AGNICO EAGLE
MELIADINE

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

Prepared for:
Nunavut Water Board

Prepared by:
Agnico Eagle Mines Limited – Meliadine Division

Table of Contents

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 August 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 August 2022

	Monthly Usage (m^3)
Camp, Mill, Dust suppression (MEL-11)	36,961
Dust suppression (water obtained along AWAR/Meliadine River)	0
Total August	36,961
Year to date 2022	**300,358**

In August, 2,554 m^3 of reclaim water obtained from CP1 was used for dust suppression on site.

1.2 DEWATERING ACTIVITIES

Five (5) ponds (A40, B33, B33a, A9 and A38) were dewatered to Containment Pond 1 (CP1) during August as part of the permitted fish salvage. Total volume transferred to CP1 during August related to dewatering activities are presented in the table below.

Table 1.2: Volume transferred to CP1 from dewatered ponds in August 2022

Dewatered Pond	Volume (m^3)
A40	2,983
B33A	732
B33	1,026
A9	167
A38	231

1.3 MELIADINE DISCHARGE

Discharge from the EWTP into Meliadine Lake via the Final Discharge Point (MEL-14) started July 1st, 2022. A total of 33,585 m^3 was discharged throughout 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 4,912 m^3 of treated wastewater was discharged into CP1 during the month. Approximately 29.7 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 containments occurred during the month.

1.8 MONITORING ANALYTICAL DATA

Fifteen (15) 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 August 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 m^3 of material.

Approximately 1.5 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 m^3 of material.

1.10 ORE

Approximately 131,169 tonnes of ore were processed through the Mill during the month.

1.11 WASTE ROCK STORAGE FACILITY

A total of 48,481 tonnes of waste rock was removed in the underground mine development process during the month while 423,477 tonnes of waste rock were removed from open pit mining. 23,592 tonnes were used as underground dry rockfill.

1.12 TAILINGS

93,122 dry tonnes of filtered tailings were sent to the Tailing Storage Facility during the month. 38,047 tonnes of tailings were used for paste underground backfill.

SECTION 4 SPILL MANAGEMENT

4.1 INTERNAL AND REPORTABLE SPILLS

Spills reported internally (14) 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. Four (4) 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 in August 2022

Date and time of occurrence	If material not listed in dropdown or more details, enter here	Estimated quantity (l)	Exact location of incident	Description of incident	Describe immediate corrective actions
Tuesday, August 02, 2022 6:30:00 PM	Untreated Sewage	20.00	Wing C	An estimated 20 L of untreated sewage was spilled on the industrial pad due to an overflow of the Wing C lift station.	Upon discovery of the spill, a vacuum truck was dispatched to empty the lift station and recover the untreated sewage outside the lift station. Free liquid was pumped back into the main camp lift station. Absorbent pads were deployed to collect the remaining liquid and packaged for offsite disposal at a licensed disposal facility. The impacted surface was hand excavated and an estimated 15 kg of material was brought to Landfarm A.
Tuesday, August 02, 2022 7:00:00 PM	Untreated Sewage	400.00	WING 10	An estimated 400 L of untreated sewage was spilled on the industrial pad due to an overflow of the Wing 10 lift station.	Upon discovery of the spill, a vacuum truck was dispatched to empty the lift station and recover the liquid sewage outside the lift station. An estimated 30 L of free liquid was obtained with the vacuum truck and 1 m3 of surface material was brought to Landfarm A.
Friday, August 05, 2022 1:00:00 AM	Petroleum products	45.00	TSF Berm	A 349 excavator had mechanical failure, spilling 45 L	The equipment was stopped, and absorbent pads were deployed to contain

				of petroleum products.	and clean-up the spill. Spill pads were disposed of in Quatrex bags.
Saturday, August 06, 2022 5:30:00 AM	Petroleum products	50.00	Portal 1 in dome 3	A 50L hydraulic oil spill occurred when a worker forgot to close a hose while changing an empty hydraulic oil tote, which led to the spill on the floor inside Dome 3.	The hose was closed and connected properly. The spill was cleaned-up using the spill kit. Contaminated materials were disposed as hazmat.
Sunday, August 07, 2022 5:00:00 AM	Coolant	60.00	OP2 HG pile	A coolant hose on a loader failed.	Loader was turned off. Spill was contained and cleaned-up. Contaminated material was sent to the mill through the crusher, since the contaminated material was in a high grade pile of the ore pad.
Tuesday, August 09, 2022 11:30:00 AM	Hydraulic Oil	4.00	Crane pad	A hydraulic line on a Manitou failed while putting a cable reel into a sea can.	Operator turned off the equipment. Contaminated soil was recovered and put in a drum. The drum was taken to the hazmat laydown.
Tuesday, August 10, 2022 9:00:00 PM	Washbay Solids	300.00	At the snow dump beside CP1	An estimated 300 L of wash bay solids was spilled on the industrial pad during the transfer of solids from the vehicle wash bay to a haul truck.	Upon discovery of the spill, a vacuum truck was used to recover the wash bay solids and remediate the impacted area. The recovered material was placed in Landfarm A.
Saturday, August 13, 2022 7:30:00 PM	Hydraulic hose	300.00	Dome 3	Approximately 300 L of petroleum products were spilled inside lined Dome 3 when the operator of the fuel truck forgot to unplug the hydraulic refill hose as he was heading out of Dome 3. A fitting broke on the tank of the truck, resulting on the tank emptying on the ground.	The spill was contained, and contaminated soil was recovered and disposed of into Quatrex bags.

Sunday, August 14, 2022 12:00:00 AM	Petroleum products	50.00	Retro Pad	Approximately 50 L of petroleum products leaked out of a hazmat seacan at the retro pad, likely because of improper storage. A tote was likely overfilled, which resulted in leakage when the seacan was transported from the incinerator laydown to the hazmat pad. Oil leaked onto the floor of the seacan, leading to the spill.	Seacan will be inspected to verify the integrity of the totes inside. Spill pads were used to absorb the oil and disposed of appropriately.
Monday, August 15, 2022 7:30:00 AM	Ammonium Nitrate	6 KG	Seacan C17 on Dyno pad	An estimated 6 KG of ammonium nitrate was spilled on the Dyno industrial pad while opening a sealed seacan. The spill was reported to the Nunavut Spill Line as due diligence since the volume of spilled material was less than 50 KG which is the usual spill reporting threshold for oxidizing substances.	Upon discovery of the spill, Dyno operators used shovels and a loader to remediate the impacted area. The seacan was moved to ensure proper remediation could be achieved. The material that was removed was placed in boreholes in the open pit and used as blasting material.
Tuesday, August 16, 2022 4:00:00 PM	Partially Treated Bionest Effluent Water	20.00	Explo camp bionest #2	Effluent inside the bionest vessel was found to be leaking through the bolt holes of the seacan the vessel is housed in.	Upon discovery of the spill, sorbent pads and spill trays were place under the bionest seacan to collect partially treated effluent and a vacuum truck was used to ensure the spill trays did not over flow. A frost fighter was used to thaw the remaining partially treated effluent and a Vacuum truck remove the liquid as it thawed. The recovered material was processed through the Meliadine

					sewage treatment plant. After removal of the bionest seacans an inspection of the area under the seacan will be completed to determine if further remediation is required.
Thursday, August 25, 2022 2:30:00 PM	Hydraulic oil	70.00	Paste plant	While driving, the Hyster operator noticed an oil leak coming from the back of the equipment.	The equipment was stopped. Contaminated material was recovered and placed into the Landfarm.
Wednesday, August 31, 2022 12:00:00 AM	Hydraulic oil	15.00	Tiri-1	A hose failed on a drill in operation.	Equipment was stopped. Absorbent pads were used, and contaminated soil recovered. Contaminated materials were disposed of as hazmat.
Wednesday, August 31, 2022 5:00:00 PM	Diesel Fuel	200.00	Fuel farm portal 2	A 200 L fuel spill occurred in the lined refueling area of the 6M fuel farm. A haul truck hit the stairs, which shifted the seacan at the refueling area, creating a leak in the connection on the fuel line.	Absorbent pads were deployed and disposed of properly.

Appendix – Monitoring Analytical Data

MEL-11		8/16/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.38
Turbidity	**NTU**	0.2
Specific conductivity	**umhos/cm**	94
Hardness, as CaCO3	**mg/L**	26.7
Total alkalinity, as CaCO3	**mg/L**	20
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	20
TDS	**mg/L**	65
TDS, calculated	**mg/L**	47
TSS	**mg/L**	1
Total organic carbon	**mg/L**	3.2
Dissolved organic carbon	**mg/L**	3.3
WQ03- Major Ions		
Chloride	**mg/L**	13
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	< 0.0020
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	0.35
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**	0.23
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0055
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00069
Barium	**mg/L**	0.0078
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**	0.025
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020

Manganese	**mg/L**	0.0053
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**	0.0441
Thallium	**mg/L**	< 0.000010
Tin	**mg/L**	< 0.0050
Titanium	**mg/L**	< 0.0050
Uranium	**mg/L**	< 0.00010
Vanadium	**mg/L**	< 0.0050
Zinc	**mg/L**	< 0.0050
WQ07- Dissolved Metals		
Aluminum	**mg/L**	< 0.0030
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00064
Barium	**mg/L**	0.0074
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	8.04
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00085
Iron	**mg/L**	0.0078
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Magnesium (Dissolved)	**mg/L**	1.44
Manganese	**mg/L**	< 0.0010
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	0.979
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	5.94
Strontium	**mg/L**	0.0453
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		8/15/2022
WQ02- Conventional Parameters		
pH	**pH units**	7.97
Turbidity	**NTU**	0.3
Hardness, as CaCO3	**mg/L**	458
Total alkalinity, as CaCO3	**mg/L**	71
TDS	**mg/L**	1370
TDS, calculated	**mg/L**	1200
TSS	**mg/L**	3
WQ03- Major Ions		
Chloride	**mg/L**	520
Cyanide	**mg/L**	0.00070
Fluoride	**mg/L**	< 0.10
Silica	**mg/L**	0.15
Sulfate	**mg/L**	210
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	0.25
Nitrate (as N)	**mg/L**	4.28
Nitrite (as N)	**mg/L**	0.080
Total phosphorus	**mg/L**	0.044
Orthophosphate (P)	**mg/L**	0.026
WQ06- Total Metals		
Aluminum	**mg/L**	0.247
Arsenic	**mg/L**	0.0151
Barium	**mg/L**	0.0563
Cadmium	**mg/L**	0.000011
Chromium	**mg/L**	< 0.0010

Copper	**mg/L**	0.00291
Iron	**mg/L**	0.075
Lead	**mg/L**	0.00026
Manganese	**mg/L**	0.0596
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0070
Nickel	**mg/L**	0.0041
Selenium	**mg/L**	0.00034
Silver	**mg/L**	< 0.000020
Thallium	**mg/L**	0.000032
Zinc	**mg/L**	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	118
Magnesium (Dissolved)	**mg/L**	36.7
Potassium (Dissolved)	**mg/L**	19.8
Sodium (Dissolved)	**mg/L**	248

MEL-13		8/20/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.37
Turbidity	**NTU**	0.5
Specific conductivity	**umhos/cm**	110
Hardness, as CaCO3	**mg/L**	28.4
Total alkalinity, as CaCO3	**mg/L**	21
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	21
TDS	**mg/L**	65
TDS, calculated	**mg/L**	55
TSS	**mg/L**	1
Total organic carbon	**mg/L**	3.9
Dissolved organic carbon	**mg/L**	3.6
WQ03- Major Ions		
Chloride	**mg/L**	17
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	0.0031
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	0.42
Sulfate	**mg/L**	6.4
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**	0.24
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.00326
Antimony	**mg/L**	< 0.000020
Arsenic	**mg/L**	0.000614
Barium	**mg/L**	0.00826
Beryllium	**mg/L**	< 0.000010
Boron	**mg/L**	< 0.01
Cadmium	**mg/L**	< 0.0000050
Chromium	**mg/L**	< 0.00010
Cobalt	**mg/L**	0.0000262
Copper	**mg/L**	0.000914
Iron	**mg/L**	0.0283
Lead	**mg/L**	0.0000092
Lithium	**mg/L**	0.00109
Manganese	**mg/L**	0.00961
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.000125
Nickel	**mg/L**	0.000714
Selenium	**mg/L**	0.000042
Silver	**mg/L**	< 0.0000050
Strontium	**mg/L**	0.0572
Thallium	**mg/L**	< 0.0000020
Tin	**mg/L**	< 0.00020
Titanium	**mg/L**	< 0.00050
Uranium	**mg/L**	0.0000229
Vanadium	**mg/L**	< 0.00020
Zinc	**mg/L**	0.00057
WQ07- Dissolved Metals		
Aluminum	**mg/L**	0.00232
Antimony	**mg/L**	< 0.000020
Arsenic	**mg/L**	0.000567
Barium	**mg/L**	0.00810
Beryllium	**mg/L**	< 0.000010
Boron	**mg/L**	< 0.01
Cadmium	**mg/L**	< 0.0000050
Calcium (Dissolved)	**mg/L**	9.20
Chromium	**mg/L**	< 0.00010
Cobalt	**mg/L**	0.0000130
Copper	**mg/L**	0.000958

Iron	**mg/L**	0.0063
Lead	**mg/L**	0.0000063
Lithium	**mg/L**	0.00099
Magnesium (Dissolved)	**mg/L**	1.76
Manganese	**mg/L**	0.000267
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.000145
Nickel	**mg/L**	0.000737
Potassium (Dissolved)	**mg/L**	1.12
Selenium	**mg/L**	< 0.000040
Silver	**mg/L**	< 0.0000050
Sodium (Dissolved)	**mg/L**	7.09
Strontium	**mg/L**	0.0561
Thallium	**mg/L**	< 0.0000020
Tin	**mg/L**	< 0.00020
Titanium	**mg/L**	< 0.00050
Uranium	**mg/L**	0.0000197
Vanadium	**mg/L**	< 0.00020
Zinc	**mg/L**	0.00075
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**	< 0.1
F3 (C16-C34)	**mg/L**	< 0.2
F4 (C34-C50)	**mg/L**	< 0.2

MEL-14	MDMER MAX GRAB	MDMER MAX MONTHLY MEAN	2AM-MEL1631 MEL-14 MAX GRAB	2AM-MEL1631 MEL-14 MAX MEAN	Sample date	*Monthly Average (N)**	8/1/2022	8/29/2022
Parameter					**Unit**		-	-
WQ02- Conventional Parameters								
pH	9.5	9.5	9.5	9.5	**pH units**	*7.70*	7.62	7.77
Turbidity					**NTU**	*0.55*	0.6	0.5
Specific conductivity					**umhos/cm**	*2300*	2200	2400
Hardness, as CaCO3					**mg/L**	*432.5*	408	457
Total alkalinity, as CaCO3					**mg/L**	*65.5*	62	69
Carbonate, as CaCO3					**mg/L**	*0.5*	< 1.0	< 1.0
Bicarbonate, as CaCO3					**mg/L**	*65*	61	69
TDS			4500	3500	**mg/L**	*1340*	1270	1410
TDS, calculated			4500	3500	**mg/L**	*1250*	1200	1300
TSS	30	15	30	15	**mg/L**	*2*	2	2
Total organic carbon					**mg/L**	*8.95*	8.9	9.0
Dissolved organic carbon					**mg/L**	*8.65*	8.6	8.7
WQ03- Major Ions								
Chloride					**mg/L**	*540*	510	570
Cyanide	1	0.5	1	0.5	**mg/L**	*0.00115*	0.00108	0.00122
Cyanide (free)					**mg/L**	*0.0032*	0.0041	0.0023
Cyanide (WAD)					**mg/L**	*0.000815*	0.00095	0.00068
Silica					**mg/L**	*0.215*	0.27	0.16
Sulfate					**mg/L**	*205*	200	210
WQ04- Nutrients and Chlorophyll a								
Ammonia Nitrogen (as N)			18	14	**mg/L**	*0.1175*	0.21	< 0.050
Un-Ionized Ammonia, calculated	1	0.5			**mg/L**	*0.0006*	0.00099	< 0.00061
Nitrate (as N)					**mg/L**	*5*	6.37	3.63
Nitrite (as N)					**mg/L**	*0.1655*	0.285	0.046
Total Kjeldahl nitrogen					**mg/L**	*0.89*	1.1	0.68
Total phosphorus			4	2	**mg/L**	*0.027*	0.031	0.023
Orthophosphate (P)					**mg/L**	*0.005*	< 0.010	< 0.010
WQ06- Total Metals								
Aluminum			3	2	**mg/L**	*0.31400*	0.302	0.326
Antimony					**mg/L**	*0.00085*	0.00090	0.00079
Arsenic	0.6	0.3	0.6	0.3	**mg/L**	*0.00466*	0.00454	0.00478
Barium					**mg/L**	*0.05235*	0.0507	0.0540
Beryllium					**mg/L**	*0.00005*	< 0.00010	< 0.00010
Boron					**mg/L**	*0.28800*	0.275	0.301
Cadmium					**mg/L**	*0.00001*	0.000012	0.000011

Chromium					**mg/L**	*0.00050*	< 0.0010	< 0.0010
Cobalt					**mg/L**	*0.00078*	0.00096	0.00059
Copper	0.6	0.3	0.4	0.2	**mg/L**	*0.00257*	0.00264	0.00249
Iron					**mg/L**	*0.01150*	0.012	0.011
Lead	0.2	0.1	0.2	0.1	**mg/L**	*0.00010*	< 0.00020	< 0.00020
Lithium					**mg/L**	*0.03085*	0.0308	0.0309
Manganese					**mg/L**	*0.05450*	0.0919	0.0171
Mercury					**mg/L**	*0.00001*	< 0.00001	< 0.00001
Molybdenum					**mg/L**	*0.00620*	0.0059	0.0065
Nickel	1	0.5	1	0.5	**mg/L**	*0.00410*	0.0042	0.0040
Selenium					**mg/L**	*0.00033*	0.00040	0.00026
Silver					**mg/L**	*0.00001*	< 0.000020	< 0.000020
Strontium					**mg/L**	*1.51500*	1.40	1.63
Thallium					**mg/L**	*0.00003*	0.000025	0.000028
Tin					**mg/L**	*0.00250*	< 0.0050	< 0.0050
Titanium					**mg/L**	*0.00250*	< 0.0050	< 0.0050
Uranium					**mg/L**	*0.00132*	0.00123	0.00140
Vanadium					**mg/L**	*0.00250*	< 0.0050	< 0.0050
Zinc	1	0.5	0.8	0.4	**mg/L**	*0.00250*	< 0.0050	< 0.0050
WQ07- Dissolved Metals								
Aluminum			3	2	**mg/L**	*0.1300*	0.127	0.133
Antimony					**mg/L**	*0.0009*	0.00095	0.00082
Arsenic	0.6	0.3	0.6	0.3	**mg/L**	*0.0040*	0.00389	0.00406
Barium					**mg/L**	*0.0533*	0.0502	0.0563
Beryllium					**mg/L**	*0.0001*	< 0.00010	< 0.00010
Boron					**mg/L**	*0.3115*	0.282	0.341
Cadmium					**mg/L**	*0.0000*	0.000019	0.000015
Calcium (Dissolved)					**mg/L**	*119.5000*	110	129
Chromium					**mg/L**	*0.0005*	< 0.0010	< 0.0010
Cobalt					**mg/L**	*0.0008*	0.00099	0.00065
Copper	0.6	0.3	0.4	0.2	**mg/L**	*0.0027*	0.00268	0.00265
Iron					**mg/L**	*0.0072*	0.0066	0.0078
Lead	0.2	0.1	0.2	0.1	**mg/L**	*0.0001*	< 0.00020	< 0.00020
Lithium					**mg/L**	*0.0316*	0.0320	0.0311
Magnesium (Dissolved)					**mg/L**	*36.1000*	34.4	37.8
Manganese					**mg/L**	*0.0551*	0.0934	0.0167
Mercury					**mg/L**	*0.0000*	< 0.00001	< 0.00001
Molybdenum					**mg/L**	*0.0064*	0.0062	0.0066
Nickel	1	0.5	1	0.5	**mg/L**	*0.0043*	0.0044	0.0042
Potassium (Dissolved)					**mg/L**	*20.5000*	19.1	21.9
Selenium					**mg/L**	*0.0004*	0.00042	0.00030

Silver					**mg/L**	*0.0000*	< 0.000020	< 0.000020
Sodium (Dissolved)					**mg/L**	*244.0000*	222	266
Strontium					**mg/L**	*1.5700*	1.43	1.71
Thallium					**mg/L**	*0.0000*	0.000029	0.000027
Tin					**mg/L**	*0.0025*	< 0.0050	< 0.0050
Titanium					**mg/L**	*0.0025*	< 0.0050	< 0.0050
Uranium					**mg/L**	*0.0013*	0.00121	0.00134
Vanadium					**mg/L**	*0.0025*	< 0.0050	< 0.0050
Zinc	1	0.5	0.8	0.4	**mg/L**	*0.0025*	< 0.0050	< 0.0050
WQ08- Radionuclides								
Radium-226	1.11	0.37			**Bq/l**	*0.00675*	< 0.0050	0.011
WQ09- Toxicity								
Daphnia 48 h static acute test - LC50					**%**	-	>100	>100
Daphnia 48 h Static Acute Test - EC50					**%**	-	>100	>100
LC50 (96h) - Rainbow Trout					**%**	-	>100	>100
WQ10- Volatile Organics								
Benzene					**mg/L**	*0.00010*	< 0.00020	< 0.00020
Ethylbenzene					**mg/L**	*0.00010*	< 0.00020	< 0.00020
Toluene					**mg/L**	*0.00010*	< 0.00020	< 0.00020
Xylenes					**mg/L**	*0.00020*	< 0.00040	< 0.00040
m,p-Xylenes					**mg/L**	*0.00020*	< 0.00040	< 0.00040
o-Xylene					**mg/L**	*0.00010*	< 0.00020	< 0.00020
F1 (C6-C10)-BTEX					**mg/L**	*0.01250*	< 0.025	< 0.025
F1 (C6-C10)					**mg/L**	*0.01250*	< 0.025	< 0.025
F2 (C10-C16)					**mg/L**	*0.05000*	< 0.1	< 0.1
F3 (C16-C34)					**mg/L**	*0.10000*	< 0.2	< 0.2
F4 (C34-C50)					**mg/L**	*0.10000*	< 0.2	< 0.2

MEL-15		8/8/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.77
Turbidity	**NTU**	0.4
Specific conductivity	**umhos/cm**	130
Hardness, as CaCO3	**mg/L**	48.3
Total alkalinity, as CaCO3	**mg/L**	43
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	43
TDS	**mg/L**	90
TDS, calculated	**mg/L**	65
TSS	**mg/L**	2
Total organic carbon	**mg/L**	4.7
Dissolved organic carbon	**mg/L**	4.8
WQ03- Major Ions		
Chloride	**mg/L**	10
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	< 0.0020
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	1.0
Sulfate	**mg/L**	4.2
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	< 0.050
Nitrate (as N)	**mg/L**	< 0.10
Nitrite (as N)	**mg/L**	< 0.010
Total Kjeldahl nitrogen	**mg/L**	0.31
Total phosphorus	**mg/L**	0.035
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0049
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00169
Barium	**mg/L**	0.0107
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**	0.096
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020

Manganese	**mg/L**	0.0132
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**	0.0791
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**	0.00152
Barium	**mg/L**	0.0110
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	16.3
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00061
Iron	**mg/L**	0.0532
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Magnesium (Dissolved)	**mg/L**	1.88
Manganese	**mg/L**	0.0031
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	1.03
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	4.95
Strontium	**mg/L**	0.0819
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		8/9/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.77
Turbidity	**NTU**	0.5
Specific conductivity	**umhos/cm**	150
Hardness, as CaCO3	**mg/L**	52.9
Total alkalinity, as CaCO3	**mg/L**	38
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	37
TDS	**mg/L**	120
TDS, calculated	**mg/L**	73
TSS	**mg/L**	2
Total organic carbon	**mg/L**	5.1
Dissolved organic carbon	**mg/L**	4.9
WQ03- Major Ions		
Chloride	**mg/L**	19
Cyanide	**mg/L**	< 0.00050
Cyanide (free)	**mg/L**	< 0.0020
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	0.56
Sulfate	**mg/L**	4.5
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	0.075
Nitrate (as N)	**mg/L**	< 0.10
Nitrite (as N)	**mg/L**	< 0.010
Total Kjeldahl nitrogen	**mg/L**	0.26
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**	0.00619
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**	0.00116
Iron	**mg/L**	0.084
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Manganese	**mg/L**	0.0078

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**	0.0900
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**	0.00561
Barium	**mg/L**	0.0231
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	18.4
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00105
Iron	**mg/L**	0.0276
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	< 0.0020
Magnesium (Dissolved)	**mg/L**	2.38
Manganese	**mg/L**	0.0014
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	1.26
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	4.74
Strontium	**mg/L**	0.0929
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		8/9/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.92
Turbidity	**NTU**	0.8
Specific conductivity	**umhos/cm**	260
Hardness, as CaCO3	**mg/L**	98.2
Total alkalinity, as CaCO3	**mg/L**	69
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	69
TDS	**mg/L**	200
TDS, calculated	**mg/L**	130
TSS	**mg/L**	2
Total organic carbon	**mg/L**	9.8
Dissolved organic carbon	**mg/L**	9.2
WQ03- Major Ions		
Chloride	**mg/L**	33
Cyanide	**mg/L**	0.00052
Cyanide (free)	**mg/L**	0.0025
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	2.7
Sulfate	**mg/L**	6.8
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**	0.42
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0057
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00115
Barium	**mg/L**	0.0273
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00103
Iron	**mg/L**	0.217
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0041
Manganese	**mg/L**	0.0360

Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	0.0015
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Strontium	**mg/L**	0.232
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**	0.0032
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00109
Barium	**mg/L**	0.0278
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	32.4
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00095
Iron	**mg/L**	0.148
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0039
Magnesium (Dissolved)	**mg/L**	3.94
Manganese	**mg/L**	0.0262
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	0.0014
Potassium (Dissolved)	**mg/L**	2.39
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	9.97
Strontium	**mg/L**	0.258
Thallium	**mg/L**	< 0.000010
Tin	**mg/L**	< 0.0050
Titanium	**mg/L**	< 0.0050
Uranium	**mg/L**	< 0.00010
Vanadium	**mg/L**	< 0.0050
Zinc	**mg/L**	< 0.0050

MEL-18		8/8/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.86
Turbidity	**NTU**	0.5
Specific conductivity	**umhos/cm**	190
Hardness, as CaCO3	**mg/L**	73.3
Total alkalinity, as CaCO3	**mg/L**	45
Carbonate, as CaCO3	**mg/L**	< 1.0
Bicarbonate, as CaCO3	**mg/L**	45
TDS	**mg/L**	140
TDS, calculated	**mg/L**	95
TSS	**mg/L**	1
Total organic carbon	**mg/L**	4.8
Dissolved organic carbon	**mg/L**	4.7
WQ03- Major Ions		
Chloride	**mg/L**	25
Cyanide	**mg/L**	0.00092
Cyanide (free)	**mg/L**	< 0.0020
Cyanide (WAD)	**mg/L**	< 0.00050
Silica	**mg/L**	0.90
Sulfate	**mg/L**	7.7
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**	0.23
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0117
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00398
Barium	**mg/L**	0.0160
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00108
Iron	**mg/L**	0.094
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0098
Manganese	**mg/L**	0.0093
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**	0.179
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**	0.0035
Antimony	**mg/L**	< 0.00050
Arsenic	**mg/L**	0.00327
Barium	**mg/L**	0.0159
Beryllium	**mg/L**	< 0.00010
Boron	**mg/L**	< 0.050
Cadmium	**mg/L**	< 0.000010
Calcium (Dissolved)	**mg/L**	23.7
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00083
Iron	**mg/L**	0.0347
Lead	**mg/L**	< 0.00020
Lithium	**mg/L**	0.0083
Magnesium (Dissolved)	**mg/L**	2.96
Manganese	**mg/L**	0.0036
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	< 0.0010
Nickel	**mg/L**	< 0.0010
Potassium (Dissolved)	**mg/L**	1.26
Selenium	**mg/L**	< 0.00010
Silver	**mg/L**	< 0.000020
Sodium (Dissolved)	**mg/L**	6.35
Strontium	**mg/L**	0.190
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		8/8/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	8.07
Turbidity	**NTU**	1.2
Hardness, as CaCO3	**mg/L**	532
Total alkalinity, as CaCO3	**mg/L**	120
TDS	**mg/L**	1480
TDS, calculated	**mg/L**	1400
TSS	**mg/L**	2
WQ03- Major Ions		
Chloride	**mg/L**	460
Cyanide	**mg/L**	0.00187
Fluoride	**mg/L**	0.22
Silica	**mg/L**	5.6
Sulfate	**mg/L**	360
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	3.7
Nitrate (as N)	**mg/L**	8.41
Nitrite (as N)	**mg/L**	0.339
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	0.013
WQ06- Total Metals		
Aluminum	**mg/L**	0.0553
Arsenic	**mg/L**	0.0300
Barium	**mg/L**	0.0624
Cadmium	**mg/L**	0.000072
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00543
Iron	**mg/L**	0.054
Lead	**mg/L**	0.00034
Manganese	**mg/L**	0.0287
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0068
Nickel	**mg/L**	0.0302
Selenium	**mg/L**	0.00089
Silver	**mg/L**	< 0.000020
Thallium	**mg/L**	0.000034
Zinc	**mg/L**	< 0.0050
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	142
Magnesium (Dissolved)	**mg/L**	42.6
Potassium (Dissolved)	**mg/L**	25.5
Sodium (Dissolved)	**mg/L**	245

MEL-20		8/8/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.93
Turbidity	**NTU**	0.8
Hardness, as CaCO3	**mg/L**	1160
Total alkalinity, as CaCO3	**mg/L**	99
TDS	**mg/L**	3630
TDS, calculated	**mg/L**	3700
TSS	**mg/L**	3
WQ03- Major Ions		
Chloride	**mg/L**	1600
Cyanide	**mg/L**	0.00432
Fluoride	**mg/L**	0.23
Silica	**mg/L**	1.2
Sulfate	**mg/L**	600
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	15
Nitrate (as N)	**mg/L**	58.8
Nitrite (as N)	**mg/L**	2.15
Total phosphorus	**mg/L**	0.023
Orthophosphate (P)	**mg/L**	0.042
WQ06- Total Metals		
Aluminum	**mg/L**	0.034
Arsenic	**mg/L**	0.0781
Barium	**mg/L**	0.0942
Cadmium	**mg/L**	0.000303
Chromium	**mg/L**	< 0.0050
Copper	**mg/L**	0.0076
Iron	**mg/L**	0.051
Lead	**mg/L**	< 0.0010
Manganese	**mg/L**	0.405
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0092
Nickel	**mg/L**	0.0555
Selenium	**mg/L**	0.00335
Silver	**mg/L**	< 0.00010
Thallium	**mg/L**	< 0.000050
Zinc	**mg/L**	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	264
Magnesium (Dissolved)	**mg/L**	102
Potassium (Dissolved)	**mg/L**	43.8
Sodium (Dissolved)	**mg/L**	775

MEL-21		8/8/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	8.17
Turbidity	**NTU**	3.3
Hardness, as CaCO3	**mg/L**	431
Total alkalinity, as CaCO3	**mg/L**	120
TDS	**mg/L**	1030
TDS, calculated	**mg/L**	930
TSS	**mg/L**	10
WQ03- Major Ions		
Chloride	**mg/L**	320
Cyanide	**mg/L**	0.00319
Fluoride	**mg/L**	0.16
Silica	**mg/L**	2.8
Sulfate	**mg/L**	190
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	0.11
Nitrate (as N)	**mg/L**	2.79
Nitrite (as N)	**mg/L**	0.027
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.159
Arsenic	**mg/L**	0.0330
Barium	**mg/L**	0.0702
Cadmium	**mg/L**	0.000022
Chromium	**mg/L**	< 0.0010
Copper	**mg/L**	0.00449
Iron	**mg/L**	0.507
Lead	**mg/L**	0.00241
Manganese	**mg/L**	0.195
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0079
Nickel	**mg/L**	0.0152
Selenium	**mg/L**	0.00034
Silver	**mg/L**	0.000030
Thallium	**mg/L**	0.000014
Zinc	**mg/L**	0.0054
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	117
Magnesium (Dissolved)	**mg/L**	31.3
Potassium (Dissolved)	**mg/L**	13.1
Sodium (Dissolved)	**mg/L**	161

MEL-22		8/8/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.61
Turbidity	**NTU**	1.2
Hardness, as CaCO3	**mg/L**	2950
Total alkalinity, as CaCO3	**mg/L**	61
TDS	**mg/L**	6620
TDS, calculated	**mg/L**	5600
TSS	**mg/L**	6
WQ03- Major Ions		
Chloride	**mg/L**	3000
Cyanide	**mg/L**	0.00109
Fluoride	**mg/L**	0.13
Silica	**mg/L**	< 0.25
Sulfate	**mg/L**	710
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	0.25
Nitrate (as N)	**mg/L**	3.08
Nitrite (as N)	**mg/L**	0.022
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.020
Arsenic	**mg/L**	0.00540
Barium	**mg/L**	0.219
Cadmium	**mg/L**	< 0.000050
Chromium	**mg/L**	< 0.0050
Copper	**mg/L**	0.0062
Iron	**mg/L**	0.215
Lead	**mg/L**	< 0.0010
Manganese	**mg/L**	0.125
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0071
Nickel	**mg/L**	0.0321
Selenium	**mg/L**	< 0.00050
Silver	**mg/L**	< 0.00010
Thallium	**mg/L**	0.000094
Zinc	**mg/L**	< 0.025
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	714
Magnesium (Dissolved)	**mg/L**	162
Potassium (Dissolved)	**mg/L**	65.6
Sodium (Dissolved)	**mg/L**	896

MEL-23		8/8/2022
Parameter	**Unit**	
WQ02- Conventional Parameters		
pH	**pH units**	7.92
Turbidity	**NTU**	0.4
Hardness, as CaCO3	**mg/L**	788
Total alkalinity, as CaCO3	**mg/L**	130
TDS	**mg/L**	2600
TDS, calculated	**mg/L**	2700
TSS	**mg/L**	2
WQ03- Major Ions		
Chloride	**mg/L**	950
Cyanide	**mg/L**	0.00178
Fluoride	**mg/L**	0.27
Silica	**mg/L**	3.9
Sulfate	**mg/L**	710
WQ04- Nutrients and Chlorophyll a		
Ammonia Nitrogen (as N)	**mg/L**	6.2
Nitrate (as N)	**mg/L**	28.6
Nitrite (as N)	**mg/L**	0.680
Total phosphorus	**mg/L**	< 0.020
Orthophosphate (P)	**mg/L**	< 0.010
WQ06- Total Metals		
Aluminum	**mg/L**	0.0194
Arsenic	**mg/L**	0.00804
Barium	**mg/L**	0.0613
Cadmium	**mg/L**	0.000101
Chromium	**mg/L**	< 0.0020
Copper	**mg/L**	0.0056
Iron	**mg/L**	0.022
Lead	**mg/L**	0.00054
Manganese	**mg/L**	0.377
Mercury	**mg/L**	< 0.00001
Molybdenum	**mg/L**	0.0130
Nickel	**mg/L**	0.0869
Selenium	**mg/L**	0.00180
Silver	**mg/L**	< 0.000040
Thallium	**mg/L**	0.000024
Zinc	**mg/L**	< 0.010
WQ07- Dissolved Metals		
Calcium (Dissolved)	**mg/L**	178
Magnesium (Dissolved)	**mg/L**	88.2
Potassium (Dissolved)	**mg/L**	49.3
Sodium (Dissolved)	**mg/L**	528

MEL-SR1	MEL-SR MAX GRAB (WSEEP/RO)	MEL-SR MAX MEAN (WSEEP/RO)	Sample date Sample type	8/5/2022
Parameter			**Unit**	
WQ02- Conventional Parameters				
pH	9.5	9.5	**pH units**	8.19
Turbidity			**NTU**	0.6
Hardness, as CaCO3			**mg/L**	388
Total alkalinity, as CaCO3			**mg/L**	230
TDS			**mg/L**	700
TDS, calculated			**mg/L**	680
TSS	100	50	**mg/L**	1
WQ03- Major Ions				
Chloride			**mg/L**	170
Cyanide			**mg/L**	0.00130
Fluoride			**mg/L**	0.14
Silica			**mg/L**	4.5
Sulfate			**mg/L**	130
WQ04- Nutrients and Chlorophyll a				
Ammonia Nitrogen (as N)			**mg/L**	0.060
Nitrate (as N)			**mg/L**	0.12
Nitrite (as N)			**mg/L**	< 0.010
Total phosphorus			**mg/L**	0.023
Orthophosphate (P)			**mg/L**	< 0.010
WQ05- General Organics				
Total oil and grease			**mg/L**	0.70
WQ06- Total Metals				
Aluminum			**mg/L**	0.0221
Arsenic			**mg/L**	0.00334
Barium			**mg/L**	0.0601
Cadmium			**mg/L**	0.000012
Chromium			**mg/L**	< 0.0010
Copper			**mg/L**	0.00361
Iron			**mg/L**	0.101
Lead			**mg/L**	< 0.00020
Manganese			**mg/L**	0.0441
Mercury			**mg/L**	< 0.00001
Molybdenum			**mg/L**	0.0010
Nickel			**mg/L**	0.0145
Selenium			**mg/L**	< 0.00010
Silver			**mg/L**	< 0.000020
Thallium			**mg/L**	0.000014
Zinc			**mg/L**	0.0721
WQ07- Dissolved Metals				
Calcium (Dissolved)			**mg/L**	121
Magnesium (Dissolved)			**mg/L**	21.5
Potassium (Dissolved)			**mg/L**	10.5
Sodium (Dissolved)			**mg/L**	86.9