



**Meliadine Gold Mine
NWB 2AM-MEL1631
September 2024 Monthly Report**

Prepared for:

Nunavut Water Board

Prepared by:

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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 September 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	40,333	50,559 ²	53,277	42,069	-	-	-	392,357
Dust suppression ³	m ³	0	0	0	0	0	0	-	-	-	-	-	-	0
Dust suppression ⁴	m ³	0	0	0	0	579	3,121	2,753	2,241	0	-	-	-	8,694

2.2 DEWATERING ACTIVITIES

Four (4) ponds (B36, B37, B38 and B62) were dewatered to Contact Water management facilities (Collection Pond 1) during the month as part of the permitted fish salvage.

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 The July MEL-11 water usage was corrected in the August report

³ Water obtained along AWAR/Meliadine River

⁴ 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	171,936	72,724	0	370,142	-	-	-	614,802
MEL-26	m ³	0	0	0	0	0	0	0	0	0	-	-	-	0
MEL-25	m ³	0	0	0	0	0	0	0	0	300	-	-	-	300

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	4,945	5,080	5,306	4,753	-	-	-	40,929
Sewage Sludge	Amount (m ³)	100	100	120	120	81.4	80	10.50	31	30	-	-	-	642.90
	Disposal Location	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	-	-	-	-

2.6 MONITORING ANALYTICAL DATA

Twenty-seven (27) samples related to the Water Licence were taken during the month. The analytical results are presented in Appendix.

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			27,232			-			-
Landfarm (Survey)	m ³	604 ⁵			537			1,158			-			-
Landfarm ⁶	m ³	1.8	0.02	3.25	7.28	2.3	32.52	3.78	7.47	2.05	-	-	-	58.42

⁵ From landfarm survey 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.

⁶ 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	144,504	190,576	181,680	160,296	-	-	-	1,459,770
Waste Rock	Removed from open pit mining	175,380	534,627	845,427	701,244	344,631	231,788	481,603	397,615	349,551	-	-		4,061,866
	Removed from underground mining	71,281 ⁷	67,267	73,926	87,413	54,382	71,177	65,504	74,681	75,460	-	-		641,092
	Used as underground dry rockfill	49,823	31,805	10,566	31,716	18,233	13,755	23,217	54,582	33,645	-	-		267,343
Tailings	Send to TSF	144,379	107,392	111,857	125,769	83,808	110,265	152,691	151,392	125,887	-	-		1,113,440
	Used as paste underground backfill	46,567	47,043	44,963	40,792	30,144	34,239	37,885	30,288	34,409	-	-		346,330

⁷ 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. One (1) reportable spill occurred during the month (Refer to the gray shading in Table 4.1).

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

Date and time of occurrence	Contaminant	Estimated quantity	Exact location of incident	Description of incident	Describe immediate corrective actions
Monday, September 09, 2024 10:30:00 AM	Hydraulic oil	20 L	TIR01	An O-ring on the main hydraulic block of a drill ruptured, spilling 20 L of hydraulic oil onto the ground.	Spill pads were deployed to contain the spill and disposed of in the appropriate bin. Contaminated material will remain inside the pit as it is within an ore-bearing pattern and will be processed through the Mill.
Tuesday, September 10, 2024 10:55:00 AM	Hydraulic Oil	30 L	WRSF3	Bolts on a hydraulic coupling sheared off, resulting in a 30 L spill of hydraulic oil from the steering motor of a dozer.	Spill pads were deployed to clean-up the spill and disposed of in the appropriate bin. Contaminated material was scrapped and disposed of in the Landfarm.
Tuesday, September 17, 2024 2:00:00 PM	Hydraulic Oil	60 L	WRSF3	While crushing rock to produce aggregate at WRSF3, a fitting on the cone crusher came loose, resulting in a 60L spill of hydraulic oil.	The crusher's sensors detected the loss of hydraulic pressure and automatically shut down the plant. A secondary containment was placed under the equipment. Spill pads were deployed to clean-up the spill and disposed of in the appropriate bin. Contaminated material was scrapped and disposed of in the Landfarm.
Thursday, September 19, 2024 8:30:00 AM	Rock Drill oil	10 L	TIRI01	A container of drilling oil fell from the rack inside the drill & blast water truck and spilled from the truck onto the ground.	Spill pads were deployed to clean-up the spill and disposed of in the appropriate bin. Contaminated material will remain

					inside the pit as it is within an ore-bearing pattern and will be processed through the Mill.
Saturday, September 21, 2024 10:30:00 PM	Emulsion	60 L	Emulsion pad, Portal 1	While attempting to load a truck with emulsion, the truck's boom was overloaded and was slightly flailing. As a result, the boom tipped the emulsion bin, causing a 60L spill onto the ground. It should be noted the spill occurred within a lined area.	Spill pads were used and contaminated material was hand excavated to be placed in Quatrex bas at Dome 3.
Wednesday, September 25, 2024 7:30:00 AM	Hydraulic oil	10 L	WRSF3	During operation of a dozer, the steering did not respond. Upon inspection, it was found that hydraulic oil was leaking from the vehicle.	Spill pads were deployed to clean-up the spill and disposed of in the appropriate bin. Contaminated material was scrapped and disposed of in the landfarm.
Saturday, September 28, 2024 9:00:00 AM	Diesel	2 L	North East corner of E&I office	During a high wind event, the light tower fell over resulting in a 2L spill of diesel.	Contaminated material was hand excavated and placed in the Landfarm.
Saturday, September 28, 2024 12:00:00 PM	Contact water	2 m ³	South of WRSF3	It was noted during a routine inspection of water management infrastructure that accumulated water along the southern toe of Waste Rock Storage Facility 3 (WRSF3) was overflowing a low-profile area of the exploration camp road. An estimated 2m3 of runoff water made its way into the tundra at the MEL-SR-16 location. The accumulation of water was the result of several days of heavy rainfall leading up to the event, along with record precipitation received during the month of September.	Leading up to the event, it was observed during a routine inspection that water accumulation was increasing in the area and starting to encroach upon the road. A decision was made to substitute the existing 4" pump with a larger 6" pump and waterline to overcome the rate of accumulation before the water could overtop the roadway. The larger capacity pump was able to draw down the water level, however, water overtopped the road and was released for a short duration. Upon discovering the runoff, erosion and sediment control measures were installed to prevent

					sedimentation in the tundra. Water quality samples and field readings were collected for analysis and an additional sample was collected for internal analysis of Total Suspended Solids (TSS) to provide an immediate indication of water quality. Results from internal analysis indicated TSS were below criteria listed under Part D, Item 18 of the Water Licence. The internal TSS result for the MEL-SR-16 sample was 0 mg/L, and the internal TSS result for the WRSF3-South sample was 5 mg/L.
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Appendix – Monitoring Analytical Data

MEL-11		9/2/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.38
Turbidity	NTU	0.3
Conductivity	ms/cm	0.108
Hardness, as CaCO ₃	mg/L	25.4
Total alkalinity, as CaCO ₃	mg/L	21
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	21
TDS	mg/L	60
TSS	mg/L	< 1
Total organic carbon	mg/L	3.3
Dissolved organic carbon	mg/L	3.0
WQ03- Major Ions		
Chloride	mg/L	13
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	0.0024
Cyanide (WAD)	mg/L	0.00055
Silica	mg/L	1.2
Sulfate	mg/L	6.1
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	0.18
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0038
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00068
Barium	mg/L	0.0072
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	0.018
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0058

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	0.0407
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	0.00072
Barium	mg/L	0.0080
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	9.04
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00091
Iron	mg/L	0.0063
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	1.58
Manganese	mg/L	< 0.0010
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.11
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	6.90
Strontium	mg/L	0.0445
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-12		9/2/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.91
Turbidity	NTU	0.4
Conductivity	ms/cm	2.46
Hardness, as CaCO ₃	mg/L	425
Total alkalinity, as CaCO ₃	mg/L	85
TDS	mg/L	1530
TSS	mg/L	2
Total organic carbon	mg/L	10
WQ03- Major Ions		
Chloride	mg/L	550
Cyanide	mg/L	0.00115
Fluoride	mg/L	0.10
Silica	mg/L	0.33
Sulfate	mg/L	230
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.12
Nitrate (as N)	mg/L	3.82
Nitrite (as N)	mg/L	0.066
Total phosphorus	mg/L	0.062
Orthophosphate (P)	mg/L	0.037
WQ06- Total Metals		
Aluminum	mg/L	0.0668
Arsenic	mg/L	0.0186
Barium	mg/L	0.0453
Cadmium	mg/L	0.000016
Calcium (total)	mg/L	112
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00278

Iron	mg/L	0.074
Lead	mg/L	0.00033
Magnesium (total)	mg/L	35.2
Manganese	mg/L	0.0367
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0059
Nickel	mg/L	0.0048
Potassium (total)	mg/L	20.1
Selenium	mg/L	0.00054
Silver	mg/L	< 0.000020
Sodium (total)	mg/L	240
Thallium	mg/L	0.000013
Titanium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	122
Magnesium (Dissolved)	mg/L	39.8
Potassium (Dissolved)	mg/L	22.7
Sodium (Dissolved)	mg/L	276

MEL-13		9/7/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.28
Dissolved Oxygen	mg/L	11.4
Turbidity	NTU	0.4
Conductivity	ms/cm	0.126
Hardness, as CaCO ₃	mg/L	33.8
Total alkalinity, as CaCO ₃	mg/L	22
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	22
TDS	mg/L	85
TSS	mg/L	< 1
Total organic carbon	mg/L	3.6
Dissolved organic carbon	mg/L	4.0
WQ03- Major Ions		
Chloride	mg/L	18
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	< 0.0020
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.64

Sulfate	mg/L	8.6
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	0.00301
Antimony	mg/L	< 0.000020
Arsenic	mg/L	0.000640
Barium	mg/L	0.00833
Beryllium	mg/L	< 0.000010
Boron	mg/L	0.011
Cadmium	mg/L	< 0.0000050
Chromium	mg/L	0.00014
Cobalt	mg/L	0.0000216
Copper	mg/L	0.000833
Iron	mg/L	0.0154
Lead	mg/L	0.0000157
Lithium	mg/L	0.00099
Manganese	mg/L	0.00502
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.000355
Nickel	mg/L	0.000677
Selenium	mg/L	0.000045
Silver	mg/L	< 0.0000050
Strontium	mg/L	0.0555
Thallium	mg/L	< 0.0000020
Tin	mg/L	< 0.00020
Titanium	mg/L	< 0.00050
Uranium	mg/L	0.0000313
Vanadium	mg/L	< 0.00020
Zinc	mg/L	0.00032
WQ07- Dissolved Metals		
Aluminum	mg/L	0.00383
Antimony	mg/L	< 0.000020
Arsenic	mg/L	0.000576
Barium	mg/L	0.00825
Beryllium	mg/L	< 0.000010
Boron	mg/L	< 0.01
Cadmium	mg/L	< 0.0000050
Calcium (Dissolved)	mg/L	9.89

Chromium	mg/L	0.00016
Cobalt	mg/L	0.0000132
Copper	mg/L	0.000871
Iron	mg/L	0.0042
Lead	mg/L	< 0.0000050
Lithium	mg/L	0.00105
Magnesium (Dissolved)	mg/L	1.92
Manganese	mg/L	0.000339
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.000143
Nickel	mg/L	0.000671
Potassium (Dissolved)	mg/L	1.16
Selenium	mg/L	0.000044
Silver	mg/L	< 0.0000050
Sodium (Dissolved)	mg/L	8.48
Strontium	mg/L	0.0556
Thallium	mg/L	< 0.0000020
Tin	mg/L	< 0.00020
Titanium	mg/L	< 0.00050
Uranium	mg/L	0.0000188
Vanadium	mg/L	< 0.00020
Zinc	mg/L	0.00048
WQ08- Radionuclides		
Radium-226	Bq/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	< 0.09
F3 (C16-C34)	mg/L	< 0.2
F4 (C34-C50)	mg/L	< 0.2

MEL-14						9/1/2024	9/2/2024	9/5/2024	9/9/2024	9/16/2024	9/18/2024	9/23/2024	9/30/2024
Parameter	MDMER MAX GRAB	MDMER MAX MONTHLY MEAN	2AM- MEL1631 MEL-14 MAX GRAB	2AM- MEL1631 MEL-14 MAX MEAN	Unit								
WQ02- Conventional Parameters													
pH	9.5	9.5	9.5	9.5	pH units	7.73	7.76	7.52	7.71	7.76	7.83	7.80	7.69
Dissolved Oxygen					mg/L	11.1	10.6	10.8	11.0	9.42	9.10	11.1	9.58
Turbidity					NTU	0.4	0.6	0.4	0.7	0.9	0.8	0.6	1.0
Conductivity					ms/cm	2.49	2.51	2.52	2.60	2.54	2.57	2.63	3.22
Conductivity					umhos/cm	-	-	-	-	-	-	-	-
Hardness, as CaCO3					mg/L	425	430	445	469	435	449	572	627
Total alkalinity, as CaCO3					mg/L	74	76	69	83	87	88	88	97
Carbonate, as CaCO3					mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO3					mg/L	74	75	69	83	87	88	88	97
TDS			4500	3500	mg/L	1620	1630	1600	1640	1520	1670	1980	2040
TDS, calculated			4500	3500	mg/L	1400	1400	1400	1400	1400	1400	1500	1900
TSS	30	15	30	15	mg/L	2	2	3	4	3	5	5	5
Total organic carbon					mg/L	8.9	9.5	8.4	10	10	9.9	9.7	10
Dissolved organic carbon					mg/L	8.4	8.6	7.8	9.4	9.1	9.6	8.6	9.6
WQ03- Major Ions													
Chloride					mg/L	570	550	580	590	570	570	570	700
Cyanide	1	0.5	1	0.5	mg/L	0.00342	0.00310	0.00104	0.00124	0.00124	0.00076	0.00108	0.00241
Cyanide (free)					mg/L	< 0.0020	0.0022	0.0024	< 0.0020	< 0.0020	0.0031	< 0.0020	0.0024
Cyanide (WAD)					mg/L	0.0041	0.0016	0.0011	0.00071	< 0.00050	< 0.00050	0.0013	0.0017
Silica					mg/L	0.35	0.31	0.42	0.66	0.58	0.66	1.2	2.4
Sulfate					mg/L	240	240	240	250	260	260	320	390
WQ04- Nutrients and Chlorophyll a													
Ammonia Nitrogen (as N)			18	14	mg/L	0.13	0.13	0.15	0.26	0.24	0.17	0.42	2.3
Nitrate (as N)					mg/L	3.91	3.95	4.63	5.02	5.55	5.57	7.34	14.6
Nitrite (as N)					mg/L	0.069	0.069	0.067	0.078	0.066	0.079	0.144	0.344
Total Kjeldahl nitrogen					mg/L	1.2	1.7	0.85	0.92	1.3	1.1	1.3	2.6
Total phosphorus			4	2	mg/L	< 0.020	0.040	< 0.020	< 0.020	0.055	0.046	0.025	0.044
Orthophosphate (P)					mg/L	< 0.010	< 0.010	< 0.010	< 0.010	0.026	0.015	< 0.010	< 0.010

WQ06- Total Metals													
Aluminum			3	2	mg/L	0.310	0.319	0.354	0.466	0.422	0.398	0.622	0.505
Antimony					mg/L	0.00079	0.00079	0.00070	0.00068	0.00065	< 0.0010	0.00076	< 0.0010
Arsenic	0.6	0.3	0.6	0.3	mg/L	0.00533	0.00574	0.00415	0.00757	0.0105	0.0115	0.00882	0.00968
Barium					mg/L	0.0445	0.0456	0.0438	0.0442	0.0444	0.0454	0.0561	0.0523
Beryllium					mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00020	< 0.00010	< 0.00020
Boron					mg/L	0.205	0.226	0.188	0.178	0.178	0.18	0.204	0.25
Cadmium					mg/L	0.000017	0.000017	0.000015	0.000019	0.000012	< 0.000020	< 0.000010	0.000023
Chromium					mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0010	< 0.0020
Cobalt					mg/L	0.00100	0.00102	0.00098	0.00099	0.00091	0.00095	0.00125	0.00190
Copper	0.6	0.3	0.4	0.2	mg/L	0.00229	0.00234	0.00190	0.00225	0.00199	0.0023	0.00224	0.0020
Iron					mg/L	0.013	0.023	0.015	0.020	0.044	0.048	0.031	0.049
Lead	0.2	0.1	0.2	0.1	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00040	< 0.00020	< 0.00040
Lithium					mg/L	0.0308	0.0323	0.0303	0.0264	0.0268	0.0252	0.0331	0.0286
Manganese					mg/L	0.0297	0.0359	0.0293	0.0358	0.0457	0.0501	0.0883	0.166
Mercury					mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum					mg/L	0.0061	0.0064	0.0055	0.0050	0.0050	0.0049	0.0051	0.0050
Nickel	1	0.5	1	0.5	mg/L	0.0045	0.0046	0.0043	0.0052	0.0047	0.0049	0.0072	0.0107
Selenium					mg/L	0.00055	0.00054	0.00053	0.00052	0.00046	0.00052	0.00060	0.00102
Silver					mg/L	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000040	< 0.000020	< 0.000040
Strontium					mg/L	1.36	1.40	1.39	1.46	1.32	1.38	1.82	1.72
Thallium					mg/L	0.000015	0.000015	0.000013	0.000016	0.000011	< 0.000020	0.000021	< 0.000020
Tin					mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
Titanium					mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
Uranium					mg/L	0.00149	0.00166	0.00084	0.00259	0.00286	0.00287	0.00323	0.00465
Vanadium					mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
Zinc	1	0.5	0.8	0.4	mg/L	< 0.0050	0.0099	0.0052	0.0052	< 0.0050	< 0.010	< 0.0050	< 0.010
WQ07- Dissolved Metals													
Aluminum			3	2	mg/L	0.120	0.134	0.112	0.149	0.177	0.207	0.145	0.199
Antimony					mg/L	0.00085	0.00086	0.00079	0.00076	0.00077	< 0.0010	0.00072	0.0010
Arsenic	0.6	0.3	0.6	0.3	mg/L	0.00454	0.00490	0.00349	0.00601	0.00959	0.0105	0.00561	0.00787
Barium					mg/L	0.0483	0.0487	0.0475	0.0508	0.0515	0.0536	0.0522	0.0625
Beryllium					mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00020	< 0.00010	< 0.00020
Boron					mg/L	0.226	0.233	0.212	0.224	0.206	0.22	0.217	0.29
Cadmium					mg/L	0.000017	0.000019	0.000017	0.000016	0.000014	< 0.000020	0.000014	0.000023
Calcium (Dissolved)					mg/L	122	122	123	133	131	132	154	193

Chromium					mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0010	< 0.0020
Cobalt					mg/L	0.00109	0.00111	0.00116	0.00113	0.00107	0.00108	0.00124	0.00201
Copper	0.6	0.3	0.4	0.2	mg/L	0.00250	0.00260	0.00248	0.00244	0.00229	0.00280	0.00229	0.00231
Iron					mg/L	0.0061	0.0121	0.0066	< 0.0050	0.0099	0.011	< 0.0050	< 0.010
Lead	0.2	0.1	0.2	0.1	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	0.00068	< 0.00020	< 0.00040
Lithium					mg/L	0.0333	0.0338	0.0314	0.0320	0.0306	0.0303	0.0324	0.0349
Magnesium (Dissolved)					mg/L	42.4	43.6	41.3	39.8	43.8	44.1	43.3	56.7
Manganese					mg/L	0.0310	0.0365	0.0330	0.0423	0.0517	0.0510	0.0853	0.193
Mercury					mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum					mg/L	0.0067	0.0068	0.0061	0.0059	0.0059	0.0057	0.0053	0.0057
Nickel	1	0.5	1	0.5	mg/L	0.0049	0.0050	0.0052	0.0059	0.0055	0.0057	0.0071	0.0118
Potassium (Dissolved)					mg/L	22.9	23.2	23.0	21.4	22.0	21.7	22.0	26.1
Selenium					mg/L	0.00062	0.00063	0.00058	0.00057	0.00056	0.00053	0.00061	0.00110
Silver					mg/L	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000040	< 0.000020	< 0.000040
Sodium (Dissolved)					mg/L	282	285	271	257	275	283	267	313
Strontium					mg/L	1.47	1.50	1.49	1.62	1.52	1.58	1.68	2.01
Thallium					mg/L	0.000014	0.000014	0.000015	0.000017	0.000014	< 0.000020	0.000019	0.000020
Tin					mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
Titanium					mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
Uranium					mg/L	0.00159	0.00172	0.00081	0.00252	0.00312	0.00321	0.00283	0.00533
Vanadium					mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
Zinc	1	0.5	0.8	0.4	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010
WQ08- Radionuclides													
Radium-226	1.11	0.37			Bq/l	< 0.0050	< 0.0050	0.0060	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
WQ09- Toxicity													
Daphnia 48 h static acute test - LC50					%	-	>100	-	-	-	-	-	-
Daphnia 48 h Static Acute Test - EC50					%	-	>100	-	-	-	-	-	-
LC50 (96h) - Rainbow Trout					%	-	>100	-	-	-	-	-	-
Lemna Minor Biomasse - IC25					%	-	-	-	-	-	-	-	-
Lemna Minor Frond Increase - IC25					%	-	-	-	-	-	-	-	-
WQ10- Volatile Organics													

Benzene					mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Ethylbenzene					mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Toluene					mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Xylenes					mg/L	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040
m,p-Xylenes					mg/L	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040	< 0.00040
o-Xylene					mg/L	< 0.00020	< 0.00020	< 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	< 0.025
F1 (C6-C10)					mg/L	< 0.025	< 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	< 0.09	< 0.09	< 0.09	< 0.09
F3 (C16-C34)					mg/L	< 0.2	< 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	< 0.2

MEL-15		9/1/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.77
Turbidity	NTU	0.7
Conductivity	ms/cm	0.154
Hardness, as CaCO ₃	mg/L	56.1
Hardness, as CaCO ₃ -Dissolved	mg/L	57.4
Total alkalinity, as CaCO ₃	mg/L	49
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	48
TDS	mg/L	90
TDS, calculated	mg/L	75
TSS	mg/L	1
Total organic carbon	mg/L	4.9
Dissolved organic carbon	mg/L	4.8
WQ03- Major Ions		
Chloride	mg/L	12
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	< 0.0020
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	1.3
Sulfate	mg/L	5.4
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	0.31
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0038
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00190
Barium	mg/L	0.0132
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Copper	mg/L	< 0.00050
Iron	mg/L	0.089
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020

Manganese	mg/L	0.0105
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	0.0943
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	0.00169
Barium	mg/L	0.0133
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	0.00049
Iron	mg/L	0.0464
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	2.28
Manganese	mg/L	0.0034
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.27
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	5.90
Strontium	mg/L	0.0937
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		9/1/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.80
Turbidity	NTU	1.1
Conductivity	ms/cm	0.191
Hardness, as CaCO ₃	mg/L	68.4
Total alkalinity, as CaCO ₃	mg/L	50
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	50
TDS	mg/L	115
TDS, calculated	mg/L	92
TSS	mg/L	1
Total organic carbon	mg/L	5.1
Dissolved organic carbon	mg/L	4.7
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	0.66
Sulfate	mg/L	6.7
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	0.38
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0078
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.0108
Barium	mg/L	0.0283
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	0.130
Lead	mg/L	< 0.00020

Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0082
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	0.126
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	0.0043
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00879
Barium	mg/L	0.0284
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	22.3
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00095
Iron	mg/L	0.0382
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	2.96
Manganese	mg/L	0.0027
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.82
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	6.89
Strontium	mg/L	0.123
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		9/1/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.01
Turbidity	NTU	1.0
Conductivity	ms/cm	0.473
Hardness, as CaCO ₃	mg/L	163
Total alkalinity, as CaCO ₃	mg/L	81
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	80
TDS	mg/L	375
TDS, calculated	mg/L	240
TSS	mg/L	1
Total organic carbon	mg/L	12
Dissolved organic carbon	mg/L	13
WQ03- Major Ions		
Chloride	mg/L	64
Cyanide	mg/L	0.00060
Cyanide (free)	mg/L	< 0.0020
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	2.9
Sulfate	mg/L	41
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	0.73
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0078
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00123
Barium	mg/L	0.0443
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	0.180
Lead	mg/L	< 0.00020

Lithium	mg/L	0.0071
Manganese	mg/L	0.0441
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0021
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Strontium	mg/L	0.401
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	0.00020
Vanadium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Aluminum	mg/L	0.0057
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00121
Barium	mg/L	0.0450
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	53.0
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00084
Iron	mg/L	0.102
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0070
Magnesium (Dissolved)	mg/L	7.39
Manganese	mg/L	0.0212
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0020
Potassium (Dissolved)	mg/L	3.75
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	19.3
Strontium	mg/L	0.386
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	0.00020
Vanadium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050

MEL-18		9/1/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.79
Turbidity	NTU	0.8
Conductivity	ms/cm	0.245
Hardness, as CaCO ₃	mg/L	85.9
Total alkalinity, as CaCO ₃	mg/L	55
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	55
TDS	mg/L	160
TDS, calculated	mg/L	120
TSS	mg/L	3
Total organic carbon	mg/L	5.1
Dissolved organic carbon	mg/L	4.9
WQ03- Major Ions		
Chloride	mg/L	31
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	< 0.0020
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	1.3
Sulfate	mg/L	9.9
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	0.36
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0047
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00411
Barium	mg/L	0.0209
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	0.076
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0106

Manganese	mg/L	0.0157
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	0.214
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	0.00356
Barium	mg/L	0.0218
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	28.2
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00064
Iron	mg/L	0.0258
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0110
Magnesium (Dissolved)	mg/L	3.89
Manganese	mg/L	0.0029
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.83
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	9.10
Strontium	mg/L	0.224
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		9/1/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.02
Turbidity	NTU	0.5
Hardness, as CaCO ₃	mg/L	1310
Total alkalinity, as CaCO ₃	mg/L	140
TDS	mg/L	3950
TDS, calculated	mg/L	3300
TSS	mg/L	4
WQ03- Major Ions		
Chloride	mg/L	1300
Cyanide	mg/L	0.00175
Fluoride	mg/L	0.21
Silica	mg/L	5.0
Sulfate	mg/L	700
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.26
Nitrate (as N)	mg/L	11.2
Nitrite (as N)	mg/L	0.087
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.020
Arsenic	mg/L	0.0146
Barium	mg/L	0.0965
Cadmium	mg/L	0.000124
Chromium	mg/L	< 0.0050
Copper	mg/L	0.0087
Iron	mg/L	< 0.050
Lead	mg/L	< 0.0010
Manganese	mg/L	0.230
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0050
Nickel	mg/L	0.0769
Selenium	mg/L	0.00142
Silver	mg/L	< 0.00010
Thallium	mg/L	< 0.000050
Titanium	mg/L	< 0.025
Zinc	mg/L	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	358

Magnesium (Dissolved)	mg/L	108
Potassium (Dissolved)	mg/L	38.9
Sodium (Dissolved)	mg/L	642

MEL-20		9/1/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.82
Turbidity	NTU	1.7
Conductivity	ms/cm	9.94
Hardness, as CaCO ₃	mg/L	1950
Total alkalinity, as CaCO ₃	mg/L	140
TDS	mg/L	6670
TDS, calculated	mg/L	6100
TSS	mg/L	5
Total organic carbon	mg/L	16
WQ03- Major Ions		
Chloride	mg/L	2500
Cyanide	mg/L	0.00410
Cyanide (free)	mg/L	0.0034
Cyanide (WAD)	mg/L	0.0028
Silica	mg/L	5.2
Sulfate	mg/L	1100
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	16
Nitrate (as N)	mg/L	78.6
Nitrite (as N)	mg/L	1.83
Total phosphorus	mg/L	0.025
Orthophosphate (P)	mg/L	0.023
WQ06- Total Metals		
Aluminum	mg/L	0.043
Arsenic	mg/L	0.105
Barium	mg/L	0.0937
Cadmium	mg/L	0.000489
Chromium	mg/L	< 0.0050
Copper	mg/L	0.0088
Iron	mg/L	0.113
Lead	mg/L	0.0022
Manganese	mg/L	1.09
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0147

Nickel	mg/L	0.0989
Selenium	mg/L	0.00655
Silver	mg/L	< 0.00010
Thallium	mg/L	0.000057
Titanium	mg/L	< 0.025
Zinc	mg/L	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	411
Magnesium (Dissolved)	mg/L	197
Potassium (Dissolved)	mg/L	77.8
Sodium (Dissolved)	mg/L	1340

MEL-21		9/1/2024
Parameter	Unit	
WQ01- Field Measured		
Temperature	°C	7.2
pH	pH units	8.23
Conductivity	uS/cm	1291
Dissolved oxygen	mg/L	10.07
Dissolved oxygen	%	83.7
Turbidity	NTU	17.6
WQ02- Conventional Parameters		
pH	pH units	8.03
Turbidity	NTU	9.3
Hardness, as CaCO ₃	mg/L	400
Total alkalinity, as CaCO ₃	mg/L	110
TDS	mg/L	955
TDS, calculated	mg/L	680
TSS	mg/L	12
WQ03- Major Ions		
Chloride	mg/L	230
Cyanide	mg/L	0.00241
Fluoride	mg/L	< 0.10
Silica	mg/L	4.4
Sulfate	mg/L	150
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.24
Nitrate (as N)	mg/L	2.15
Nitrite (as N)	mg/L	0.031
Total phosphorus	mg/L	0.032
Orthophosphate (P)	mg/L	< 0.010

WQ06- Total Metals		
Aluminum	mg/L	0.220
Arsenic	mg/L	0.0254
Barium	mg/L	0.0750
Cadmium	mg/L	0.000023
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00311
Iron	mg/L	0.579
Lead	mg/L	0.00183
Manganese	mg/L	0.116
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0035
Nickel	mg/L	0.0123
Selenium	mg/L	0.00029
Silver	mg/L	< 0.000020
Thallium	mg/L	0.000014
Titanium	mg/L	0.0112
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	115
Magnesium (Dissolved)	mg/L	25.3
Potassium (Dissolved)	mg/L	9.05
Sodium (Dissolved)	mg/L	79.0

MEL-22		9/1/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.82
Turbidity	NTU	1.0
Hardness, as CaCO ₃	mg/L	1210
Total alkalinity, as CaCO ₃	mg/L	95
TDS	mg/L	4360
TDS, calculated	mg/L	3600
TSS	mg/L	3
WQ03- Major Ions		
Chloride	mg/L	1800
Cyanide	mg/L	0.00097
Fluoride	mg/L	0.12
Silica	mg/L	3.8
Sulfate	mg/L	420
WQ04- Nutrients and Chlorophyll a		

Ammonia Nitrogen (as N)	mg/L	3.5
Nitrate (as N)	mg/L	10.2
Nitrite (as N)	mg/L	0.196
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	< 0.015
Arsenic	mg/L	0.00460
Barium	mg/L	0.0709
Cadmium	mg/L	< 0.000050
Chromium	mg/L	< 0.0050
Copper	mg/L	0.0027
Iron	mg/L	0.218
Lead	mg/L	< 0.0010
Manganese	mg/L	0.281
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0052
Nickel	mg/L	0.0281
Selenium	mg/L	0.00057
Silver	mg/L	< 0.00010
Thallium	mg/L	< 0.000050
Titanium	mg/L	< 0.025
Zinc	mg/L	0.040
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	328
Magnesium (Dissolved)	mg/L	101
Potassium (Dissolved)	mg/L	53.5
Sodium (Dissolved)	mg/L	741

MEL-23		9/1/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.14
Turbidity	NTU	0.8
Hardness, as CaCO ₃	mg/L	948
Total alkalinity, as CaCO ₃	mg/L	160
TDS	mg/L	4040
TDS, calculated	mg/L	3700
TSS	mg/L	3
WQ03- Major Ions		
Chloride	mg/L	1600

Cyanide	mg/L	0.00080
Fluoride	mg/L	0.31
Silica	mg/L	2.4
Sulfate	mg/L	630
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.28
Nitrate (as N)	mg/L	10.0
Nitrite (as N)	mg/L	0.174
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.029
Arsenic	mg/L	0.0127
Barium	mg/L	0.0576
Cadmium	mg/L	0.000058
Chromium	mg/L	< 0.0050
Copper	mg/L	0.0048
Iron	mg/L	< 0.050
Lead	mg/L	< 0.0010
Manganese	mg/L	0.122
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0093
Nickel	mg/L	0.0674
Selenium	mg/L	0.00123
Silver	mg/L	< 0.00010
Thallium	mg/L	< 0.000050
Titanium	mg/L	< 0.025
Zinc	mg/L	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	170
Magnesium (Dissolved)	mg/L	144
Potassium (Dissolved)	mg/L	52.4
Sodium (Dissolved)	mg/L	937

MEL-24		9/1/2024	9/22/2024
Parameter	Unit		
WQ02- Conventional Parameters			
pH	pH units	7.21	7.30
Turbidity	NTU	130	23
Hardness, as CaCO ₃	mg/L	1620	930
Total alkalinity, as CaCO ₃	mg/L	200	150

TDS	mg/L	4060	2250
TDS, calculated	mg/L	3500	2200
TSS	mg/L	23	31
WQ03- Major Ions			
Chloride	mg/L	780	400
Cyanide	mg/L	0.114	0.0681
Fluoride	mg/L	0.26	0.22
Silica	mg/L	24	12
Sulfate	mg/L	1400	1100
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (as N)	mg/L	29	20
Nitrate (as N)	mg/L	< 0.10	0.89
Nitrite (as N)	mg/L	< 0.010	0.031
Total phosphorus	mg/L	1.7	0.63
Orthophosphate (P)	mg/L	0.21	0.21
WQ06- Total Metals			
Aluminum	mg/L	1.44	0.418
Arsenic	mg/L	1.55	0.511
Barium	mg/L	0.105	0.0569
Cadmium	mg/L	0.000574	0.000185
Chromium	mg/L	0.0100	0.0050
Copper	mg/L	0.0365	0.0277
Iron	mg/L	7.33	1.76
Lead	mg/L	0.0667	0.0167
Manganese	mg/L	0.633	0.249
Mercury	mg/L	< 0.00010	< 0.00010
Molybdenum	mg/L	0.0557	0.0372
Nickel	mg/L	0.0394	0.0220
Selenium	mg/L	0.00233	0.00276
Silver	mg/L	0.00138	0.000117
Thallium	mg/L	< 0.000050	0.000019
Titanium	mg/L	0.040	0.0120
Zinc	mg/L	0.653	0.373
WQ07- Dissolved Metals			
Calcium (Dissolved)	mg/L	579	365
Magnesium (Dissolved)	mg/L	40.0	28.6
Potassium (Dissolved)	mg/L	109	68.3
Sodium (Dissolved)	mg/L	430	239

MEL-25		9/4/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.27
TSS	mg/L	13
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	< 0.050
WQ05- General Organics		
Total oil and grease	mg/L	< 0.50
WQ06- Total Metals		
Arsenic	mg/L	0.00602
Copper	mg/L	0.00379
Lead	mg/L	0.00056
Nickel	mg/L	0.0086
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)	mg/L	-
F2 (C10-C16)	mg/L	< 0.1
F3 (C16-C34)	mg/L	< 0.2
F4 (C34-C50)	mg/L	< 0.2

MEL-SR1		9/4/2024	9/28/2024
Parameter	Unit		
WQ02- Conventional Parameters			
pH	pH units	8.03	8.07
Turbidity	NTU	0.6	0.7
Hardness, as CaCO ₃	mg/L	483	387
Total alkalinity, as CaCO ₃	mg/L	150	180
TDS	mg/L	1110	955
TDS, calculated	mg/L	940	830
TSS	mg/L	2	1
WQ03- Major Ions			
Chloride	mg/L	260	210
Cyanide	mg/L	0.00082	0.00063
Fluoride	mg/L	0.15	0.13
Silica	mg/L	5.2	4.4

Sulfate	mg/L	290	230
WQ04- Nutrients and Chlorophyll a			
Ammonia Nitrogen (as N)	mg/L	< 0.050	0.37
Nitrate (as N)	mg/L	0.19	0.44
Nitrite (as N)	mg/L	< 0.010	0.011
Total phosphorus	mg/L	< 0.020	< 0.020
Orthophosphate (P)	mg/L	< 0.010	< 0.010
WQ05- General Organics			
Total oil and grease	mg/L	0.80	< 0.50
WQ06- Total Metals			
Aluminum	mg/L	0.0246	0.0228
Arsenic	mg/L	0.00382	0.00383
Barium	mg/L	0.0604	0.0515
Cadmium	mg/L	0.000020	0.000017
Chromium	mg/L	< 0.0010	< 0.0010
Copper	mg/L	0.00376	0.00444
Iron	mg/L	0.112	0.080
Lead	mg/L	< 0.00020	< 0.00020
Manganese	mg/L	0.0254	0.0212
Mercury	mg/L	< 0.00001	< 0.00001
Molybdenum	mg/L	0.0012	0.0019
Nickel	mg/L	0.0170	0.0197
Selenium	mg/L	0.00012	0.00013
Silver	mg/L	< 0.000020	< 0.000020
Thallium	mg/L	0.000013	< 0.000010
Titanium	mg/L	< 0.0050	< 0.0050
Zinc	mg/L	0.0215	0.0101
WQ07- Dissolved Metals			
Calcium (Dissolved)	mg/L	150	128
Magnesium (Dissolved)	mg/L	28.0	25.0
Potassium (Dissolved)	mg/L	14.0	12.8
Sodium (Dissolved)	mg/L	114	112

MEL-SR16		9/27/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.80
Turbidity	NTU	0.3
Hardness, as CaCO ₃	mg/L	248
Total alkalinity, as CaCO ₃	mg/L	92
TDS	mg/L	510

TDS, calculated	mg/L	370
TSS	mg/L	<1
WQ03- Major Ions		
Chloride	mg/L	76
Cyanide	mg/L	<0.00050
Fluoride	mg/L	<0.10
Silica	mg/L	3.3
Sulfate	mg/L	120
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	<0.050
Nitrate (as N)	mg/L	0.29
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	0.0124
Arsenic	mg/L	0.00433
Barium	mg/L	0.0427
Cadmium	mg/L	<0.000010
Chromium	mg/L	<0.0010
Copper	mg/L	0.00201
Iron	mg/L	0.045
Lead	mg/L	<0.00020
Manganese	mg/L	0.0054
Mercury	mg/L	<0.00001
Molybdenum	mg/L	0.0012
Nickel	mg/L	0.0038
Selenium	mg/L	0.00011
Silver	mg/L	<0.000020
Thallium	mg/L	<0.000010
Titanium	mg/L	<0.0050
Zinc	mg/L	<0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	75.1
Magnesium (Dissolved)	mg/L	14.7
Potassium (Dissolved)	mg/L	6.08
Sodium (Dissolved)	mg/L	22.7

MEL-SR22		9/18/2024
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.67
Turbidity	NTU	1.0
Hardness, as CaCO ₃	mg/L	87.0
Total alkalinity, as CaCO ₃	mg/L	40
TDS	mg/L	190
TDS, calculated	mg/L	170
TSS	mg/L	3
WQ03- Major Ions		
Chloride	mg/L	23
Cyanide	mg/L	< 0.00050
Fluoride	mg/L	< 0.10
Silica	mg/L	0.66
Sulfate	mg/L	67
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 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	0.0164
Arsenic	mg/L	0.00084
Barium	mg/L	0.0330
Cadmium	mg/L	0.000029
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00260
Iron	mg/L	0.145
Lead	mg/L	< 0.00020
Manganese	mg/L	0.0040
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0017
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Thallium	mg/L	< 0.000010
Titanium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050

WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	31.7
Magnesium (Dissolved)	mg/L	5.42
Potassium (Dissolved)	mg/L	3.79
Sodium (Dissolved)	mg/L	14.7