

MELIADINE GOLD PROJECT

MONTHLY ENVIRONMENTAL REPORT: AUGUST 2011

MELIADINE GOLD PROJECT
MONTHLY ENVIRONMENTAL REPORT

Executive summary

Environment

- The monthly report is delivered under water licence 2BB-MEL0914, PART J, items 13.
- Monthly monitoring program has been done on August 29th. Monitoring station MEL-3, MEL-3a, MEL-5 and MEL-6 were not sampled this month because no effluent was observed at those stations during the sampling period.
- MEL-7 monitoring station has been lost during transportation from Meliadine to Winnipeg.
- MEL-4 TSS parameter was inadvertently missed during the sampling.
- The detailed results of the enhanced Monthly Monitoring Programme (including results for monitoring station not subject to special attention under water licence 2BB-MEL0914, PART J, item 13) are available in APPENDIX 1: MONTHLY SAMPLING RESULTS.
- Item 3 is not all available for this month (GPS coordinates for location where sources of water are utilized). Mel-1: 541 934 E 6 989 173 N
- Item 5 is not applicable this month. There was no effluent at MEL-5 and MEL-6 stations.
- Item 6 is not applicable this month. There was no drilling activities on ice.
- Agnico-Eagle mandated Qikiqtaaluk Environmental, a consultant specialized in site assessment, remediation and waste management. They helped on housekeeping and to start the organization of the HAZMAT on site. They came on site from August 12 to August 19.

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1. WATER USAGE (ITEM 2)

Table 1. The consumption of fresh water for the site was 282.7 m³/day for the month of August 2011

	August
Camp (m ³ /day)	24.4
Drill (m ³ /day)	258.3
Total for the month (m³/day)	282.7

2. MONITORING STATIONS (ITEM 4)

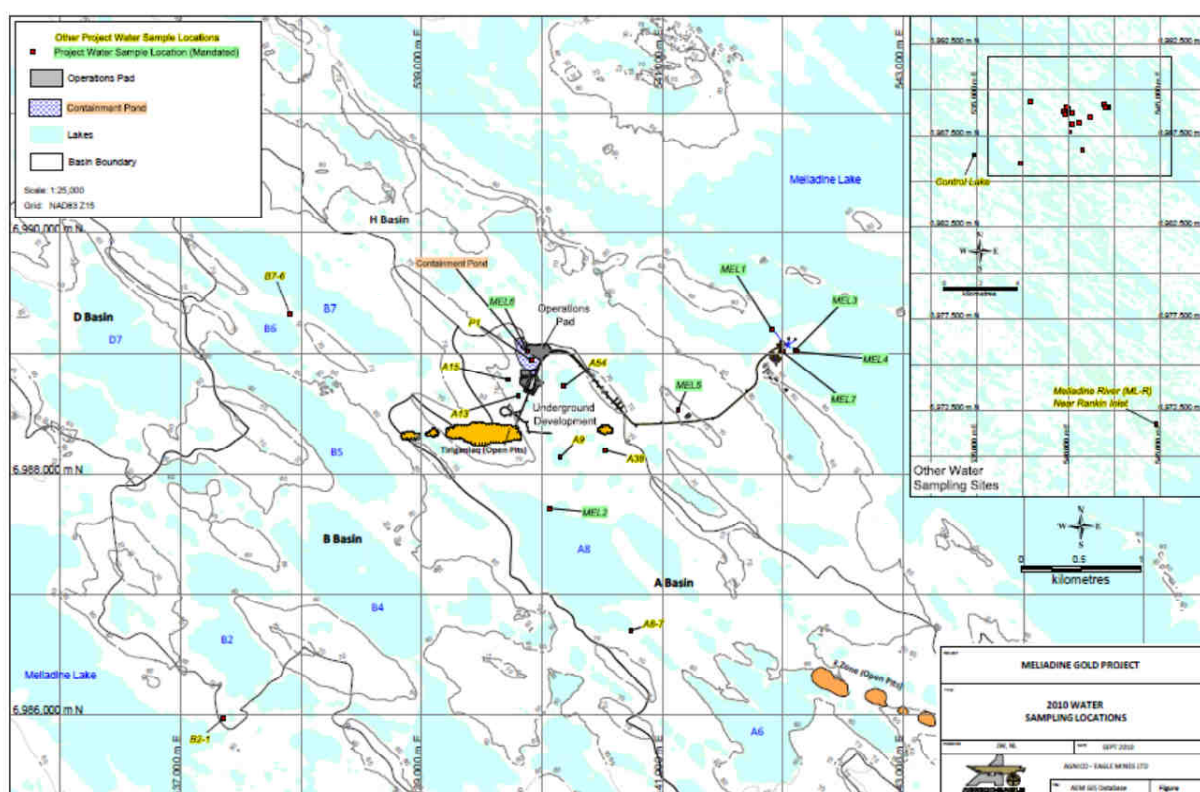
Table 2. Station MEL-4 lab results. The station has been sample on August 29th

	BOD-5	TSS	Oil and Grease	Faecal Coliforms	pH
MEL-4	1,9	NA	<1.0	210	8.33

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APPENDIX 1: MONTHLY SAMPLING RESULT



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A8-7					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb) Total	mg/L	0.00149
Ion balance	%	101	Selenium (Se) Total	mg/L	<0.0050
Mercury (Hg) total	mg/L	<0.000050	Silicon (Si) Total	mg/L	0.57
Phosphorus (P) total	mg/L	<0.010	Silver (Si) Total	mg/L	<0.0010
Phosphorus (P) total reactive	mg/L	<0.010	Sodium (Na) Total	mg/L	4.59
Total Kjeldahl Nitrogene	mg/L	0.38	Strontium (Sr) Total	mg/L	0.147
Calcium (Ca) Dissolved	mg/L	24.6	Tellurium (Te) Total	mg/L	<0.0010
Magnesium (Mg) Dissolved	mg/L	3.02	Thallium (TI) Total	mg/L	<0.0050
Potassium (K) Dissolved	mg/L	1.41	Thorium (Th) Total	mg/L	<0.0010
Sodium (Na) Dissolved	mg/L	4.95	Tin (Sn) Total	mg/L	<0.00060
Alkalinity Total (as CaCO3)	mg/L	36.6	Titanium (Ti) Total	mg/L	<0.0010
Alkalinity Bicarbonate (HCO3)	mg/L	44.7	Tungsten (W) Total	mg/L	<0.0020
Alkalinity Carbonate (CO3)	mg/L	<0.60	Uranium (U) Total	mg/L	<0.00050
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)	mg/L	<0.0020
Chloride	mg/L	32.1	Zinc (Zn) Total	mg/L	<0.020
Conductivity	umhos/cm	176	Zirconium (Zr) Total	mg/L	<0.0010
Fluoride	mg/L	0.10	Turbidity	NTU	0.54
Hardness (as CaCO3)	mg/L	68.8	pH	pH units	7.95
Nitrate-N	mg/L	<0.050			
Nitrate+Nitrite	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	3.48			
TDS (calculated)	mg/L	91.6			
Aluminum (Al) Total	mg/L	0.021			
Antimony (Sb) Total	mg/L	<0.0010			
Arsenic (As) Total	mg/L	0.0028			
Barium (Ba) Total	mg/L	0.0190			
Beryllium (Be) Total	mg/L	<0.0010			
Bismuth (Bi) Total	mg/L	<0.00050			
Boron (B) Total	mg/L	<0.030			
Cadmium (Cd) Total	mg/L	<0.00020			
Calcium (Ca) Total	mg/L	22.8			
Cesium (Cs) Total	mg/L	<0.00050			
Chromium (Cr) Total	mg/L	<0.0020			
Cobalt (Co) Total	mg/L	<0.00050			
Copper (Cu) Total	mg/L	<0.0020			
Iron (Fe) Total	mg/L	0.11			
Lead (Pb) Total	mg/L	<0.0010			
Lithium (Li) Total	mg/L	0.012			
Magnesium (Mg) Total	mg/L	2.87			
Manganese (Mn) Total	mg/L	0.0164			
Molybdenum (Mo)	mg/L	<0.00050			
Nickel (Ni) Total	mg/L	<0.0020			
Phosphorus (P) Total	mg/L	<0.50			
Potassium (K) Total	mg/L	1.25	28-Aug		

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B7-6					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb) Total	mg/L	0.00178
Ion balance	%	92.2	Selenium (Se) Total	mg/L	<0.0050
Mercury (Hg) total	mg/L	<0.000050	Silicon (Si) Total	mg/L	<0.30
Phosphorus (P) total	mg/L	0.013	Silver (Si) Total	mg/L	<0.0010
Phosphorus (P) total reactive	mg/L	<0.010	Sodium (Na) Total	mg/L	4.13
Total Kjeldahl Nitrogen	mg/L	0.57	Strontium (Sr) Total	mg/L	0.205
Calcium (Ca) Dissolved	mg/L	27.1	Tellurium (Te) Total	mg/L	<0.0010
Magnesium (Mg) Dissolved	mg/L	2.39	Thallium (Tl) Total	mg/L	<0.0050
Potassium (K) Dissolved	mg/L	1.48	Thorium (Th) Total	mg/L	<0.0010
Sodium (Na) Dissolved	mg/L	3.84	Tin (Sn) Total	mg/L	<0.00060
Alkalinity Total (as CaCO ₃)	mg/L	37.3	Titanium (Ti) Total	mg/L	0.0016
Alkalinity Bicarbonate (HCO ₃)	mg/L	45.5	Tungsten (W) Total	mg/L	<0.0020
Alkalinity Carbonate (CO ₃)	mg/L	<0.60	Uranium (U) Total	mg/L	<0.00050
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)	mg/L	<0.0020
Chloride	mg/L	38.3	Zinc (Zn) Total	mg/L	<0.020
Conductivity	umhos/cm	196	Zirconium (Zr) Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.72
Hardness (as CaCO ₃)	mg/L	83.5	pH	pH units	7.91
Nitrate-N	mg/L	<0.050			
Nitrate+Nitrite	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	2.93			
TDS (calculated)	mg/L	98.4			
Aluminum (Al) Total	mg/L	0.045			
Antimony (Sb) Total	mg/L	<0.0010			
Arsenic (As) Total	mg/L	0.0021			
Barium (Ba) Total	mg/L	0.0240			
Beryllium (Be) Total	mg/L	<0.0010			
Bismuth (Bi) Total	mg/L	<0.00050			
Boron (B) Total	mg/L	<0.030			
Cadmium (Cd) Total	mg/L	<0.00020			
Calcium (Ca) Total	mg/L	29			
Cesium (Cs) Total	mg/L	<0.00050			
Chromium (Cr) Total	mg/L	<0.0020			
Cobalt (Co) Total	mg/L	<0.00050			
Copper (Cu) Total	mg/L	<0.0020			
Iron (Fe) Total	mg/L	0.26			
Lead (Pb) Total	mg/L	<0.0010			
Lithium (Li) Total	mg/L	0.0187			
Magnesium (Mg) Total	mg/L	2.69			
Manganese (Mn) Total	mg/L	0.0178			
Molybdenum (Mo)	mg/L	<0.00050			
Nickel (Ni) Total	mg/L	<0.0020			
Phosphorus (P) Total	mg/L	<0.50			
Potassium (K) Total	mg/L	1.71	28-Aug		

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B2-1					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb) Total	mg/L	0.00126
Ion balance	%	103	Selenium (Se) Total	mg/L	<0.0050
Mercury (Hg) total	mg/L	<0.000050	Silicon (Si) Total	mg/L	0.40
Phosphorus (P) total	mg/L	0.017	Silver (Si) Total	mg/L	<0.0010
Phosphorus (P) total reactive	mg/L	<0.010	Sodium (Na) Total	mg/L	4.12
Total Kjeldahl Nitrogen	mg/L	0.21	Strontium (Sr) Total	mg/L	0.0627
Calcium (Ca) Dissolved	mg/L	14.2	Tellurium (Te) Total	mg/L	<0.0010
Magnesium (Mg) Dissolved	mg/L	1.54	Thallium (Tl) Total	mg/L	<0.0050
Potassium (K) Dissolved	mg/L	1.11	Thorium (Th) Total	mg/L	<0.0010
Sodium (Na) Dissolved	mg/L	4.14	Tin (Sn) Total	mg/L	<0.00060
Alkalinity Total (as CaCO ₃)	mg/L	33.3	Titanium (Ti) Total	mg/L	0.0013
Alkalinity Bicarbonate (HCO ₃)	mg/L	40.7	Tungsten (W) Total	mg/L	<0.0020
Alkalinity Carbonate (CO ₃)	mg/L	<0.60	Uranium (U) Total	mg/L	<0.00050
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)	mg/L	<0.0020
Chloride	mg/L	9.92	Zinc (Zn) Total	mg/L	<0.020
Conductivity	umhos/cm	105	Zirconium (Zr) Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	1.94
Hardness (as CaCO ₃)	mg/L	40.6	pH	pH units	7.7
Nitrate-N	mg/L	<0.050			
Nitrate+Nitrite	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	3.18			
TDS (calculated)	mg/L	54.0			
Aluminum (Al) Total	mg/L	0.044			
Antimony (Sb) Total	mg/L	<0.0010			
Arsenic (As) Total	mg/L	0.002			
Barium (Ba) Total	mg/L	0.0136			
Beryllium (Be) Total	mg/L	<0.0010			
Bismuth (Bi) Total	mg/L	<0.00050			
Boron (B) Total	mg/L	<0.030			
Cadmium (Cd) Total	mg/L	<0.00020			
Calcium (Ca) Total	mg/L	13.8			
Cesium (Cs) Total	mg/L	<0.00050			
Chromium (Cr) Total	mg/L	<0.0020			
Cobalt (Co) Total	mg/L	<0.00050			
Copper (Cu) Total	mg/L	<0.0020			
Iron (Fe) Total	mg/L	0.48			
Lead (Pb) Total	mg/L	<0.0010			
Lithium (Li) Total	mg/L	0.0051			
Magnesium (Mg) Total	mg/L	1.52			
Manganese (Mn) Total	mg/L	0.0604			
Molybdenum (Mo)	mg/L	<0.00050			
Nickel (Ni) Total	mg/L	<0.0020			
Phosphorus (P) Total	mg/L	<0.50			
Potassium (K) Total	mg/L	1.10	28-Aug		

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Meliadine River					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb) Total	mg/L	0.00157
Ion balance	%	Low EC	Selenium (Se) Total	mg/L	<0.0050
Mercury (Hg) total	mg/L	<0.000050	Silicon (Si) Total	mg/L	<0.30
Phosphorus (P) total	mg/L	<0.010	Silver (Si) Total	mg/L	<0.0010
Phosphorus (P) total reactive	mg/L	<0.010	Sodium (Na) Total	mg/L	6.41
Total Kjeldahl Nitrogene	mg/L	<0.20	Strontium (Sr) Total	mg/L	0.037
Calcium (Ca) Dissolved	mg/L	9.2	Tellurium (Te) Total	mg/L	<0.0010
Magnesium (Mg) Dissolved	mg/L	1.46	Thallium (Tl) Total	mg/L	<0.0050
Potassium (K) Dissolved	mg/L	1.32	Thorium (Th) Total	mg/L	<0.0010
Sodium (Na) Dissolved	mg/L	7.26	Tin (Sn) Total	mg/L	<0.00060
Alkalinity Total (as CaCO ₃)	mg/L	22.7	Titanium (Ti) Total	mg/L	0.001
Alkalinity Bicarbonate (HCO ₃)	mg/L	27.7	Tungsten (W) Total	mg/L	<0.0020
Alkalinity Carbonate (CO ₃)	mg/L	<0.60	Uranium (U) Total	mg/L	<0.00050
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)	mg/L	<0.0020
Chloride	mg/L	11.9	Zinc (Zn) Total	mg/L	<0.020
Conductivity	umhos/cm	94.3	Zirconium (Zr) Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.37
Hardness (as CaCO ₃)	mg/L	26.6	pH	pH units	7.75
Nitrate-N	mg/L	<0.050			
Nitrate+Nitrite	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	3.57			
TDS (calculated)	mg/L	48.3			
Aluminum (Al) Total	mg/L	0.034			
Antimony (Sb) Total	mg/L	<0.0010			
Arsenic (As) Total	mg/L	<0.0010			
Barium (Ba) Total	mg/L	0.0089			
Beryllium (Be) Total	mg/L	<0.0010			
Bismuth (Bi) Total	mg/L	<0.00050			
Boron (B) Total	mg/L	<0.030			
Cadmium (Cd) Total	mg/L	<0.00020			
Calcium (Ca) Total	mg/L	8.48			
Cesium (Cs) Total	mg/L	<0.00050			
Chromium (Cr) Total	mg/L	<0.0020			
Cobalt (Co) Total	mg/L	<0.00050			
Copper (Cu) Total	mg/L	<0.0020			
Iron (Fe) Total	mg/L	<0.10			
Lead (Pb) Total	mg/L	<0.0010			
Lithium (Li) Total	mg/L	0.005			
Magnesium (Mg) Total	mg/L	1.32			
Manganese (Mn) Total	mg/L	0.0037			
Molybdenum (Mo)	mg/L	<0.00050			
Nickel (Ni) Total	mg/L	<0.0020			
Phosphorus (P) Total	mg/L	<0.50			
Potassium (K) Total	mg/L	1.15	28-Aug		

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Control Lake					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb) Total	mg/L	0.00115
Ion balance	%	Low EC	Selenium (Se) Total	mg/L	<0.0050
Mercury (Hg) total	mg/L	<0.000050	Silicon (Si) Total	mg/L	<0.30
Phosphorus (P) total	mg/L	<0.010	Silver (Si) Total	mg/L	<0.0010
Phosphorus (P) total reactive	mg/L	<0.010	Sodium (Na) Total	mg/L	4.91
Total Kjeldahl Nitrogene	mg/L	0.4	Strontium (Sr) Total	mg/L	0.0304
Calcium (Ca) Dissolved	mg/L	10.0	Tellurium (Te) Total	mg/L	<0.0010
Magnesium (Mg) Dissolved	mg/L	1.12	Thallium (Tl) Total	mg/L	<0.0050
Potassium (K) Dissolved	mg/L	1.25	Thorium (Th) Total	mg/L	<0.0010
Sodium (Na) Dissolved	mg/L	4.97	Tin (Sn) Total	mg/L	<0.00060
Alkalinity Total (as CaCO ₃)	mg/L	27.2	Titanium (Ti) Total	mg/L	<0.0010
Alkalinity Bicarbonate (HCO ₃)	mg/L	33.2	Tungsten (W) Total	mg/L	<0.0020
Alkalinity Carbonate (CO ₃)	mg/L	<0.60	Uranium (U) Total	mg/L	<0.00050
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)	mg/L	<0.0020
Chloride	mg/L	8.5	Zinc (Zn) Total	mg/L	<0.020
Conductivity	umhos/cm	85.2	Zirconium (Zr) Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.63
Hardness (as CaCO ₃)	mg/L	28.8	pH	pH units	7.79
Nitrate-N	mg/L	<0.050			
Nitrate+Nitrite	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	1.96			
TDS (calculated)	mg/L	44.2			
Aluminum (Al) Total	mg/L	0.026			
Antimony (Sb) Total	mg/L	<0.0010			
Arsenic (As) Total	mg/L	<0.0010			
Barium (Ba) Total	mg/L	0.0076			
Beryllium (Be) Total	mg/L	<0.0010			
Bismuth (Bi) Total	mg/L	<0.00050			
Boron (B) Total	mg/L	<0.030			
Cadmium (Cd) Total	mg/L	<0.00020			
Calcium (Ca) Total	mg/L	9.74			
Cesium (Cs) Total	mg/L	<0.00050			
Chromium (Cr) Total	mg/L	<0.0020			
Cobalt (Co) Total	mg/L	<0.00050			
Copper (Cu) Total	mg/L	<0.0020			
Iron (Fe) Total	mg/L	<0.10			
Lead (Pb) Total	mg/L	<0.0010			
Lithium (Li) Total	mg/L	0.006			
Magnesium (Mg) Total	mg/L	1.08			
Manganese (Mn) Total	mg/L	0.0103			
Molybdenum (Mo)	mg/L	<0.00050			
Nickel (Ni) Total	mg/L	<0.0020			
Phosphorus (P) Total	mg/L	<0.50			
Potassium (K) Total	mg/L	1.21	28-Aug		

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MEL-1					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Nickel (Ni)-Total	mg/L	<0.0020
Biochemical Oxygen Demand	mg/L	<1.0	Phosphorus (P)-Total	mg/L	<0.50
Fecal Coliforms	MPN/100m	<3	Potassium (K)-Total	mg/L	0.80
Ion Balance	%	Low EC	Rubidium (Rb)-Total	mg/L	0.00114
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Oil & Grease-(IR)	mg/L	<1.0	Silicon (Si)-Total	mg/L	<0.30
Phosphorus (P)-Total	mg/L	<0.010	Silver (Ag)-Total	mg/L	<0.0010
Phosphorus (P)-Total Reactive	mg/L	<0.010	Sodium (Na)-Total	mg/L	3.95
Total Kjeldahl Nitrogen	mg/L	0.2	Strontium (Sr)-Total	mg/L	0.0274
Calcium (Ca)-Dissolved	mg/L	7.51	Tellurium (Te)-Total	mg/L	<0.0010
Magnesium (Mg)-Dissolved	mg/L	1.12	Thallium (Tl)-Total	mg/L	<0.0050
Potassium (K)-Dissolved	mg/L	0.96	Thorium (Th)-Total	mg/L	<0.0010
Sodium (Na)-Dissolved	mg/L	4.75	Tin (Sn)-Total	mg/L	<0.00060
Alkalinity Total (as CaCO ₃)	mg/L	18.4	Titanium (Ti)-Total	mg/L	<0.0010
Alkalinity Bicarbonate (HCO ₃)	mg/L	22.4	Tungsten (W)-Total	mg/L	<0.0020
Alkalinity Carbonate (CO ₃)	mg/L	<0.60	Uranium (U)-Total	mg/L	<0.00050
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	8.41	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	70	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.32
Hardness (as CaCO ₃)	mg/L	28.5	pH	pH units	7.54
Nitrate-N	mg/L	<0.050			
Nitrate+Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	3.26			
TDS (calculated)	mg/L	37			
Aluminum (Al)-Total	mg/L	0.0540			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	<0.0010			
Barium (Ba)-Total	mg/L	0.00577			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	<0.030			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	9.36			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	<0.00050			
Copper (Cu)-Total	mg/L	0.0026			
Iron (Fe)-Total	mg/L	0.28			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	0.0061			
Magnesium (Mg)-Total	mg/L	1.25			
Manganese (Mn)-Total	mg/L	0.0063			
Molybdenum (Mo)-Total	mg/L	<0.00050	29-Aug		

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MEL-4					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Nickel (Ni)-Total	mg/L	<0.0020
Biochemical Oxygen Demand	mg/L	1.9	Phosphorus (P)-Total	mg/L	<0.50
Fecal Coliforms	MPN/100m	210	Potassium (K)-Total	mg/L	0.93
Ion Balance	%	Low EC	Rubidium (Rb)-Total	mg/L	0.00133
Mercury (Hg)-Total	mg/L	<0.000050	Selenium (Se)-Total	mg/L	<0.0050
Oil & Grease-(IR)	mg/L	<1.0	Silicon (Si)-Total	mg/L	0.47
Phosphorus (P)-Total	mg/L	0.0	Silver (Ag)-Total	mg/L	<0.0010
Phosphorus (P)-Total Reactive	mg/L	<0.010	Sodium (Na)-Total	mg/L	8.51
Total Kjeldahl Nitrogen	mg/L	0.31	Strontium (Sr)-Total	mg/L	0.0552
Calcium (Ca)-Dissolved	mg/L	8.08	Tellurium (Te)-Total	mg/L	<0.0010
Magnesium (Mg)-Dissolved	mg/L	1.22	Thallium (Tl)-Total	mg/L	<0.0050
Potassium (K)-Dissolved	mg/L	0.90	Thorium (Th)-Total	mg/L	<0.0010
Sodium (Na)-Dissolved	mg/L	6.05	Tin (Sn)-Total	mg/L	<0.00060
Alkalinity Total (as CaCO ₃)	mg/L	23	Titanium (Ti)-Total	mg/L	<0.0010
Alkalinity Bicarbonate (HCO ₃)	mg/L	27	Tungsten (W)-Total	mg/L	<0.0020
Alkalinity Carbonate (CO ₃)	mg/L	<0.60	Uranium (U)-Total	mg/L	<0.00050
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)-Total	mg/L	<0.0020
Chloride	mg/L	10.3	Zinc (Zn)-Total	mg/L	<0.020
Conductivity	umhos/cm	84.8	Zirconium (Zr)-Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.53
Hardness (as CaCO ₃)	mg/L	33.9	pH	pH units	8.33
Nitrate-N	mg/L	<0.050			
Nitrate+Nitrite as N	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	3.37			
TDS (calculated)	mg/L	43.7			
Aluminum (Al)-Total	mg/L	0.0240			
Antimony (Sb)-Total	mg/L	<0.0010			
Arsenic (As)-Total	mg/L	<0.0010			
Barium (Ba)-Total	mg/L	0.0103			
Beryllium (Be)-Total	mg/L	<0.0010			
Bismuth (Bi)-Total	mg/L	<0.00050			
Boron (B)-Total	mg/L	0.041			
Cadmium (Cd)-Total	mg/L	<0.00020			
Calcium (Ca)-Total	mg/L	11.2			
Cesium (Cs)-Total	mg/L	<0.00050			
Chromium (Cr)-Total	mg/L	<0.0020			
Cobalt (Co)-Total	mg/L	0.00055			
Copper (Cu)-Total	mg/L	<0.0020			
Iron (Fe)-Total	mg/L	<0.10			
Lead (Pb)-Total	mg/L	<0.0010			
Lithium (Li)-Total	mg/L	<0.0020			
Magnesium (Mg)-Total	mg/L	1.45			
Manganese (Mn)-Total	mg/L	0.0319			
Molybdenum (Mo)-Total	mg/L	<0.00050	29-Aug		

MELIADINE GOLD PROJECT
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P-1					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb) Total	mg/L	0.00394
Ion balance	%	101	Selenium (Se) Total	mg/L	<0.0050
Mercury (Hg) total	mg/L	<0.000050	Silicon (Si) Total	mg/L	<0.30
Phosphorus (P) total	mg/L	<0.010	Silver (Si) Total	mg/L	<0.0010
Phosphorus (P) total reactive	mg/L	<0.010	Sodium (Na) Total	mg/L	17.5
Total Kjeldahl Nitrogene	mg/L	1.27	Strontium (Sr) Total	mg/L	0.49
Calcium (Ca) Dissolved	mg/L	72.6	Tellurium (Te) Total	mg/L	<0.0010
Magnesium (Mg) Dissolved	mg/L	11.1	Thallium (TI) Total	mg/L	<0.0050
Potassium (K) Dissolved	mg/L	4.95	Thorium (Th) Total	mg/L	<0.0010
Sodium (Na) Dissolved	mg/L	17.9	Tin (Sn) Total	mg/L	<0.00060
Alkalinity Total (as CaCO3)	mg/L	128	Titanium (Ti) Total	mg/L	<0.0010
Alkalinity Bicarbonate (HCO3)	mg/L	156	Tungsten (W) Total	mg/L	<0.0020
Alkalinity Carbonate (CO3)	mg/L	<0.60	Uranium (U) Total	mg/L	0.00054
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)	mg/L	<0.0020
Chloride	mg/L	96.3	Zinc (Zn) Total	mg/L	<0.020
Conductivity	umhos/cm	525	Zirconium (Zr) Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	1.92
Hardness (as CaCO3)	mg/L	221	pH	pH units	8.28
Nitrate-N	mg/L	<0.050			
Nitrate+Nitrite	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	4.86			
TDS (calculated)	mg/L	284.0			
Aluminum (Al) Total	mg/L	0.021			
Antimony (Sb) Total	mg/L	<0.0010			
Arsenic (As) Total	mg/L	0.0041			
Barium (Ba) Total	mg/L	0.0531			
Beryllium (Be) Total	mg/L	<0.0010			
Bismuth (Bi) Total	mg/L	<0.00050			
Boron (B) Total	mg/L	<0.030			
Cadmium (Cd) Total	mg/L	<0.00020			
Calcium (Ca) Total	mg/L	70.8			
Cesium (Cs) Total	mg/L	<0.00050			
Chromium (Cr) Total	mg/L	<0.0020			
Cobalt (Co) Total	mg/L	<0.00050			
Copper (Cu) Total	mg/L	0.0023			
Iron (Fe) Total	mg/L	0.3			
Lead (Pb) Total	mg/L	<0.0010			
Lithium (Li) Total	mg/L	0.0046			
Magnesium (Mg) Total	mg/L	10.7			
Manganese (Mn) Total	mg/L	0.0159			
Molybdenum (Mo)	mg/L	0.00079			
Nickel (Ni) Total	mg/L	0.003			
Phosphorus (P) Total	mg/L	<0.50			
Potassium (K) Total	mg/L	4.99	29-Aug		

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A-15					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb) Total	mg/L	0.0167
Ion balance	%	97.2	Selenium (Se) Total	mg/L	<0.0050
Mercury (Hg) total	mg/L	<0.000050	Silicon (Si) Total	mg/L	0.73
Phosphorus (P) total	mg/L	0.012	Silver (Si) Total	mg/L	<0.0010
Phosphorus (P) total reactive	mg/L	<0.010	Sodium (Na) Total	mg/L	63.8
Total Kjeldahl Nitrogene	mg/L	1.06	Strontium (Sr) Total	mg/L	4.18
Calcium (Ca) Dissolved	mg/L	577.0	Tellurium (Te) Total	mg/L	<0.0010
Magnesium (Mg) Dissolved	mg/L	48.3	Thallium (TI) Total	mg/L	<0.0050
Potassium (K) Dissolved	mg/L	20.9	Thorium (Th) Total	mg/L	<0.0010
Sodium (Na) Dissolved	mg/L	77.3	Tin (Sn) Total	mg/L	<0.00060
Alkalinity Total (as CaCO3)	mg/L	12.6	Titanium (Ti) Total	mg/L	0.0013
Alkalinity Bicarbonate (HCO3)	mg/L	15.4	Tungsten (W) Total	mg/L	<0.0020
Alkalinity Carbonate (CO3)	mg/L	<0.60	Uranium (U) Total	mg/L	<0.00050
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)	mg/L	<0.0020
Chloride	mg/L	1250	Zinc (Zn) Total	mg/L	<0.020
Conductivity	umhos/cm	3230	Zirconium (Zr) Total	mg/L	<0.0010
Fluoride	mg/L	<0.50	Turbidity	NTU	10.1
Hardness (as CaCO3)	mg/L	1400	pH	pH units	7.18
Nitrate-N	mg/L	<0.25			
Nitrate+Nitrite	mg/L	<0.35			
Nitrite-N	mg/L	<0.25			
Sulfate	mg/L	106			
TDS (calculated)	mg/L	2090.0			
Aluminum (Al) Total	mg/L	0.032			
Antimony (Sb) Total	mg/L	<0.0010			
Arsenic (As) Total	mg/L	0.0036			
Barium (Ba) Total	mg/L	0.4030			
Beryllium (Be) Total	mg/L	<0.0010			
Bismuth (Bi) Total	mg/L	<0.00050			
Boron (B) Total	mg/L	<0.030			
Cadmium (Cd) Total	mg/L	<0.00020			
Calcium (Ca) Total	mg/L	494			
Cesium (Cs) Total	mg/L	<0.00050			
Chromium (Cr) Total	mg/L	<0.0020			
Cobalt (Co) Total	mg/L	<0.00050			
Copper (Cu) Total	mg/L	0.0026			
Iron (Fe) Total	mg/L	0.77			
Lead (Pb) Total	mg/L	<0.0010			
Lithium (Li) Total	mg/L	0.258			
Magnesium (Mg) Total	mg/L	41.1			
Manganese (Mn) Total	mg/L	0.0525			
Molybdenum (Mo)	mg/L	<0.00050			
Nickel (Ni) Total	mg/L	0.0045			
Phosphorus (P) Total	mg/L	<0.50			
Potassium (K) Total	mg/L	17.40	29-Aug		

MELIADINE GOLD PROJECT
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A-13					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb) Total	mg/L	0.00938
Ion balance	%	92.6	Selenium (Se) Total	mg/L	<0.0050
Mercury (Hg) total	mg/L	<0.000050	Silicon (Si) Total	mg/L	2.94
Phosphorus (P) total	mg/L	0.011	Silver (Si) Total	mg/L	<0.0010
Phosphorus (P) total reactive	mg/L	<0.010	Sodium (Na) Total	mg/L	33.3
Total Kjeldahl Nitrogene	mg/L	1.07	Strontium (Sr) Total	mg/L	2.32
Calcium (Ca) Dissolved	mg/L	390.0	Tellurium (Te) Total	mg/L	<0.0010
Magnesium (Mg) Dissolved	mg/L	46.5	Thallium (Tl) Total	mg/L	<0.0050
Potassium (K) Dissolved	mg/L	11.1	Thorium (Th) Total	mg/L	<0.0010
Sodium (Na) Dissolved	mg/L	36.7	Tin (Sn) Total	mg/L	<0.00060
Alkalinity Total (as CaCO ₃)	mg/L	96	Titanium (Ti) Total	mg/L	0.0017
Alkalinity Bicarbonate (HCO ₃)	mg/L	117	Tungsten (W) Total	mg/L	<0.0020
Alkalinity Carbonate (CO ₃)	mg/L	<0.60	Uranium (U) Total	mg/L	<0.00050
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)	mg/L	<0.0020
Chloride	mg/L	877	Zinc (Zn) Total	mg/L	<0.020
Conductivity	umhos/cm	2450	Zirconium (Zr) Total	mg/L	<0.0010
Fluoride	mg/L	<0.50	Turbidity	NTU	1.45
Hardness (as CaCO ₃)	mg/L	1070	pH	pH units	7.80
Nitrate-N	mg/L	<0.25			
Nitrate+Nitrite	mg/L	<0.35			
Nitrite-N	mg/L	<0.25			
Sulfate	mg/L	25.4			
TDS (calculated)	mg/L	1440.0			
Aluminum (Al) Total	mg/L	0.021			
Antimony (Sb) Total	mg/L	<0.0010			
Arsenic (As) Total	mg/L	0.0039			
Barium (Ba) Total	mg/L	0.3210			
Beryllium (Be) Total	mg/L	<0.0010			
Bismuth (Bi) Total	mg/L	<0.00050			
Boron (B) Total	mg/L	<0.030			
Cadmium (Cd) Total	mg/L	<0.00020			
Calcium (Ca) Total	mg/L	359			
Cesium (Cs) Total	mg/L	<0.00050			
Chromium (Cr) Total	mg/L	<0.0020			
Cobalt (Co) Total	mg/L	<0.00050			
Copper (Cu) Total	mg/L	<0.0020			
Iron (Fe) Total	mg/L	<0.10			
Lead (Pb) Total	mg/L	<0.0010			
Lithium (Li) Total	mg/L	0.182			
Magnesium (Mg) Total	mg/L	43.3			
Manganese (Mn) Total	mg/L	0.0123			
Molybdenum (Mo)	mg/L	<0.00050			
Nickel (Ni) Total	mg/L	0.0029			
Phosphorus (P) Total	mg/L	<0.50			
Potassium (K) Total	mg/L	10.40	29-Aug		

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A-54					
Parameters	Units	Results	Parameters	Units	Results
Ammonia as N	mg/L	<0.050	Rubidium (Rb) Total	mg/L	0.00616
Ion balance	%	99.7	Selenium (Se) Total	mg/L	<0.0050
Mercury (Hg) total	mg/L	<0.000050	Silicon (Si) Total	mg/L	0.40
Phosphorus (P) total	mg/L	0.011	Silver (Si) Total	mg/L	<0.0010
Phosphorus (P) total reactive	mg/L	<0.010	Sodium (Na) Total	mg/L	57.9
Total Kjeldahl Nitrogene	mg/L	1.19	Strontium (Sr) Total	mg/L	0.876
Calcium (Ca) Dissolved	mg/L	105.0	Tellurium (Te) Total	mg/L	<0.0010
Magnesium (Mg) Dissolved	mg/L	24.7	Thallium (Tl) Total	mg/L	<0.0050
Potassium (K) Dissolved	mg/L	11.2	Thorium (Th) Total	mg/L	<0.0010
Sodium (Na) Dissolved	mg/L	70.6	Tin (Sn) Total	mg/L	<0.00060
Alkalinity Total (as CaCO3)	mg/L	48.8	Titanium (Ti) Total	mg/L	<0.0010
Alkalinity Bicarbonate (HCO3)	mg/L	59.5	Tungsten (W) Total	mg/L	<0.0020
Alkalinity Carbonate (CO3)	mg/L	<0.60	Uranium (U) Total	mg/L	<0.00050
Alkalinity Hydroxide (OH)	mg/L	<0.40	Vanadium (V)	mg/L	<0.0020
Chloride	mg/L	305	Zinc (Zn) Total	mg/L	<0.020
Conductivity	umhos/cm	1070	Zirconium (Zr) Total	mg/L	<0.0010
Fluoride	mg/L	<0.10	Turbidity	NTU	0.83
Hardness (as CaCO3)	mg/L	307	pH	pH units	7.99
Nitrate-N	mg/L	<0.050			
Nitrate+Nitrite	mg/L	<0.071			
Nitrite-N	mg/L	<0.050			
Sulfate	mg/L	52.2			
TDS (calculated)	mg/L	599.0			
Aluminum (Al) Total	mg/L	<0.020			
Antimony (Sb) Total	mg/L	<0.0010			
Arsenic (As) Total	mg/L	0.0025			
Barium (Ba) Total	mg/L	0.0659			
Beryllium (Be) Total	mg/L	<0.0010			
Bismuth (Bi) Total	mg/L	<0.00050			
Boron (B) Total	mg/L	<0.030			
Cadmium (Cd) Total	mg/L	<0.00020			
Calcium (Ca) Total	mg/L	106			
Cesium (Cs) Total	mg/L	<0.00050			
Chromium (Cr) Total	mg/L	<0.0020			
Cobalt (Co) Total	mg/L	<0.00050			
Copper (Cu) Total	mg/L	<0.0020			
Iron (Fe) Total	mg/L	<0.10			
Lead (Pb) Total	mg/L	<0.0010			
Lithium (Li) Total	mg/L	0.0263			
Magnesium (Mg) Total	mg/L	20.8			
Manganese (Mn) Total	mg/L	0.0119			
Molybdenum (Mo)	mg/L	0.00053			
Nickel (Ni) Total	mg/L	<0.0020			
Phosphorus (P) Total	mg/L	<0.50			
Potassium (K) Total	mg/L	9.28	29-Aug		