



**Meliadine Gold Mine
NWB 2AM-MEL1631
September 2025 Monthly Report**

Prepared for:

Nunavut Water Board

Prepared by:

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SECTION 1 • BACKGROUND

As required under Part I, Item 8 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 2025.

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 2025

Usage	Unit	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2025 Total
MEL-11 ¹	m ³	40,096	44,128	50,163	46,201	53,972	33,147	54,531	52,989	47,956	-	-	-	423,183
Dust suppression ²	m ³	0	0	0	0	0	0	0	0	-	-	-	-	0
Dust suppression ³	m ³	0	0	0	0	174	665	1,286	945	821	-	-	-	3,890

2.2 DEWATERING ACTIVITIES

One pond (1) pond (A8) was 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 Water obtained along AWA/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 2025

Location	Unit	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2025 Total
MEL-14	m ³	0	0	0	0	0	326,050 ⁴	403,228	314,572	77,018	-	-	-	1,120,868
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	1,500	0	-	-	-	1,500

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 2025

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2025 Total
Wastewater Discharge (m ³)		4,973	4,474	4,930.4	4,876.5	5015.9	4,823	4,989	5,226	5,102	-	-	-	44,407
Sewage Sludge	Amount (m ³)	12	10	12.40	11.20	9.4	10.5	10.1	10.9	9.1	-	-	-	95.6
	Disposal Location	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	WRSF3	-	-	-	-

2.6 MONITORING ANALYTICAL DATA

Twenty (20) samples related to the Water Licence were taken during the month. The analytical results are presented in Appendix.

⁴ Volume of water discharge in Meliadine Lake in June was updated in July monthly report.

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			2025 Total
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Landfill (Survey)	m ³	33,105			27,277			27,190			-			-
Landfarm (Survey)	m ³	849 ⁵			712			704			-			-
Landfarm ⁶	m ³	2	0.8	23.85	17.8	80.01	3	25.05	9.50	4.75	-	-	-	166.76

⁵ From landfarm survey conducted in November 2024. 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 2025

Material (tonnes)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Cumulative 2025
Processed Ore		158,386	189,690	209,731	196,665	226,886	121,619	236,015	203,612	187,493	-	-	-	1,730,097
Waste Rock	Removed from open pit mining	382,704	369,748	457,569	528,808	610,631	242,664	460,794	390,587	341,553	-	-	-	3,785,058
	Removed from underground mining	99,563	87,430	89,629	80,238	50,097	65,115	62,408	59,047	91,143	-	-	-	684,671
	Used as underground dry rockfill	44,117	47,159	56,034	47,094	50,097	48,215	53,501	44,927	43,209	-	-	-	434,353
Tailings	Send to TSF	128,762	161,625	176,249	169,507	192,605	106,322	214,306	177,294	159,650	-	-	-	1,486,320
	Used as paste underground backfill	29,624	28,065	33,482	27,158	34,281	15,297	21,709	26,318	27,843	-	-	-	243,777

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. Three (3) reportable spills 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 01, 2025 3:00:00 PM	Hydraulic Oil	190L	Portal 3	Underground Bolter	a Mine Underground bolter operator realized that the hydraulic hose on his equipment failed while they were working on the new Portal 3 in TIRI01 Open Pit. Approximately 190 L of hydraulic oil was spilled on the ground at TIRI01.
Thursday, September 04, 2025 6:30:00 AM	Diesel fuel	10.00	KCG parking	CAT 980M Loader	During a routine walkaround inspection, the operator noticed a wet spot beneath the equipment. Upon notifying their supervisor, it was determined that the spill originated from the breather during refueling.
Sunday, September 14, 2025 10:30:00 AM	Diesel fuel	11.00	3 Million Fuel Farm	scoop and wiggins	While refueling the scoop, the small nozzle failed to shut off automatically, causing the tank to overflow.
Sunday, September 14, 2025 3:30:00 PM	Hydraulic oil	2.00	Apache Pass	Excavator HB -365 # 23-0304	While operating the excavator, the worker observed oil leaking from the top of the main boom. Inspection revealed a worn O-ring in the hose.
Wednesday, September 24, 2025 6:30:00 AM	Hydraulic oil	60.00	Portal 3	Scoop 6	While mucking a blast, the operator was preparing to dump material onto the Portal 3 waste pad when a

					hydraulic hose on the lift cylinder failed.
Wednesday, September 24, 2025 2:30:00 PM	Diesel Exhaust Fluid (DEF)	200L	Dome 3	Tote	a Mine Underground (Mine UG) forklift operator was loading DEF totes onto a flatbed truck for transport and realized that they punctured one of the totes with their forks. They quickly tilted the punctured tote to reduce the amount of DEF spilled, but around 200L of that tote still spilled onto the ground at Dome 3.
Saturday, September 27, 2025 12:30:00 AM	Engine coolant	10.00	TIRI-01	Haul truck HD605	A coolant hose ruptured on the haul truck, resulting in a 10L engine coolant spill.
Monday, September 29, 2025 10:30:00 PM	Engine Oil	30.00	CP2	Haul Truck CAT775G	Following an operational error, a haul truck rolled onto its side, resulting in a 30L engine oil leak through the breather.
Tuesday, September 30, 2025 6:30:00 AM	Sewage	10L	MSB lift station	Vac truck	a Surface Operations employee was training another on how to use the vacuum truck to perform a sewage transfer at the MSB lift station. Suddenly, the employee realized that some sewage was leaking from a valve, releasing approximately 10 L of sewage onto the ground.

Appendix – Monitoring Analytical Data

MEL-11		9/1/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.57
Dissolved Oxygen	%	100.7
Turbidity	NTU	0.3
Conductivity	ms/cm	0.127
Hardness, as CaCO ₃	mg/L	30.5
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	70
TDS, calculated	mg/L	61
TSS	mg/L	1
Total organic carbon	mg/L	3.4
Dissolved organic carbon	mg/L	3.3
WQ03- Major Ions		
Chloride	mg/L	16
Cyanide	mg/L	< 0.00050
Cyanide (free)	mg/L	0.00064
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.37
Sulfate	mg/L	10
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	0.22
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0053
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00079
Barium	mg/L	0.0092
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	0.022
Lead	mg/L	< 0.00020

Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0068
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Strontium	mg/L	0.0519
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	< 0.00010
Vanadium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00080
Barium	mg/L	0.0096
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	10.8
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00087
Iron	mg/L	0.0078
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	1.68
Manganese	mg/L	< 0.0010
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.12
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	7.30
Strontium	mg/L	0.0532
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	< 0.09
F3 (C16-C34)	mg/L	< 0.2
F4 (C34-C50)	mg/L	< 0.2

MEL-12		9/1/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.80
Dissolved Oxygen	%	102.0
Turbidity	NTU	5.4
Conductivity	ms/cm	1.71
Hardness, as CaCO ₃	mg/L	352
Total alkalinity, as CaCO ₃	mg/L	80
TDS	mg/L	1050
TDS, calculated	mg/L	980
TSS	mg/L	26
Total organic carbon	mg/L	9.7
WQ03- Major Ions		
Chloride	mg/L	370
Cyanide	mg/L	0.00146
Fluoride	mg/L	0.11
Silica	mg/L	0.52
Sulfate	mg/L	210
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.091
Nitrate (as N)	mg/L	5.60
Nitrite (as N)	mg/L	0.052
Total phosphorus	mg/L	0.12
Orthophosphate (P)	mg/L	0.051
WQ06- Total Metals		
Aluminum	mg/L	0.429

Arsenic	mg/L	0.0312
Barium	mg/L	0.0410
Cadmium	mg/L	0.000012
Chromium	mg/L	0.0011
Copper	mg/L	0.00366
Iron	mg/L	0.962
Lead	mg/L	0.00196
Manganese	mg/L	0.0826
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0046
Nickel	mg/L	0.0051
Selenium	mg/L	0.00047
Silver	mg/L	< 0.000020
Thallium	mg/L	0.000012
Titanium	mg/L	0.0112
Zinc	mg/L	0.0058
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	95.4
Magnesium (Dissolved)	mg/L	31.7
Potassium (Dissolved)	mg/L	16.4
Sodium (Dissolved)	mg/L	182

MEL-13		9/8/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.61
Dissolved Oxygen	mg/L	11.1
Turbidity	NTU	0.4
Conductivity	ms/cm	0.160
Hardness, as CaCO ₃	mg/L	37.3
Total alkalinity, as CaCO ₃	mg/L	24
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	24
TDS	mg/L	60
TDS, calculated	mg/L	70
TSS	mg/L	1
Total organic carbon	mg/L	3.9
Dissolved organic carbon	mg/L	3.7
WQ03- Major Ions		
Chloride	mg/L	18
Cyanide	mg/L	< 0.00050

Cyanide (free)	mg/L	< 0.00050
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.36
Sulfate	mg/L	14
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	0.00376
Antimony	mg/L	< 0.000020
Arsenic	mg/L	0.000764
Barium	mg/L	0.0110
Beryllium	mg/L	< 0.000010
Boron	mg/L	< 0.01
Cadmium	mg/L	< 0.0000050
Chromium	mg/L	0.00012
Cobalt	mg/L	0.0000193
Copper	mg/L	0.000826
Iron	mg/L	0.0125
Lead	mg/L	< 0.0000050
Lithium	mg/L	0.00118
Manganese	mg/L	0.00500
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.000158
Nickel	mg/L	0.000688
Selenium	mg/L	< 0.000040
Silver	mg/L	< 0.0000050
Strontium	mg/L	0.0667
Thallium	mg/L	0.0000025
Tin	mg/L	< 0.00020
Titanium	mg/L	< 0.00050
Uranium	mg/L	0.0000317
Vanadium	mg/L	< 0.00020
Zinc	mg/L	0.00048
WQ07- Dissolved Metals		
Aluminum	mg/L	0.00258
Antimony	mg/L	0.000024
Arsenic	mg/L	0.000742
Barium	mg/L	0.0110

Beryllium	mg/L	< 0.000010
Boron	mg/L	< 0.01
Cadmium	mg/L	< 0.0000050
Calcium (Dissolved)	mg/L	11.3
Chromium	mg/L	0.00016
Cobalt	mg/L	0.0000173
Copper	mg/L	0.00105
Iron	mg/L	0.0036
Lead	mg/L	0.0000064
Lithium	mg/L	0.00111
Magnesium (Dissolved)	mg/L	2.02
Manganese	mg/L	0.000298
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.000161
Nickel	mg/L	0.000716
Potassium (Dissolved)	mg/L	1.35
Selenium	mg/L	0.000045
Silver	mg/L	< 0.0000050
Sodium (Dissolved)	mg/L	8.29
Strontium	mg/L	0.0686
Thallium	mg/L	< 0.0000020
Tin	mg/L	< 0.00020
Titanium	mg/L	< 0.00050
Uranium	mg/L	0.0000345
Vanadium	mg/L	< 0.00020
Zinc	mg/L	0.00056
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		9/1/2025	9/8/2025	9/15/2025	9/22/2025	9/28/2025
Parameter	Unit					
WQ02- Conventional Parameters						
pH	pH units	7.67	7.78	7.54	7.91	7.81
Dissolved Oxygen	mg/L	6.7	11.1	10.2	11.0	8.86
Turbidity	NTU	0.9	0.6	1.1	0.9	0.5
Conductivity	ms/cm	1.72	2.38	2.39	2.45	2.44
Hardness, as CaCO ₃	mg/L	370	450	502	573	565
Total alkalinity, as CaCO ₃	mg/L	70	87	87	87	83
Carbonate, as CaCO ₃	mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bicarbonate, as CaCO ₃	mg/L	70	87	87	86	82
TDS	mg/L	1050	1390	1470	1490	1630
TDS, calculated	mg/L	970	1400	1400	1400	1500
TSS	mg/L	3	3	5	6	4
Total organic carbon	mg/L	7.1	8.2	9.0	9.3	9.3
Dissolved organic carbon	mg/L	6.7	7.7	8.4	8.5	8.5
WQ03- Major Ions						
Chloride	mg/L	380	520	530	570	590
Cyanide	mg/L	0.00102	0.00124	0.00096	0.00088	0.00121
Cyanide (free)	mg/L	0.00052	0.00114	0.00098	0.00096	0.00117
Cyanide (WAD)	mg/L	<0.00050	0.0011	0.00066	0.00073	0.0011
Fluoride	mg/L	<0.10	0.11	0.10	0.10	0.10
Silica	mg/L	0.41	0.53	0.20	0.14	0.40
Sulfate	mg/L	190	270	270	260	290
WQ04- Nutrients and Chlorophyll a						
Ammonia Nitrogen (as N)	mg/L	0.054	0.86	0.31	0.11	0.059
Un-Ionized Ammonia, calculated	mg/L	<0.0004	0.0071	0.0026	0.0006	0.0010
Nitrate (as N)	mg/L	5.38	8.73	10.1	9.47	10.0
Nitrite (as N)	mg/L	0.046	0.208	0.184	0.066	0.039
Total Kjeldahl nitrogen	mg/L	0.47	0.75	0.98	0.70	0.98

Total phosphorus	mg/L	0.025	< 0.020	0.049	0.032	< 0.020
Orthophosphate (P)	mg/L	< 0.010	< 0.010	0.012	0.012	< 0.010
WQ06- Total Metals						
Aluminum	mg/L	0.460	0.553	0.720	1.09	0.720
Antimony	mg/L	0.00118	0.00126	0.00143	0.00134	0.00135
Arsenic	mg/L	0.00717	0.00775	0.00892	0.0125	0.00761
Barium	mg/L	0.0394	0.0402	0.0474	0.0504	0.0461
Beryllium	mg/L	<0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Boron	mg/L	0.170	0.203	0.217	0.241	0.217
Cadmium	mg/L	<0.000010	< 0.000010	0.000013	< 0.000010	< 0.000010
Chromium	mg/L	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Cobalt	mg/L	0.00064	0.00082	0.00080	0.00080	0.00083
Copper	mg/L	0.00226	0.00219	0.00253	0.00264	0.00297
Iron	mg/L	0.045	0.027	0.048	0.050	0.020
Lead	mg/L	<0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Lithium	mg/L	0.0214	0.0196	0.0216	0.0242	0.0242
Manganese	mg/L	0.0358	0.0547	0.0597	0.0332	0.0258
Mercury	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	0.0050	0.0051	0.0059	0.0057	0.0060
Nickel	mg/L	0.0038	0.0053	0.0050	0.0057	0.0054
Selenium	mg/L	0.00049	0.00068	0.00075	0.00069	0.00074
Silver	mg/L	<0.000020	< 0.000020	< 0.000020	< 0.000020	< 0.000020
Strontium	mg/L	1.07	1.04	1.25	1.41	1.46
Thallium	mg/L	<0.000010	< 0.000010	< 0.000010	0.000014	0.000014
Tin	mg/L	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Titanium	mg/L	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Uranium	mg/L	0.00145	0.00290	0.00340	0.00463	0.00363
Vanadium	mg/L	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Zinc	mg/L	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
WQ07- Dissolved Metals						
Aluminum	mg/L	0.106	0.176	0.162	0.160	0.178

Antimony	mg/L	0.00118	0.00147	0.00132	0.00120	0.00131
Arsenic	mg/L	0.00507	0.0317	0.00548	0.00638	0.00499
Barium	mg/L	0.0387	0.0457	0.0442	0.0467	0.0440
Beryllium	mg/L	<0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Boron	mg/L	0.162	0.205	0.220	0.237	0.200
Cadmium	mg/L	<0.000010	0.000011	< 0.000010	< 0.000010	0.000010
Calcium (Dissolved)	mg/L	100	137	125	141	130
Chromium	mg/L	<0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Cobalt	mg/L	0.00057	0.00339	0.00078	0.00074	0.00080
Copper	mg/L	0.00215	0.00315	0.00225	0.00222	0.00284
Iron	mg/L	0.0061	0.0087	0.0052	< 0.0050	< 0.0050
Lead	mg/L	<0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Lithium	mg/L	0.0204	0.0213	0.0222	0.0232	0.0216
Magnesium (Dissolved)	mg/L	31	44.6	43.7	48.3	50.3
Manganese	mg/L	0.0329	0.0621	0.0512	0.0272	0.0237
Mercury	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	0.0045	0.0077	0.0057	0.0052	0.0058
Nickel	mg/L	0.0037	0.0059	0.0048	0.0050	0.0052
Potassium (Dissolved)	mg/L	17	23.6	21.2	22.5	23.6
Selenium	mg/L	0.00046	0.00272	0.00068	0.00066	0.00072
Silver	mg/L	<0.000020	0.000040	< 0.000020	< 0.000020	< 0.000020
Sodium (Dissolved)	mg/L	180	278	264	296	314
Strontium	mg/L	1.04	1.27	1.19	1.26	1.41
Thallium	mg/L	<0.000010	0.000013	< 0.000010	0.000012	0.000012
Tin	mg/L	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Titanium	mg/L	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Uranium	mg/L	0.00117	0.00344	0.00335	0.00387	0.00319
Vanadium	mg/L	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Zinc	mg/L	<0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
WQ08- Radionuclides						
Radium-226	Bq/l	< 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
Ethylbenzene	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Toluene	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Xylenes	mg/L	< 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
o-Xylene	mg/L	< 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
F1 (C6-C10)	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
F2 (C10-C16)	mg/L	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
F3 (C16-C34)	mg/L	< 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

MEL-15		9/7/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.88
Dissolved Oxygen	%	122.7
Turbidity	NTU	0.4
Conductivity	ms/cm	0.181
Hardness, as CaCO ₃	mg/L	67.0
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	75
TDS, calculated	mg/L	92
TSS	mg/L	< 1
Total organic carbon	mg/L	4.7
Dissolved organic carbon	mg/L	5.0
WQ03- Major Ions		
Chloride	mg/L	16
Cyanide	mg/L	0.00064
Cyanide (free)	mg/L	0.00060
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.76
Sulfate	mg/L	12
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	0.24
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	0.00209
Barium	mg/L	0.0147
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00056
Iron	mg/L	0.055
Lead	mg/L	< 0.00020

Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0083
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	0.111
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
WQ07- Dissolved Metals		
Aluminum	mg/L	< 0.0030
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00188
Barium	mg/L	0.0147
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	22.9
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00067
Iron	mg/L	0.0308
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	2.56
Manganese	mg/L	0.0024
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	6.36
Strontium	mg/L	0.108
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
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MEL-16		9/7/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.73
Dissolved Oxygen	%	110.1
Turbidity	NTU	0.5
Conductivity	ms/cm	0.199
Hardness, as CaCO ₃	mg/L	73.6
Total alkalinity, as CaCO ₃	mg/L	45
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	45
TDS	mg/L	95
TDS, calculated	mg/L	99
TSS	mg/L	< 1
Total organic carbon	mg/L	4.4
Dissolved organic carbon	mg/L	5.2
WQ03- Major Ions		
Chloride	mg/L	23
Cyanide	mg/L	0.00061
Cyanide (free)	mg/L	0.00073
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.53
Sulfate	mg/L	12
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	0.29
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0075
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.0106
Barium	mg/L	0.0288
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010

Copper	mg/L	0.00123
Iron	mg/L	0.099
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0044
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	0.124
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	0.0037
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00873
Barium	mg/L	0.0271
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	24.1
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00120
Iron	mg/L	0.0374
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium (Dissolved)	mg/L	3.00
Manganese	mg/L	0.0022
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium (Dissolved)	mg/L	1.79
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	7.51
Strontium	mg/L	0.119
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		9/7/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.03
Dissolved Oxygen	%	94.5
Turbidity	NTU	0.5
Conductivity	ms/cm	0.508
Hardness, as CaCO ₃	mg/L	175
Total alkalinity, as CaCO ₃	mg/L	80
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	79
TDS	mg/L	285
TDS, calculated	mg/L	270
TSS	mg/L	1
Total organic carbon	mg/L	11
Dissolved organic carbon	mg/L	10
WQ03- Major Ions		
Chloride	mg/L	66
Cyanide	mg/L	0.00090
Cyanide (free)	mg/L	0.00091
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	1.7
Sulfate	mg/L	68
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.069
Nitrate (as N)	mg/L	< 0.10
Nitrite (as N)	mg/L	< 0.010
Total Kjeldahl nitrogen	mg/L	0.58
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	0.00139
Barium	mg/L	0.0428
Beryllium	mg/L	< 0.00010

Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00098
Iron	mg/L	0.112
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0056
Manganese	mg/L	0.0250
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0016
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Strontium	mg/L	0.359
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	0.00017
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	0.00130
Barium	mg/L	0.0421
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	57.1
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00101
Iron	mg/L	0.0657
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0052
Magnesium (Dissolved)	mg/L	8.28
Manganese	mg/L	0.0184
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	0.0016
Potassium (Dissolved)	mg/L	3.61
Selenium	mg/L	< 0.00010
Silver	mg/L	< 0.000020
Sodium (Dissolved)	mg/L	23.3

Strontium	mg/L	0.359
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	0.00021
Vanadium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050

MEL-18		9/7/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.76
Dissolved Oxygen	%	107.8
Turbidity	NTU	0.7
Conductivity	ms/cm	0.261
Hardness, as CaCO ₃	mg/L	95.4
Total alkalinity, as CaCO ₃	mg/L	51
Carbonate, as CaCO ₃	mg/L	< 1.0
Bicarbonate, as CaCO ₃	mg/L	50
TDS	mg/L	130
TDS, calculated	mg/L	130
TSS	mg/L	1
Total organic carbon	mg/L	4.5
Dissolved organic carbon	mg/L	4.6
WQ03- Major Ions		
Chloride	mg/L	36
Cyanide	mg/L	0.00055
Cyanide (free)	mg/L	0.00082
Cyanide (WAD)	mg/L	< 0.00050
Silica	mg/L	0.65
Sulfate	mg/L	20
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	0.28
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0042
Antimony	mg/L	< 0.00050

Arsenic	mg/L	0.00388
Barium	mg/L	0.0217
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00077
Iron	mg/L	0.055
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0087
Manganese	mg/L	0.0076
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	0.213
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	0.00327
Barium	mg/L	0.0218
Beryllium	mg/L	< 0.00010
Boron	mg/L	< 0.050
Cadmium	mg/L	< 0.000010
Calcium (Dissolved)	mg/L	31.4
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00088
Iron	mg/L	0.0247
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0090
Magnesium (Dissolved)	mg/L	4.21
Manganese	mg/L	0.0023
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	9.73
Strontium	mg/L	0.204
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		9/3/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.89
Dissolved Oxygen	%	103.7
Turbidity	NTU	0.2
Hardness, as CaCO ₃	mg/L	492
Total alkalinity, as CaCO ₃	mg/L	87
TDS	mg/L	1510
TDS, calculated	mg/L	1500
TSS	mg/L	3
WQ03- Major Ions		
Chloride	mg/L	560
Cyanide	mg/L	0.00108
Fluoride	mg/L	0.16
Silica	mg/L	0.89
Sulfate	mg/L	340
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.059
Nitrate (as N)	mg/L	8.49
Nitrite (as N)	mg/L	0.034
Total phosphorus	mg/L	< 0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.0178
Arsenic	mg/L	0.0109
Barium	mg/L	0.0394
Cadmium	mg/L	0.000030
Chromium	mg/L	< 0.0010
Copper	mg/L	0.00334

Iron	mg/L	0.022
Lead	mg/L	< 0.00020
Manganese	mg/L	0.0361
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0033
Nickel	mg/L	0.0254
Selenium	mg/L	0.00130
Silver	mg/L	< 0.000020
Thallium	mg/L	0.000018
Titanium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	146
Magnesium (Dissolved)	mg/L	45.6
Potassium (Dissolved)	mg/L	23.7
Sodium (Dissolved)	mg/L	304

MEL-20		9/3/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.80
Dissolved Oxygen	%	32.6
Turbidity	NTU	1.1
Conductivity	ms/cm	8.21
Hardness, as CaCO ₃	mg/L	1740
Total alkalinity, as CaCO ₃	mg/L	140
TDS	mg/L	5300
TDS, calculated	mg/L	5700
TSS	mg/L	11
Total organic carbon	mg/L	11
WQ03- Major Ions		
Chloride	mg/L	2100
Cyanide	mg/L	0.00284
Cyanide (free)	mg/L	0.00146
Cyanide (WAD)	mg/L	0.0019
Silica	mg/L	5.2
Sulfate	mg/L	1100
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	15
Nitrate (as N)	mg/L	68.6
Nitrite (as N)	mg/L	0.704

Total phosphorus	mg/L	0.026
Orthophosphate (P)	mg/L	0.015
WQ06- Total Metals		
Aluminum	mg/L	0.134
Arsenic	mg/L	0.0815
Barium	mg/L	0.0722
Cadmium	mg/L	0.000430
Chromium	mg/L	< 0.0050
Copper	mg/L	0.0071
Iron	mg/L	0.383
Lead	mg/L	0.0033
Manganese	mg/L	1.15
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0104
Nickel	mg/L	0.105
Selenium	mg/L	0.00550
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	427
Magnesium (Dissolved)	mg/L	211
Potassium (Dissolved)	mg/L	75.7
Sodium (Dissolved)	mg/L	1400

MEL-21		9/3/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.04
Dissolved Oxygen	%	75.6
Turbidity	NTU	4.9
Hardness, as CaCO ₃	mg/L	703
Total alkalinity, as CaCO ₃	mg/L	170
TDS	mg/L	2830
TDS, calculated	mg/L	2900
TSS	mg/L	8
WQ03- Major Ions		
Chloride	mg/L	1100
Cyanide	mg/L	0.00621
Fluoride	mg/L	0.24

Silica	mg/L	3.9
Sulfate	mg/L	580
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	12
Nitrate (as N)	mg/L	18.5
Nitrite (as N)	mg/L	0.547
Total phosphorus	mg/L	0.020
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.244
Arsenic	mg/L	0.0214
Barium	mg/L	0.0603
Cadmium	mg/L	0.000071
Chromium	mg/L	< 0.0020
Copper	mg/L	0.0048
Iron	mg/L	0.458
Lead	mg/L	0.00060
Manganese	mg/L	0.231
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0113
Nickel	mg/L	0.0220
Selenium	mg/L	0.00220
Silver	mg/L	< 0.000040
Thallium	mg/L	0.000020
Titanium	mg/L	< 0.010
Zinc	mg/L	< 0.010
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	151
Magnesium (Dissolved)	mg/L	92.8
Potassium (Dissolved)	mg/L	44.6
Sodium (Dissolved)	mg/L	713

MEL-22		9/3/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.82
Dissolved Oxygen	%	105.3
Turbidity	NTU	7.9
Hardness, as CaCO ₃	mg/L	1120
Total alkalinity, as CaCO ₃	mg/L	80
TDS	mg/L	3540

TDS, calculated	mg/L	3400
TSS	mg/L	55
WQ03- Major Ions		
Chloride	mg/L	1500
Cyanide	mg/L	0.00172
Fluoride	mg/L	0.14
Silica	mg/L	1.8
Sulfate	mg/L	560
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	1.7
Nitrate (as N)	mg/L	24.1
Nitrite (as N)	mg/L	0.266
Total phosphorus	mg/L	0.034
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	0.290
Arsenic	mg/L	0.00697
Barium	mg/L	0.0870
Cadmium	mg/L	0.000030
Chromium	mg/L	< 0.0020
Copper	mg/L	0.0034
Iron	mg/L	0.932
Lead	mg/L	0.00058
Manganese	mg/L	0.118
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0062
Nickel	mg/L	0.0225
Selenium	mg/L	0.00167
Silver	mg/L	< 0.000040
Thallium	mg/L	0.000051
Titanium	mg/L	0.014
Zinc	mg/L	< 0.010
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	320
Magnesium (Dissolved)	mg/L	107
Potassium (Dissolved)	mg/L	64.7
Sodium (Dissolved)	mg/L	667

MEL-23		9/3/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.04
Dissolved Oxygen	%	32.5
Turbidity	NTU	0.4
Hardness, as CaCO ₃	mg/L	1630
Total alkalinity, as CaCO ₃	mg/L	160
TDS	mg/L	5210
TDS, calculated	mg/L	5100
TSS	mg/L	5
WQ03- Major Ions		
Chloride	mg/L	2000
Cyanide	mg/L	0.00161
Fluoride	mg/L	0.28
Silica	mg/L	4.8
Sulfate	mg/L	1200
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	4.9
Nitrate (as N)	mg/L	24.3
Nitrite (as N)	mg/L	0.479
Total phosphorus	mg/L	0.022
Orthophosphate (P)	mg/L	< 0.010
WQ06- Total Metals		
Aluminum	mg/L	< 0.015
Arsenic	mg/L	0.0180
Barium	mg/L	0.0602
Cadmium	mg/L	0.000192
Chromium	mg/L	< 0.0050
Copper	mg/L	0.0038
Iron	mg/L	< 0.050
Lead	mg/L	< 0.0010
Manganese	mg/L	0.403
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0137
Nickel	mg/L	0.155
Selenium	mg/L	0.00295
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	378
Magnesium (Dissolved)	mg/L	206
Potassium (Dissolved)	mg/L	80.2
Sodium (Dissolved)	mg/L	1060

MEL-24		9/28/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	7.62
Turbidity	NTU	130
Hardness, as CaCO ₃	mg/L	1919
Total alkalinity, as CaCO ₃	mg/L	200
TDS, calculated	mg/L	4300
TSS	mg/L	180
WQ03- Major Ions		
Chloride	mg/L	1200
Cyanide	mg/L	0.0879
Fluoride	mg/L	0.34
Silica	mg/L	16
Sulfate	mg/L	1600
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	36
Nitrate (as N)	mg/L	0.10
Nitrite (as N)	mg/L	0.059
Total phosphorus	mg/L	1.1
Orthophosphate (P)	mg/L	<0.20
WQ06- Total Metals		
Aluminum	mg/L	2.89
Arsenic	mg/L	0.814
Barium	mg/L	0.102
Cadmium	mg/L	0.000291
Chromium	mg/L	0.0190
Copper	mg/L	0.0662
Iron	mg/L	10.1
Lead	mg/L	0.0617
Manganese	mg/L	0.505
Mercury	mg/L	<0.00010
Molybdenum	mg/L	0.244
Nickel	mg/L	0.0783
Selenium	mg/L	0.00426
Silver	mg/L	0.00062

Thallium	mg/L	<0.000050
Zinc	mg/L	0.936
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	623
Magnesium (Dissolved)	mg/L	47.6
Potassium (Dissolved)	mg/L	199
Sodium (Dissolved)	mg/L	600

MEL-25		9/24/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.10
TSS	mg/L	2
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	0.00323
Copper	mg/L	0.00271
Lead	mg/L	< 0.00020
Nickel	mg/L	0.0066
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	< 0.025
F2 (C10-C16)	mg/L	< 0.09
F3 (C16-C34)	mg/L	< 0.2
F4 (C34-C50)	mg/L	< 0.2

MEL-SR1		9/6/2025
Parameter	Unit	
WQ02- Conventional Parameters		
pH	pH units	8.05
Turbidity	NTU	0.3
Hardness, as CaCO3	mg/L	709

Total alkalinity, as CaCO ₃	mg/L	240
TDS, calculated	mg/L	1700
TSS	mg/L	1
WQ03- Major Ions		
Chloride	mg/L	740
Cyanide	mg/L	0.00068
Fluoride	mg/L	0.16
Silica	mg/L	4.5
Sulfate	mg/L	270
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	mg/L	0.073
Nitrate (as N)	mg/L	0.82
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	0.0184
Arsenic	mg/L	0.00867
Barium	mg/L	0.0792
Cadmium	mg/L	0.000062
Chromium	mg/L	<0.0020
Copper	mg/L	0.0041
Iron	mg/L	0.072
Lead	mg/L	<0.00040
Manganese	mg/L	0.0136
Mercury	mg/L	<0.00001
Molybdenum	mg/L	<0.0020
Nickel	mg/L	0.0475
Selenium	mg/L	<0.00020
Silver	mg/L	<0.000040
Thallium	mg/L	<0.000020
Zinc	mg/L	0.070
WQ07- Dissolved Metals		
Calcium (Dissolved)	mg/L	176
Magnesium (Dissolved)	mg/L	55.2
Potassium (Dissolved)	mg/L	22
Sodium (Dissolved)	mg/L	318