel | | | **mg/L** | 0.0030 |
| Selenium | | | **mg/L** | < 0.00010 |
| Silver | | | **mg/L** | < 0.000020 |
| Titanium | | | **mg/L** | 0.0058 |
| Zinc | | | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | | | |
| Calcium (Dissolved) | | | **mg/L** | 48.1 |
| Magnesium (Dissolved) | | | **mg/L** | 6.83 |
| Potassium (Dissolved) | | | **mg/L** | 3.03 |
| Sodium (Dissolved) | | | **mg/L** | 17.9 |

| | | | Sample date | 5/28/2024 |
|---|---|---|---|---|
| | | | Sample name | MEL-SR-21[9] |
| | | | Sample type | N |
| Parameter | MEL-SR MAX GRAB (WSEEP/RO) | MEL-SR MAX MEAN (WSEEP/RO) | Unit | |
| **WQ01- Field Measured** | | | | |
| Turbidity | | | **NTU** | 15 |
| **WQ02- Conventional Parameters** | | | | |
| pH | | | **pH units** | 7.51 |
| Turbidity | | | **NTU** | 0.7 |
| Hardness, as CaCO3 | | | **mg/L** | - |
| Total alkalinity, as CaCO3 | | | **mg/L** | 58 |
| TDS | | | **mg/L** | 110 |
| TDS, calculated | | | **mg/L** | 84 |
| TSS | 100 | 50 | **mg/L** | 10 |
| **WQ03- Major Ions** | | | | |
| Chloride | | | **mg/L** | 3.2 |
| Cyanide | | | **mg/L** | < 0.00050 |
| Fluoride | | | **mg/L** | < 0.10 |
| Silica | | | **mg/L** | 1.7 |
| Sulfate | | | **mg/L** | 15 |
| **WQ04- Nutrients and Chlorophyll a** | | | | |
| Ammonia Nitrogen (as N) | | | **mg/L** | 0.058 |
| Nitrate (as N) | | | **mg/L** | 0.27 |
| Nitrite (as N) | | | **mg/L** | < 0.010 |
| Total phosphorus | | | **mg/L** | 0.041 |
| Orthophosphate (P) | | | **mg/L** | 0.014 |
| **WQ05- General Organics** | | | | |
| Total oil and grease | | | **mg/L** | < 0.50 |
| **WQ06- Total Metals** | | | | |
| Aluminum | | | **mg/L** | 0.0472 |
| Arsenic | | | **mg/L** | 0.00866 |
| Barium | | | **mg/L** | 0.0131 |
| Cadmium | | | **mg/L** | < 0.000010 |
| Chromium | | | **mg/L** | < 0.0010 |
| Copper | | | **mg/L** | 0.00200 |
| Iron | | | **mg/L** | 0.099 |
| Lead | | | **mg/L** | 0.00024 |
| Manganese | | | **mg/L** | 0.0151 |

[9] Station MEL-SR21 is a new monitoring station located at 15V 542052 E 6989006 N.

| | | | | |
|---|---|---|---|---|
| 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 |
| Thallium | | | **mg/L** | - |
| Zinc | | | **mg/L** | < 0.0050 |
| **WQ07- Dissolved Metals** | | | | |
| Calcium (Dissolved) | | | **mg/L** | 21.2 |
| Magnesium (Dissolved) | | | **mg/L** | 3.07 |
| Potassium (Dissolved) | | | **mg/L** | 4.02 |
| Sodium (Dissolved) | | | **mg/L** | 1.90 |