AGNICO EAGLE
MELIADINE

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

Prepared for:
Nunavut Water Board

Prepared by:
Agnico Eagle Mines Limited – Meliadine Division

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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 October 2022.

WATER MANAGEMENT

1.1 WATER USAGE

Table 1.1 details monthly water usage approved under Water License 2AM-MEL1631:

Table 1.1: Summary of the monthly water usage in October 2022

	Monthly Usage (m^3)
Camp, Mill, Dust suppression (MEL-11)	44,461
Dust suppression (water obtained along AWAR/Meliadine River)	0
Total October	44,461
Year to date 2022	**380,580**

1.2 DEWATERING ACTIVITIES

No dewatering activities took place during the month.

1.3 MELIADINE DISCHARGE

Discharge from the EWTP into Meliadine Lake via the Final Discharge Point (MEL-14) started July 1st, 2022, and stopped September 25th,2022. No discharge to Meliadine Lake occurred during the month.

1.4 MELVIN BAY DISCHARGE

No discharge to Melvin Bay occurred during the month.

1.5 SEEPAGE AND RUNOFF FROM THE LANDFILL AND LANDFARM

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

1.6 SEWAGE TREATMENT PLANT

Approximately 4,866 m^3 of treated wastewater was discharged into CP1 during the month. Approximately 17.6 m^3 of sludge was removed during the month. The sludge is either disposed of in WRSF1 or WRSF3.

1.7 CONTAINMENTS

No discharge from the Itivia fuel containment facility (Station Mel-25) occurred during the month.

1.8 MONITORING ANALYTICAL DATA

Eleven (11) samples related to the Water Licence were taken during the month. The analytical results from these sampling events are presented in Appendix. No exceedance occurred in October 2022.

It should be noted that the total mercury result for sample collected at MEL-19 monitoring station on October 2nd is not available because the sampling bottle was received empty at the laboratory (it possibly leaked during shipping). Previous sampling events at MEL-19 showed total mercury results below detection limit (< 0.00001 mg/L) in 2022.

MATERIAL MANAGEMENT

1.9 LANDFILL / LANDFARM

The volume of material placed into the landfill is evaluated through periodic surveys. According to the most recent survey done on July 28th, 2022, the landfill contained approximately 20,526 m³ of material.

Approximately 3.5 m^3 of contaminated material was put into the Type A Landfarm during the month. According to the most recent survey done on August 5th, 2022, the Landfarm A contained approximately 522 m³ of material.

1.10 ORE

Approximately 150,856 tonnes of ore were processed through the Mill during the month.

1.11 WASTE ROCK STORAGE FACILITY

A total of 63,095 tonnes of waste rock was removed in the underground mine development process during the month while 428,673 tonnes of waste rock were removed from open pit mining. 42,796 tonnes were used as underground dry rockfill.

1.12 TAILINGS

106,550 dry tonnes of filtered tailings were sent to the Tailing Storage Facility during the month. 44,306 tonnes of tailings were used for paste underground backfill.

SECTION 4 SPILL MANAGEMENT

4.1 INTERNAL AND REPORTABLE SPILLS

Spills reported internally (10) 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. Two (2) reportable spills occurred during the month (Refer to grey shading in Table 4.1).

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

Date and time of occurrence	If material not listed in dropdown or more details, enter here	Estimated quantity	Exact location of incident	Description of incident	Describe immediate corrective actions
Thursday, October 06, 2022 8:00:00 AM	Hydraulic Oil	4 L	Front of wash bay	After being cleaned in the wash bay, an employee forgot to install the hydraulic cap on the cylinder of a scoop releasing 4 L of hydraulic oil on the ground.	Absorbent pads were deployed to collect free liquid. Contaminated material was also collected and brought inside the maintenance shop for disposal in the hazmat bin.
Thursday, October 06, 2022 1:00:00 PM	Engine Coolant	5 L	KM 25 on AWAR	An engine coolant hose failed, releasing approximately 5 L of coolant.	Contaminated soil was removed and disposed of properly.
Saturday, October 08, 2022 4:00:00 AM	Q-cell	1 KG	Module 1-2 outside emulsion plant	An employee was washing floors in the emulsion plant with water. Residual Q-cell was in the water/floor. The contaminated water leaked out of the plant and onto the ground.	The residual water in the emulsion plant was disposed of in the treated sump water tote.
Saturday, October 15, 2022 12:00:00 AM	Hydraulic Oil	250 L	HG PAD	During normal operations, haul truck 14 was offloading ore onto OP1 when the hydraulic pump pressure hose failed.	Spill absorbent pads were deployed to recover pooling surface oil and to contain the spill. The contaminated material was then excavated and directed to the primary crusher for processing through the process plant.

Tuesday, October 18, 2022 9:30:00 AM	Sewage	30 L	Sludge tank STP main camp	An estimated 30 L of untreated sewage was spilled on the industrial pad due to a miscommunication between two operators during sewage transfer from the sewage treatment plant (STP) sludge tank and the sewage vacuum truck.	Upon discovery of the spill, the operator stopped the power take off (PTO). All surface material was hand excavated and contained within a 76 L plastic tub. The material collected was then reworked through the main camp lift station for further treatment.
Tuesday, October 18, 2022 8:00:00 PM	Diesel Fuel	10 L	Paste Plant Cement laydown	Five-gallon diesel cans were being used to hold open cement doors. A gust of wind blew the door closed, knocking over a diesel can that was not closed properly.	Spill kit was used to contain spill. A skid steer was used to scrape up contaminated soil and put it in a Quatrex bag. Workers were told not to use diesel cans to hold open doors.
Wednesday, October 19, 2022 1:00:00 PM	Diesel Fuel	5 L	Explo camp next to helicopter pad	A light tower flipped on the side and spilled diesel.	Contaminated soil was recovered and placed into Landfarm A.
Thursday, October 20, 2022 2:30:00 AM	Diesel Fuel	13 L	Dome 3 lay down	A boom truck arrived at surface Dome 3 to load some steal to bring underground. When the operator got out of his equipment, he noticed the fuel tank was leaking through the side glass.	Absorbent rags were used and placed into a Quatrex bag and surface material was shoveled and placed into a Quatrex bag (Oily solids).
Monday, October 24, 2022 10:00:00 PM	Hydraulic Oil	45 L	West side of AWAR next to Tiri02	A hose disconnected on a Dozer Cat and hydraulic oil started spilling on the ground.	An excavator was used to remove the contaminated ground (waste rock) which was placed inside a haul truck and disposed of in the Landfarm.
Saturday, October 29, 2022 3:00:00 AM	Hydraulic Oil	4 L	E540690 N6988459	A hydraulic hose failed inside a drill and some oil leaked out on the ground.	Spill pads were used, and contaminated materials were disposed of in a Quatrex bag.

Appendix – Monitoring Analytical Data

MEL-11		10/12/2022
Parameter	**Unit**	
WQ01- Field Measured		
WQ02- Conventional Parameters		
pH	**pH units**	7.49
Turbidity	**NTU**	0.3
Specific conductivity	**umhos/cm**	110
Hardness, as CaCO3	**mg/L**	32.1
Total alkalinity, as CaCO3	**mg/L**	23
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	22
TDS	**mg/L**	90
TDS, calculated	**mg/L**	53
TSS	**mg/L**	< 1
Total organic carbon	**mg/L**	3.5
Dissolved organic carbon	**mg/L**	3.5
WQ03- Major Ions		
Chloride	**mg/L**	15
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	< 0.0020
Cyanide (WAD)	**mg/L**	0.0011
Silica	**mg/L**	0.49
Sulfate	**mg/L**	6.2
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**	0.16
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0071
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00056
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**	0.00097
Iron	**mg/L**	0.022
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Manganese	**mg/L**	0.0036
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**	0.0538

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**	0.00050
Barium	**mg/L**	0.0083
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	8.91
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00081
Iron	**mg/L**	0.0116
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Magnesium (Dissolved)	**mg/L**	1.59
Manganese	**mg/L**	< 0.0010
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	0.978
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	6.84
Strontium	**mg/L**	0.0473
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**	< 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-15		10/2/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.66
Turbidity	**NTU**	0.7
Specific conductivity	**umhos/cm**	140
Hardness, as CaCO3	**mg/L**	52.7
Total alkalinity, as CaCO3	**mg/L**	46
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	45
TDS	**mg/L**	85
TDS, calculated	**mg/L**	72
TSS	**mg/L**	1
Total organic carbon	**mg/L**	4.7
Dissolved organic carbon	**mg/L**	4.7
WQ03- Major Ions		
Chloride	**mg/L**	12
Cyanide	**mg/L**	0.00051
Cyanide (free)	**mg/L**	0.0021
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	1.4
Sulfate	**mg/L**	7.3
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	0.082
Nitrate (as N)	**mg/L**	< 0.10
Nitrite (as N)	**mg/L**	< 0.010
Total Kjeldahl nitrogen	**mg/L**	0.20
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0063
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00115
Barium	**mg/L**	0.0117
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00067
Iron	**mg/L**	0.057
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020

Manganese	**mg/L**	0.0048
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**	0.0816
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**	0.00076
Barium	**mg/L**	0.0114
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	17.3
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00059
Iron	**mg/L**	0.0178
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Magnesium (Dissolved)	**mg/L**	1.98
Manganese	**mg/L**	< 0.0010
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	1.10
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	5.18
Strontium	**mg/L**	0.0803
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		10/2/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.70
Turbidity	**NTU**	0.5
Specific conductivity	**umhos/cm**	170
Hardness, as CaCO3	**mg/L**	59.4
Total alkalinity, as CaCO3	**mg/L**	41
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	41
TDS	**mg/L**	100
TDS, calculated	**mg/L**	82
TSS	**mg/L**	1
Total organic carbon	**mg/L**	5.4
Dissolved organic carbon	**mg/L**	5.1
WQ03- Major Ions		
Chloride	**mg/L**	21
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	< 0.0020
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	0.97
Sulfate	**mg/L**	6.9
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**	0.0107
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00461
Barium	**mg/L**	0.0233
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00133
Iron	**mg/L**	0.100
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020

Manganese	**mg/L**	0.0047
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**	0.0936
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**	0.0055
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00350
Barium	**mg/L**	0.0226
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	19.2
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00119
Iron	**mg/L**	0.0411
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Magnesium (Dissolved)	**mg/L**	2.61
Manganese	**mg/L**	0.0021
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	1.46
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	5.60
Strontium	**mg/L**	0.0910
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		10/2/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.88
Turbidity	**NTU**	0.8
Specific conductivity	**umhos/cm**	710
Hardness, as CaCO3	**mg/L**	266
Total alkalinity, as CaCO3	**mg/L**	57
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	56
TDS	**mg/L**	505
TDS, calculated	**mg/L**	410
TSS	**mg/L**	< 1
Total organic carbon	**mg/L**	11
Dissolved organic carbon	**mg/L**	10
WQ03- Major Ions		
Chloride	**mg/L**	89
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	0.0033
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	5.5
Sulfate	**mg/L**	160
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	0.15
Nitrate (as N)	**mg/L**	0.23
Nitrite (as N)	**mg/L**	< 0.010
Total Kjeldahl nitrogen	**mg/L**	0.53
Total phosphorus	**mg/L**	0.024
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0096
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00119
Barium	**mg/L**	0.0462
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	0.000024
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00162
Iron	**mg/L**	0.333
Lead	**mg/L**	< 0.00020

Lithium	**mg/L**	0.0112
Manganese	**mg/L**	0.0529
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	0.0052
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Strontium	**mg/L**	0.555
Thallium	**mg/L**	< 0.000010
Tin	**mg/L**	< 0.0050
Titanium	**mg/L**	< 0.0050
Uranium	**mg/L**	0.00032
Vanadium	**mg/L**	< 0.0050
Zinc	**mg/L**	< 0.0050
WQ07- Dissolved Metals		
Aluminum	**mg/L**	0.0061
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00083
Barium	**mg/L**	0.0452
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	87.0
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00142
Iron	**mg/L**	0.182
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0110
Magnesium (Dissolved)	**mg/L**	10.8
Manganese	**mg/L**	0.0506
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	0.0049
Potassium (Dissolved)	**mg/L**	3.52
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	26.0
Strontium	**mg/L**	0.554
Thallium	**mg/L**	< 0.000010
Tin	**mg/L**	< 0.0050
Titanium	**mg/L**	< 0.0050
Uranium	**mg/L**	0.00032
Vanadium	**mg/L**	< 0.0050
Zinc	**mg/L**	< 0.0050

MEL-18		10/2/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.85
Turbidity	**NTU**	0.5
Specific conductivity	**umhos/cm**	210
Hardness, as CaCO3	**mg/L**	76.0
Total alkalinity, as CaCO3	**mg/L**	45
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	45
TDS	**mg/L**	110
TDS, calculated	**mg/L**	100
TSS	**mg/L**	2
Total organic carbon	**mg/L**	5.0
Dissolved organic carbon	**mg/L**	4.8
WQ03- Major Ions		
Chloride	**mg/L**	28
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	0.0026
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	0.72
Sulfate	**mg/L**	12
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	0.077
Nitrate (as N)	**mg/L**	< 0.10
Nitrite (as N)	**mg/L**	< 0.010
Total Kjeldahl nitrogen	**mg/L**	0.18
Total phosphorus	**mg/L**	0.052
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0120
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00238
Barium	**mg/L**	0.0163
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**	0.111
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0087

Manganese	**mg/L**	0.0072
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**	0.163
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**	0.00125
Barium	**mg/L**	0.0155
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	24.4
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00068
Iron	**mg/L**	0.0198
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0087
Magnesium (Dissolved)	**mg/L**	3.29
Manganese	**mg/L**	0.0020
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	1.36
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	6.75
Strontium	**mg/L**	0.163
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		10/2/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.94
Turbidity	**NTU**	0.4
Hardness, as CaCO3	**mg/L**	1120
Total alkalinity, as CaCO3	**mg/L**	120
TDS	**mg/L**	3370
TDS, calculated	**mg/L**	3000
TSS	**mg/L**	4
WQ03- Major Ions		
Chloride	**mg/L**	1300
Cyanide	**mg/L**	0.00328
Fluoride	**mg/L**	0.18
Silica	**mg/L**	5.5
Sulfate	**mg/L**	530
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	2.7
Nitrate (as N)	**mg/L**	6.00
Nitrite (as N)	**mg/L**	0.198
Total phosphorus	**mg/L**	0.024
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0451
Arsenic	**mg/L**	0.0206
Barium	**mg/L**	0.134
Cadmium	**mg/L**	0.000100
Chromium	**mg/L**	< 0.0020
Copper	**mg/L**	0.0066
Iron	**mg/L**	0.059
Lead	**mg/L**	< 0.00040
Manganese	**mg/L**	0.218
Mercury	**mg/L**	-
Molybdenum	**mg/L**	0.0038
Nickel	**mg/L**	0.0652
Selenium	**mg/L**	0.00099
Silver	**mg/L**	< 0.000040
Thallium	**mg/L**	0.000028
Zinc	**mg/L**	< 0.010
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	289
Magnesium (Dissolved)	**mg/L**	95.4
Potassium (Dissolved)	**mg/L**	34.0
Sodium (Dissolved)	**mg/L**	635

MEL-20		10/2/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.94
Turbidity	**NTU**	18
Hardness, as CaCO3	**mg/L**	1070
Total alkalinity, as CaCO3	**mg/L**	120
TDS	**mg/L**	2740
TDS, calculated	**mg/L**	3200
TSS	**mg/L**	26
WQ03- Major Ions		
Chloride	**mg/L**	1300
Cyanide	**mg/L**	0.0120
Fluoride	**mg/L**	0.16
Silica	**mg/L**	9.6
Sulfate	**mg/L**	570
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	18
Nitrate (as N)	**mg/L**	46.7
Nitrite (as N)	**mg/L**	0.540
Total phosphorus	**mg/L**	0.062
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.433
Arsenic	**mg/L**	0.0529
Barium	**mg/L**	0.115
Cadmium	**mg/L**	0.000200
Chromium	**mg/L**	< 0.0040
Copper	**mg/L**	0.0088
Iron	**mg/L**	1.03
Lead	**mg/L**	0.00366
Manganese	**mg/L**	0.740
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0069
Nickel	**mg/L**	0.0529
Selenium	**mg/L**	0.00324
Silver	**mg/L**	< 0.000080
Thallium	**mg/L**	0.000056
Zinc	**mg/L**	< 0.020
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	266
Magnesium (Dissolved)	**mg/L**	93.6
Potassium (Dissolved)	**mg/L**	38.9
Sodium (Dissolved)	**mg/L**	648

MEL-21		10/2/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.95
Turbidity	**NTU**	1.7
Hardness, as CaCO3	**mg/L**	950
Total alkalinity, as CaCO3	**mg/L**	150
TDS	**mg/L**	1990
TDS, calculated	**mg/L**	2000
TSS	**mg/L**	6
WQ03- Major Ions		
Chloride	**mg/L**	790
Cyanide	**mg/L**	0.00364
Fluoride	**mg/L**	0.16
Silica	**mg/L**	6.7
Sulfate	**mg/L**	440
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	2.6
Nitrate (as N)	**mg/L**	11.4
Nitrite (as N)	**mg/L**	0.189
Total phosphorus	**mg/L**	0.035
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.076
Arsenic	**mg/L**	0.0312
Barium	**mg/L**	0.103
Cadmium	**mg/L**	0.000080
Chromium	**mg/L**	< 0.0040
Copper	**mg/L**	0.0054
Iron	**mg/L**	0.362
Lead	**mg/L**	0.00223
Manganese	**mg/L**	0.549
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0105
Nickel	**mg/L**	0.0433
Selenium	**mg/L**	0.00080
Silver	**mg/L**	< 0.000080
Thallium	**mg/L**	< 0.000040
Zinc	**mg/L**	< 0.020
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	251
Magnesium (Dissolved)	**mg/L**	68.0
Potassium (Dissolved)	**mg/L**	25.0
Sodium (Dissolved)	**mg/L**	325

MEL-22		10/2/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.87
Turbidity	**NTU**	2.0
Hardness, as CaCO3	**mg/L**	1540
Total alkalinity, as CaCO3	**mg/L**	99
TDS	**mg/L**	3020
TDS, calculated	**mg/L**	3300
TSS	**mg/L**	5
WQ03- Major Ions		
Chloride	**mg/L**	1600
Cyanide	**mg/L**	0.00111
Fluoride	**mg/L**	< 0.10
Silica	**mg/L**	2.1
Sulfate	**mg/L**	460
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	1.4
Nitrate (as N)	**mg/L**	7.06
Nitrite (as N)	**mg/L**	0.037
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	0.013
WQ06- Total Metals		
Aluminum	**mg/L**	0.020
Arsenic	**mg/L**	0.00469
Barium	**mg/L**	0.0970
Cadmium	**mg/L**	0.000065
Chromium	**mg/L**	< 0.0050
Copper	**mg/L**	0.0035
Iron	**mg/L**	0.424
Lead	**mg/L**	< 0.0010
Manganese	**mg/L**	0.616
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0050
Nickel	**mg/L**	0.0305
Selenium	**mg/L**	< 0.00050
Silver	**mg/L**	< 0.00010
Thallium	**mg/L**	< 0.000050
Zinc	**mg/L**	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	437
Magnesium (Dissolved)	**mg/L**	109
Potassium (Dissolved)	**mg/L**	38.8
Sodium (Dissolved)	**mg/L**	526

MEL-23		10/2/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.95
Turbidity	**NTU**	1.3
Hardness, as CaCO3	**mg/L**	1530
Total alkalinity, as CaCO3	**mg/L**	190
TDS	**mg/L**	4900
TDS, calculated	**mg/L**	5200
TSS	**mg/L**	7
WQ03- Major Ions		
Chloride	**mg/L**	2200
Cyanide	**mg/L**	0.00309
Fluoride	**mg/L**	0.26
Silica	**mg/L**	5.9
Sulfate	**mg/L**	1000
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	9.3
Nitrate (as N)	**mg/L**	21.2
Nitrite (as N)	**mg/L**	0.512
Total phosphorus	**mg/L**	0.041
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.082
Arsenic	**mg/L**	0.0111
Barium	**mg/L**	0.0858
Cadmium	**mg/L**	0.000226
Chromium	**mg/L**	< 0.0050
Copper	**mg/L**	0.0067
Iron	**mg/L**	0.153
Lead	**mg/L**	< 0.0010
Manganese	**mg/L**	0.876
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0127
Nickel	**mg/L**	0.104
Selenium	**mg/L**	0.00225
Silver	**mg/L**	< 0.00010
Thallium	**mg/L**	< 0.000050
Zinc	**mg/L**	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	291
Magnesium (Dissolved)	**mg/L**	201
Potassium (Dissolved)	**mg/L**	73.2
Sodium (Dissolved)	**mg/L**	1170

MEL-SR1	MEL-SR MAX GRAB (WSEEP/RO)	MEL-SR MAX MEAN (WSEEP/RO)	Sample date	10/8/2022
			Sample type	
Parameter			Unit	
WQ01- Field Measured				
Turbidity			**NTU**	0.88
WQ02- Conventional Parameters				
pH	6.0 to 9.5	6.0 to 9.5	**pH units**	8.11
Turbidity			**NTU**	0.3
Hardness, as CaCO3			**mg/L**	554
Total alkalinity, as CaCO3			**mg/L**	230
TDS			**mg/L**	980
TDS, calculated			**mg/L**	990
TSS	100	50	**mg/L**	1
WQ03- Major Ions				
Chloride			**mg/L**	310
Cyanide			**mg/L**	0.00100
Fluoride			**mg/L**	0.14
Silica			**mg/L**	4.6
Sulfate			**mg/L**	210
WQ04- Nutrients and Chlorophyll a				
Ammonia Nitrogen (as N)			**mg/L**	< 0.050
Nitrate (as N)			**mg/L**	0.34
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**	2.2
WQ06- Total Metals				
Aluminum			**mg/L**	0.0067
Arsenic			**mg/L**	0.00299
Barium			**mg/L**	0.0653
Cadmium			**mg/L**	0.000016
Chromium			**mg/L**	< 0.0010
Copper			**mg/L**	0.00306
Iron			**mg/L**	0.039
Lead			**mg/L**	< 0.00020
Manganese			**mg/L**	0.0169
Mercury			**mg/L**	< 0.00001
Molybdenum			**mg/L**	0.0011
Nickel			**mg/L**	0.0277
Selenium			**mg/L**	0.00010

Silver			**mg/L**	< 0.000020
Thallium			**mg/L**	0.000012
Zinc			**mg/L**	0.0555
WQ07- Dissolved Metals				
Calcium (Dissolved)			**mg/L**	151
Magnesium (Dissolved)			**mg/L**	33.5
Potassium (Dissolved)			**mg/L**	13.8
Sodium (Dissolved)			**mg/L**	140