



AGNICO EAGLE
MELIADINE

Follow Up Report: # 21-398

September 9, 2021 – MEL-SR1 Surface Water Runoff

The following information refers to an incident reported by Agnico Eagle Mines Ltd. on September 10, 2021, and is being provided in accordance with:

- the Nunavut Water Board License 2AM-MEL1631 Water License, Part H, item 8c
- the Government of Nunavut's, Environmental Protection Act subsection 5.1(a)
- the Fisheries Act subsection 38(5).

Description of Incident:

While conducting a routine inspection on August 12th, 2021, surface runoff water was observed at sampling station MEL-SR1 located on the south side of the Itivia site. Heavy rainfall resulted in an increased flow from the hamlet of Rankin Inlet through the Itivia site. Samples were collected at MEL-SR1 and analyzed for Total Suspended Solids (TSS) concentration and other water quality parameters. Laboratory results were received on September 9, 2021 and a concentration of 300 mg/L TSS was measured. This exceeded the criteria of 100 mg/L TSS, as per the obligations under the Nunavut Water Board License 2AM-MEL1631, Part D, item 18. When the analytical results were received and the exceedance identified Agnico Eagle Mines immediately reported the exceedance.

The sampling location is referred to as MEL-SR1 (62° 47' 59" N, 92° 5' 35" W) and is shown in Figure 1. Melvin Bay is approximately 50 m south of MEL-SR1.



Figure 1: Sample locations MEL-SR1 and MEL-SR1 US

Exceedance probable root cause

Sampling station MEL-SR1 is located downstream of the exit of a culvert on the south side of the Itivia site. The discharge is a combination of runoff from Rankin Inlet (MEL-SR1 US) and the Itivia site. The water on the Itivia side contributing to the flow to MEL-SR1 passes through a series of check dams for sediment control, however, there are no sediment control measures in place for the runoff water from the Rankin Inlet side.

MEL-SR1 is regularly monitored with increased monitoring during rain events. During this rain event an additional sample was collected upstream at MEL-SR1 US to determine runoff quality from Rankin Inlet before entering the Itivia site. Analytical results are summarized in table 1.

Table 1: Analytical Results

Location	Parameter	Value
MEL-SR1	TSS	300 mg/L
MEL-SR1 US	TSS	1000 mg/L

Sediment control devices (straw logs) are replaced as needed and seen in figure 2. Certificate of analysis for the August 12, 2021 sampling event is attached in appendix A.



Figure 2: Sediment control at discharge

Corrective Measures

As previously mentioned, MEL-SR-01 will continue to be closely monitored for TSS. A review of the current sediment control system will be completed and increased measures (silt fence, sedimentation bag, dams) implemented where identified.

An agreement with Rankin Inlet has been reached to construct Check Dams between Mel-SR1 US and MEL-SR1 to help reduce TSS in the runoff before entering the Itivia site.

Agnico Eagle Mines will continue to immediately report all exceedance as soon as they become aware of the non compliance event.



Brett Fairbairn | Environment Coordinator

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Agnico Eagle Mines Limited - Meliadine Mine, Suite 879 - Rankin Inlet, Nunavut,
Canada X0C 0G0

agnicoeagle.com



Sent from Meliadine

Appendix A – Certificates of Analysis



Your P.O. #: OL-1006009
 Site Location: MELIADINE
 Your C.O.C. #: n/a

Attention: Reporting

Agnico-Eagle
 Meliadine
 Meliadine Mine
 Rankin Inlet, NU
 CANADA X0C 0G0

Report Date: 2021/09/08
 Report #: R6802164
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N7138

Received: 2021/08/19, 09:00

Sample Matrix: Water
 # Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity (1)	5	N/A	2021/08/23	CAM SOP-00448	SM 23 2320 B m
Chloride by Automated Colourimetry (1)	5	N/A	2021/08/24	CAM SOP-00463	SM 23 4500-Cl E m
Total Cyanide (1)	5	2021/08/25	2021/08/26	CAM SOP-00457	OMOE E3015 5 m
Fluoride (1)	5	2021/08/21	2021/08/23	CAM SOP-00449	SM 23 4500-F C m
Mercury (low level) (1)	5	2021/08/24	2021/08/24	CAM SOP-00453	EPA 7470 m
Hardness Total (calculated as CaCO ₃) (2, 4)	5	N/A	2021/08/26	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO ₃) (2)	5	N/A	2021/09/03	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.) (2)	5	N/A	2021/09/03	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved) (2)	5	N/A	2021/09/02	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total) (2)	5	2021/08/20	2021/08/26	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (total) (2)	5	2021/08/24	2021/08/25	BBY7SOP-00003/ BBY7SOEPA 6020B R2 m -00002	
Silica (Reactive) (3)	5	N/A	2021/08/29	AB SOP-00011	EPA370.1 R1978 m
Total Ammonia-N (1)	5	N/A	2021/08/24	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO ₃) and Nitrite (NO ₂) in Water (1, 5)	4	N/A	2021/08/23	CAM SOP-00440	SM 23 4500-NO ₃ /NO ₂ B
Nitrate (NO ₃) and Nitrite (NO ₂) in Water (1, 5)	1	N/A	2021/08/24	CAM SOP-00440	SM 23 4500-NO ₃ /NO ₂ B
Total Oil and Grease (1)	5	2021/08/24	2021/08/25	CAM SOP-00326	EPA1664B m, SM5520B m
pH (1)	5	2021/08/21	2021/08/23	CAM SOP-00413	SM 4500H+ B m
Orthophosphate (1)	5	N/A	2021/08/24	CAM SOP-00461	EPA 365.1 m
Sulphate by Automated Colourimetry (1)	5	N/A	2021/08/24	CAM SOP-00464	EPA 375.4 m
Calculated Total Dissolved Solids (1)	5	N/A	2021/09/08		Auto Calc
Total Dissolved Solids (1)	5	2021/08/23	2021/08/24	CAM SOP-00428	SM 23 2540C m
Total Phosphorus (Colourimetric) (1)	5	2021/08/24	2021/08/24	CAM SOP-00407	SM 23 4500 P B H m
Low Level Total Suspended Solids (1)	5	2021/08/21	2021/08/21	CAM SOP-00428	SM 23 2540D m
Turbidity (1)	5	N/A	2021/08/23	CAM SOP-00417	SM 23 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in



Your P.O. #: OL-1006009
Site Location: MELIADINE
Your C.O.C. #: n/a

Attention: Reporting

Agnico-Eagle
Meliadine
Meliadine Mine
Rankin Inlet, NU
CANADA X0C 0G0

Report Date: 2021/09/08
Report #: R6802164
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1N7138

Received: 2021/08/19, 09:00

writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga

(2) This test was performed by Bureau Veritas Burnaby via Mississauga

(3) This test was performed by Bureau Veritas Calgary via Mississauga

(4) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(5) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Katherine Szozda, Project Manager

Email: Katherine.Szozda@bureauveritas.com

Phone# (613)274-0573 Ext:7063633

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		QKW304	QKW306	QKW307	QKW308		
Sampling Date		2021/08/12 08:36	2021/08/12 08:40	2021/08/12 08:50	2021/08/12 09:15		
COC Number		n/a	n/a	n/a	n/a		
	UNITS	MEL-SR1	MEL-SR1 US	MEL-SR7	MEL-SR7 US	RDL	QC Batch
Calculated Parameters							
Dissolved Hardness (CaCO ₃)	mg/L	399	224	552	205	0.50	7559541
Metals							
Dissolved Aluminum (Al)	mg/L	0.0333	0.0365	0.0049	0.0397	0.0030	7559543
Dissolved Antimony (Sb)	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00050	7559543
Dissolved Arsenic (As)	mg/L	0.00228	0.00096	0.00388	0.00082	0.00010	7559543
Dissolved Barium (Ba)	mg/L	0.0605	0.0435	0.0623	0.0572	0.0010	7559543
Dissolved Beryllium (Be)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7559543
Dissolved Bismuth (Bi)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	7559543
Dissolved Boron (B)	mg/L	0.121	0.160	0.131	0.057	0.050	7559543
Dissolved Cadmium (Cd)	mg/L	<0.000010	<0.000010	0.000022	<0.000010	0.000010	7559543
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	7559543
Dissolved Cobalt (Co)	mg/L	<0.00020	<0.00020	0.00042	<0.00020	0.00020	7559543
Dissolved Copper (Cu)	mg/L	0.00405	0.00355	0.00434	0.00329	0.00020	7559543
Dissolved Iron (Fe)	mg/L	0.0061	0.0091	0.0120	0.0058	0.0050	7559543
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	7559543
Dissolved Lithium (Li)	mg/L	0.0666	0.0075	0.0937	0.0085	0.0020	7559543
Dissolved Manganese (Mn)	mg/L	0.0066	0.0011	0.0059	<0.0010	0.0010	7559543
Dissolved Molybdenum (Mo)	mg/L	0.0011	0.0017	<0.0010	0.0011	0.0010	7559543
Dissolved Nickel (Ni)	mg/L	0.0060	0.0024	0.0117	0.0017	0.0010	7559543
Dissolved Selenium (Se)	mg/L	<0.00010	0.00018	0.00011	<0.00010	0.00010	7559543
Dissolved Silicon (Si)	mg/L	1.44	1.23	1.51	1.48	0.10	7559543
Dissolved Silver (Ag)	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	0.000020	7559543
Dissolved Strontium (Sr)	mg/L	1.35	0.293	1.93	0.368	0.0010	7559543
Dissolved Thallium (Tl)	mg/L	0.000021	0.000018	0.000029	0.000018	0.000010	7559543
Dissolved Tin (Sn)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7559543
Dissolved Titanium (Ti)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7559543
Dissolved Uranium (U)	mg/L	0.00227	0.00205	0.00203	0.00202	0.00010	7559543
Dissolved Vanadium (V)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7559543
Dissolved Zinc (Zn)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7559543
Dissolved Zirconium (Zr)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7559543
Dissolved Calcium (Ca)	mg/L	126	55.4	167	67.7	0.050	7559542
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		QKW304	QKW306	QKW307	QKW308		
Sampling Date		2021/08/12 08:36	2021/08/12 08:40	2021/08/12 08:50	2021/08/12 09:15		
COC Number		n/a	n/a	n/a	n/a		
	UNITS	MEL-SR1	MEL-SR1 US	MEL-SR7	MEL-SR7 US	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	20.5	20.9	32.6	8.73	0.050	7559542
Dissolved Potassium (K)	mg/L	11.9	14.1	14.3	9.37	0.050	7559542
Dissolved Sodium (Na)	mg/L	72.7	123	120	35.4	0.050	7559542
Dissolved Sulphur (S)	mg/L	51.6	42.8	73.6	29.3	3.0	7559542

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		QKW309		
Sampling Date		2021/08/12 09:30		
COC Number		n/a		
	UNITS	MEL-SR11	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO ₃)	mg/L	317	0.50	7559544
Metals				
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	7559543
Dissolved Antimony (Sb)	mg/L	0.0142	0.00050	7559543
Dissolved Arsenic (As)	mg/L	0.00142	0.00010	7559543
Dissolved Barium (Ba)	mg/L	0.0279	0.0010	7559543
Dissolved Beryllium (Be)	mg/L	<0.00010	0.00010	7559543
Dissolved Bismuth (Bi)	mg/L	<0.0010	0.0010	7559543
Dissolved Boron (B)	mg/L	0.158	0.050	7559543
Dissolved Cadmium (Cd)	mg/L	<0.000010	0.000010	7559543
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	7559543
Dissolved Cobalt (Co)	mg/L	<0.00020	0.00020	7559543
Dissolved Copper (Cu)	mg/L	0.00232	0.00020	7559543
Dissolved Iron (Fe)	mg/L	0.0141	0.0050	7559543
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	7559543
Dissolved Lithium (Li)	mg/L	0.0127	0.0020	7559543
Dissolved Manganese (Mn)	mg/L	<0.0010	0.0010	7559543
Dissolved Molybdenum (Mo)	mg/L	0.0070	0.0010	7559543
Dissolved Nickel (Ni)	mg/L	0.0036	0.0010	7559543
Dissolved Selenium (Se)	mg/L	0.00030	0.00010	7559543
Dissolved Silicon (Si)	mg/L	1.74	0.10	7559543
Dissolved Silver (Ag)	mg/L	<0.000020	0.000020	7559543
Dissolved Strontium (Sr)	mg/L	0.403	0.0010	7559543
Dissolved Thallium (Tl)	mg/L	<0.000010	0.000010	7559543
Dissolved Tin (Sn)	mg/L	<0.0050	0.0050	7559543
Dissolved Titanium (Ti)	mg/L	<0.0050	0.0050	7559543
Dissolved Uranium (U)	mg/L	0.0204	0.00010	7559543
Dissolved Vanadium (V)	mg/L	<0.0050	0.0050	7559543
Dissolved Zinc (Zn)	mg/L	<0.0050	0.0050	7559543
Dissolved Zirconium (Zr)	mg/L	0.00011	0.00010	7559543
Dissolved Calcium (Ca)	mg/L	77.0	0.050	7559542
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

DISS. ICPMS METALS FOR FEDERAL INT. GWQG (WATER)

BV Labs ID		QKW309		
Sampling Date		2021/08/12 09:30		
COC Number		n/a		
	UNITS	MEL-SR11	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	30.3	0.050	7559542
Dissolved Potassium (K)	mg/L	14.3	0.050	7559542
Dissolved Sodium (Na)	mg/L	121	0.050	7559542
Dissolved Sulphur (S)	mg/L	68.3	3.0	7559542
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		QKW304			QKW306		QKW307		
Sampling Date		2021/08/12 08:36			2021/08/12 08:40		2021/08/12 08:50		
COC Number		n/a			n/a		n/a		
	UNITS	MEL-SR1	RDL	QC Batch	MEL-SR1 US	RDL	MEL-SR7	RDL	QC Batch

Metals									
Total Aluminum (Al)	mg/L	10.8	0.0030	7544827	36.0	0.015	0.137	0.0030	7544827
Total Antimony (Sb)	mg/L	<0.00050	0.00050	7544827	<0.0025	0.0025	<0.00050	0.00050	7544827
Total Arsenic (As)	mg/L	0.0156	0.00010	7544827	0.0333	0.00050	0.00596	0.00010	7544827
Total Barium (Ba)	mg/L	0.163	0.0010	7544827	0.435	0.0050	0.0654	0.0010	7544827
Total Beryllium (Be)	mg/L	0.00012	0.00010	7544827	0.00059	0.00050	<0.00010	0.00010	7544827
Total Bismuth (Bi)	mg/L	<0.0010	0.0010	7544827	<0.0050	0.0050	<0.0010	0.0010	7544827
Total Boron (B)	mg/L	0.147	0.050	7544827	<0.25	0.25	0.142	0.050	7544827
Total Cadmium (Cd)	mg/L	0.000066	0.000010	7544827	0.000324	0.000050	0.000030	0.000010	7544827
Total Chromium (Cr)	mg/L	0.0662	0.0010	7544827	0.196	0.0050	0.0013	0.0010	7544827
Total Cobalt (Co)	mg/L	0.0113	0.00020	7544827	0.0474	0.0010	0.00214	0.00020	7544827
Total Copper (Cu)	mg/L	0.0318	0.00050	7544827	0.195	0.0025	0.00497	0.00050	7544827
Total Iron (Fe)	mg/L	17.9	0.010	7544827	58.7	0.050	0.369	0.010	7544827
Total Lead (Pb)	mg/L	0.0102	0.00020	7544827	0.0220	0.0010	<0.00020	0.00020	7544827
Total Lithium (Li)	mg/L	0.100	0.0020	7544827	0.074	0.010	0.102	0.0020	7544827
Total Manganese (Mn)	mg/L	0.256	0.0010	7544827	0.876	0.0050	0.0691	0.0010	7544827
Total Molybdenum (Mo)	mg/L	0.0015	0.0010	7544827	<0.0050	0.0050	<0.0010	0.0010	7544827
Total Nickel (Ni)	mg/L	0.0386	0.0010	7544827	0.128	0.0050	0.0127	0.0010	7544827
Total Selenium (Se)	mg/L	0.00015	0.00010	7544827	0.00059	0.00050	0.00012	0.00010	7544827
Total Silicon (Si)	mg/L	18.4	0.10	7544827	60.3	0.50	1.76	0.10	7544827
Total Silver (Ag)	mg/L	0.000028	0.000020	7544827	0.00020	0.00010	<0.000020	0.000020	7544827
Total Strontium (Sr)	mg/L	1.47	0.0010	7544827	0.394	0.0050	1.99	0.0010	7544827
Total Thallium (Tl)	mg/L	0.000182	0.000010	7544827	0.000582	0.000050	0.000028	0.000010	7544827
Total Tin (Sn)	mg/L	<0.0050	0.0050	7544827	<0.025	0.025	<0.0050	0.0050	7544827
Total Titanium (Ti)	mg/L	0.623	0.0050	7544827	2.09	0.025	<0.0050	0.0050	7544827
Total Uranium (U)	mg/L	0.00273	0.00010	7544827	0.00433	0.00050	0.00196	0.00010	7544827
Total Vanadium (V)	mg/L	0.0307	0.0050	7544827	0.109	0.025	<0.0050	0.0050	7544827
Total Zinc (Zn)	mg/L	0.0792	0.0050	7544827	0.199	0.025	<0.0050	0.0050	7544827
Total Zirconium (Zr)	mg/L	0.00221	0.00010	7544827	0.00546	0.00050	<0.00010	0.00010	7544827
Total Calcium (Ca)	mg/L	139	0.050	7544425	78.1	0.25	171	0.050	7544425
Total Magnesium (Mg)	mg/L	29.4	0.050	7544425	48.1	0.25	32.7	0.050	7544425
Total Potassium (K)	mg/L	15.4	0.050	7544425	26.7	0.25	14.4	0.050	7544425

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		QKW304			QKW306		QKW307		
Sampling Date		2021/08/12 08:36			2021/08/12 08:40		2021/08/12 08:50		
COC Number		n/a			n/a		n/a		
	UNITS	MEL-SR1	RDL	QC Batch	MEL-SR1 US	RDL	MEL-SR7	RDL	QC Batch
Total Sodium (Na)	mg/L	74.6	0.050	7544425	135	0.25	120	0.050	7544425
Total Sulphur (S)	mg/L	54.8	3.0	7544425	44	15	75.3	3.0	7544425
Calculated Parameters									
Total Hardness (CaCO ₃)	mg/L	469	0.50	7544423	393	0.50	562	0.50	7544828
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		QKW308		QKW309		
Sampling Date		2021/08/12 09:15		2021/08/12 09:30		
COC Number		n/a		n/a		
	UNITS	MEL-SR7 US	RDL	MEL-SR11	RDL	QC Batch
Metals						
Total Aluminum (Al)	mg/L	28.5	0.015	0.0759	0.0030	7544827
Total Antimony (Sb)	mg/L	<0.0025	0.0025	0.0144	0.00050	7544827
Total Arsenic (As)	mg/L	0.0218	0.00050	0.00183	0.00010	7544827
Total Barium (Ba)	mg/L	0.488	0.0050	0.0298	0.0010	7544827
Total Beryllium (Be)	mg/L	0.00051	0.00050	<0.00010	0.00010	7544827
Total Bismuth (Bi)	mg/L	<0.0050	0.0050	<0.0010	0.0010	7544827
Total Boron (B)	mg/L	<0.25	0.25	0.171	0.050	7544827
Total Cadmium (Cd)	mg/L	0.000195	0.000050	0.000016	0.000010	7544827
Total Chromium (Cr)	mg/L	0.132	0.0050	<0.0010	0.0010	7544827
Total Cobalt (Co)	mg/L	0.0367	0.0010	0.00033	0.00020	7544827
Total Copper (Cu)	mg/L	0.129	0.0025	0.00298	0.00050	7544827
Total Iron (Fe)	mg/L	45.4	0.050	0.232	0.010	7544827
Total Lead (Pb)	mg/L	0.0235	0.0010	<0.00020	0.00020	7544827
Total Lithium (Li)	mg/L	0.064	0.010	0.0144	0.0020	7544827
Total Manganese (Mn)	mg/L	0.791	0.0050	0.0039	0.0010	7544827
Total Molybdenum (Mo)	mg/L	<0.0050	0.0050	0.0070	0.0010	7544827
Total Nickel (Ni)	mg/L	0.0837	0.0050	0.0042	0.0010	7544827
Total Selenium (Se)	mg/L	<0.00050	0.00050	0.00032	0.00010	7544827
Total Silicon (Si)	mg/L	41.8	0.50	2.05	0.10	7544827
Total Silver (Ag)	mg/L	<0.00010	0.00010	<0.000020	0.000020	7544827
Total Strontium (Sr)	mg/L	0.481	0.0050	0.411	0.0010	7544827
Total Thallium (Tl)	mg/L	0.000563	0.000050	<0.000010	0.000010	7544827
Total Tin (Sn)	mg/L	<0.025	0.025	<0.0050	0.0050	7544827
Total Titanium (Ti)	mg/L	1.83	0.025	<0.0050	0.0050	7544827
Total Uranium (U)	mg/L	0.00383	0.00050	0.0198	0.00010	7544827
Total Vanadium (V)	mg/L	0.090	0.025	<0.0050	0.0050	7544827
Total Zinc (Zn)	mg/L	0.185	0.025	<0.0050	0.0050	7544827
Total Zirconium (Zr)	mg/L	0.0163	0.00050	<0.00010	0.00010	7544827
Total Calcium (Ca)	mg/L	92.8	0.25	81.6	0.050	7544425
Total Magnesium (Mg)	mg/L	29.0	0.25	31.0	0.050	7544425
Total Potassium (K)	mg/L	21.3	0.25	14.5	0.050	7544425
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

TOTAL ICPMS METALS FOR CCME CEQG FOR SW (WATER)

BV Labs ID		QKW308		QKW309		
Sampling Date		2021/08/12 09:15		2021/08/12 09:30		
COC Number		n/a		n/a		
	UNITS	MEL-SR7 US	RDL	MEL-SR11	RDL	QC Batch
Total Sodium (Na)	mg/L	38.5	0.25	123	0.050	7544425
Total Sulphur (S)	mg/L	27	15	70.6	3.0	7544425
Calculated Parameters						
Total Hardness (CaCO ₃)	mg/L	351	0.50	332	0.50	7544828
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

RESULTS OF ANALYSES OF WATER

BV Labs ID		QKW304		QKW306			QKW307		QKW308		
Sampling Date		2021/08/12 08:36		2021/08/12 08:40			2021/08/12 08:50		2021/08/12 09:15		
COC Number		n/a		n/a			n/a		n/a		
	UNITS	MEL-SR1	RDL	MEL-SR1 US	RDL	QC Batch	MEL-SR7	RDL	MEL-SR7 US	RDL	QC Batch
Calculated Parameters											
Calculated TDS	mg/L	680	1.0	610	1.0	7532762	1000	1.0	350	1.0	7532762
Inorganics											
Total Ammonia-N	mg/L	0.21	0.050	0.13	0.050	7536433	0.13	0.050	0.15	0.050	7536433
Total Dissolved Solids	mg/L	770	10	625	10	7536426	1080	10	355	10	7536426
Fluoride (F-)	mg/L	0.11	0.10	0.13	0.10	7534336	<0.10	0.10	0.13	0.10	7534336
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	7534679	<0.010	0.010	<0.010	0.010	7534679
pH	pH	8.09		7.98		7534342	8.01		8.07		7534342
Total Phosphorus	mg/L	0.21	0.020	0.86	0.10	7537644	<0.020	0.020	0.89	0.10	7537644
Reactive Silica (SiO ₂)	mg/L	3.0	0.050	2.2	0.050	7548215	3.7	0.050	3.0	0.050	7548216
Total Suspended Solids	mg/L	300	3	1000	5	7534208	5	1	1100	5	7534208
Dissolved Sulphate (SO ₄)	mg/L	150	1.0	120	1.0	7534677	220	1.0	83	1.0	7534677
Total Cyanide (CN)	mg/L	<0.0050	0.0050	<0.0050	0.0050	7541126	<0.0050	0.0050	<0.0050	0.0050	7541126
Turbidity	NTU	130	0.1	210	0.1	7534393	4.8	0.1	220	0.1	7534393
Alkalinity (Total as CaCO ₃)	mg/L	150	1.0	67	1.0	7534341	160	1.0	110	1.0	7534341
Dissolved Chloride (Cl-)	mg/L	200	3.0	230	3.0	7534675	360	5.0	78	1.0	7534675
Nitrite (N)	mg/L	<0.010	0.010	0.016	0.010	7534669	<0.010	0.010	0.016	0.010	7534669
Nitrate (N)	mg/L	0.27	0.10	0.26	0.10	7534669	0.27	0.10	0.10	0.10	7534669
Nitrate + Nitrite (N)	mg/L	0.27	0.10	0.27	0.10	7534669	0.27	0.10	0.12	0.10	7534669
Petroleum Hydrocarbons											
Total Oil & Grease	mg/L	<0.50	0.50	<0.50	0.50	7538994	<0.50	0.50	<0.50	0.50	7538994
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

RESULTS OF ANALYSES OF WATER

BV Labs ID		QKW309		
Sampling Date		2021/08/12 09:30		
COC Number		n/a		
	UNITS	MEL-SR11	RDL	QC Batch
Calculated Parameters				
Calculated TDS	mg/L	720	1.0	7532762
Inorganics				
Total Ammonia-N	mg/L	0.063	0.050	7536433
Total Dissolved Solids	mg/L	705	10	7536426
Fluoride (F-)	mg/L	0.28	0.10	7534336
Orthophosphate (P)	mg/L	<0.010	0.010	7534679
pH	pH	8.10		7534342
Total Phosphorus	mg/L	0.039	0.020	7537644
Reactive Silica (SiO ₂)	mg/L	4.1	0.050	7548216
Total Suspended Solids	mg/L	10	1	7534208
Dissolved Sulphate (SO ₄)	mg/L	200	1.0	7534677
Total Cyanide (CN)	mg/L	<0.0050	0.0050	7541126
Turbidity	NTU	0.9	0.1	7534393
Alkalinity (Total as CaCO ₃)	mg/L	160	1.0	7534341
Dissolved Chloride (Cl-)	mg/L	170	2.0	7534675
Nitrite (N)	mg/L	<0.010	0.010	7534669
Nitrate (N)	mg/L	1.86	0.10	7534669
Nitrate + Nitrite (N)	mg/L	1.86	0.10	7534669
Petroleum Hydrocarbons				
Total Oil & Grease	mg/L	<0.50	0.50	7538994
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QKW304	QKW306	QKW307	QKW308	QKW309		
Sampling Date		2021/08/12 08:36	2021/08/12 08:40	2021/08/12 08:50	2021/08/12 09:15	2021/08/12 09:30		
COC Number		n/a	n/a	n/a	n/a	n/a		
	UNITS	MEL-SR1	MEL-SR1 US	MEL-SR7	MEL-SR7 US	MEL-SR11	RDL	QC Batch
Metals								
Mercury (Hg)	mg/L	0.00009	0.00004	<0.00001	0.00003	0.00001	0.00001	7538731
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

TEST SUMMARY

BV Labs ID: QKW304

Sample ID: MEL-SR1

Matrix: Water

Collected: 2021/08/12

Shipped:

Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7534341	N/A	2021/08/23	Surinder Rai
Chloride by Automated Colourimetry	KONE	7534675	N/A	2021/08/24	Alina Dobreanu
Total Cyanide	SKAL/CN	7541126	2021/08/25	2021/08/26	Aditiben Patel
Fluoride	ISE	7534336	2021/08/21	2021/08/23	Surinder Rai
Mercury (low level)	CV/AA	7538731	2021/08/24	2021/08/24	Gagandeep Rai
Hardness Total (calculated as CaCO ₃)	CALC	7544423	N/A	2021/08/26	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	7559541	N/A	2021/09/03	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	7559542	N/A	2021/09/03	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	7559543	N/A	2021/09/02	Sahar Omar Al-Abdalla
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	7544425	2021/08/26	2021/08/26	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	7544827	2021/08/24	2021/08/25	Sahar Omar Al-Abdalla
Silica (Reactive)	KONE	7548215	N/A	2021/08/29	Serena Tian
Total Ammonia-N	LACH/NH ₄	7536433	N/A	2021/08/24	Amanpreet Sappal
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	7534669	N/A	2021/08/23	Chandra Nandlal
Total Oil and Grease	BAL	7538994	2021/08/24	2021/08/25	Saumya Modh
pH	AT	7534342	2021/08/21	2021/08/23	Surinder Rai
Orthophosphate	KONE	7534679	N/A	2021/08/24	Avneet Kour Sudan
Sulphate by Automated Colourimetry	KONE	7534677	N/A	2021/08/24	Alina Dobreanu
Calculated Total Dissolved Solids	CALC	7532762	N/A	2021/09/08	Automated Statchk
Total Dissolved Solids	BAL	7536426	2021/08/23	2021/08/24	Shaneil Hall
Total Phosphorus (Colourimetric)	LACH/P	7537644	2021/08/24	2021/08/24	Shivani Shivani
Low Level Total Suspended Solids	BAL	7534208	2021/08/21	2021/08/21	Sandeep Kaur
Turbidity	AT	7534393	N/A	2021/08/23	Neil Dassanayake

BV Labs ID: QKW306

Sample ID: MEL-SR1 US

Matrix: Water

Collected: 2021/08/12

Shipped:

Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7534341	N/A	2021/08/23	Surinder Rai
Chloride by Automated Colourimetry	KONE	7534675	N/A	2021/08/24	Alina Dobreanu
Total Cyanide	SKAL/CN	7541126	2021/08/25	2021/08/26	Aditiben Patel
Fluoride	ISE	7534336	2021/08/21	2021/08/23	Surinder Rai
Mercury (low level)	CV/AA	7538731	2021/08/24	2021/08/24	Gagandeep Rai
Hardness Total (calculated as CaCO ₃)	CALC	7544828	N/A	2021/08/26	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	7559541	N/A	2021/09/03	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	7559542	N/A	2021/09/03	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	7559543	N/A	2021/09/02	Sahar Omar Al-Abdalla
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	7544425	2021/08/26	2021/08/26	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	7544827	2021/08/24	2021/08/25	Sahar Omar Al-Abdalla
Silica (Reactive)	KONE	7548215	N/A	2021/08/29	Serena Tian
Total Ammonia-N	LACH/NH ₄	7536433	N/A	2021/08/24	Amanpreet Sappal
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	7534669	N/A	2021/08/23	Chandra Nandlal
Total Oil and Grease	BAL	7538994	2021/08/24	2021/08/25	Saumya Modh
pH	AT	7534342	2021/08/21	2021/08/23	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

TEST SUMMARY

BV Labs ID: QKW306
Sample ID: MEL-SR1 US
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7534679	N/A	2021/08/24	Avneet Kour Sudan
Sulphate by Automated Colourimetry	KONE	7534677	N/A	2021/08/24	Alina Dobreanu
Calculated Total Dissolved Solids	CALC	7532762	N/A	2021/09/08	Automated Statchk
Total Dissolved Solids	BAL	7536426	2021/08/23	2021/08/24	Shaneil Hall
Total Phosphorus (Colourimetric)	LACH/P	7537644	2021/08/24	2021/08/24	Shivani Shivani
Low Level Total Suspended Solids	BAL	7534208	2021/08/21	2021/08/21	Sandeep Kaur
Turbidity	AT	7534393	N/A	2021/08/23	Neil Dassanayake

BV Labs ID: QKW307
Sample ID: MEL-SR7
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7534341	N/A	2021/08/23	Surinder Rai
Chloride by Automated Colourimetry	KONE	7534675	N/A	2021/08/24	Alina Dobreanu
Total Cyanide	SKAL/CN	7541126	2021/08/25	2021/08/26	Aditiben Patel
Fluoride	ISE	7534336	2021/08/21	2021/08/23	Surinder Rai
Mercury (low level)	CV/AA	7538731	2021/08/24	2021/08/24	Gagandeep Rai
Hardness Total (calculated as CaCO ₃)	CALC	7544828	N/A	2021/08/26	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	7559541	N/A	2021/09/03	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	7559542	N/A	2021/09/03	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	7559543	N/A	2021/09/02	Sahar Omar Al-Abdalla
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	7544425	2021/08/26	2021/08/26	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	7544827	2021/08/24	2021/08/25	Sahar Omar Al-Abdalla
Silica (Reactive)	KONE	7548216	N/A	2021/08/29	Serena Tian
Total Ammonia-N	LACH/NH ₄	7536433	N/A	2021/08/24	Amanpreet Sappal
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	7534669	N/A	2021/08/23	Chandra Nandlal
Total Oil and Grease	BAL	7538994	2021/08/24	2021/08/25	Saumya Modh
pH	AT	7534342	2021/08/21	2021/08/23	Surinder Rai
Orthophosphate	KONE	7534679	N/A	2021/08/24	Avneet Kour Sudan
Sulphate by Automated Colourimetry	KONE	7534677	N/A	2021/08/24	Alina Dobreanu
Calculated Total Dissolved Solids	CALC	7532762	N/A	2021/09/08	Automated Statchk
Total Dissolved Solids	BAL	7536426	2021/08/23	2021/08/24	Shaneil Hall
Total Phosphorus (Colourimetric)	LACH/P	7537644	2021/08/24	2021/08/24	Shivani Shivani
Low Level Total Suspended Solids	BAL	7534208	2021/08/21	2021/08/21	Sandeep Kaur
Turbidity	AT	7534393	N/A	2021/08/23	Neil Dassanayake

BV Labs ID: QKW308
Sample ID: MEL-SR7 US
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7534341	N/A	2021/08/23	Surinder Rai
Chloride by Automated Colourimetry	KONE	7534675	N/A	2021/08/24	Alina Dobreanu
Total Cyanide	SKAL/CN	7541126	2021/08/25	2021/08/26	Aditiben Patel



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

TEST SUMMARY

BV Labs ID: QKW308
Sample ID: MEL-SR7 US
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7534336	2021/08/21	2021/08/23	Surinder Rai
Mercury (low level)	CV/AA	7538731	2021/08/24	2021/08/24	Gagandeep Rai
Hardness Total (calculated as CaCO ₃)	CALC	7544828	N/A	2021/08/26	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	7559541	N/A	2021/09/03	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	7559542	N/A	2021/09/03	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	7559543	N/A	2021/09/02	Sahar Omar Al-Abdalla
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	7544425	2021/08/26	2021/08/26	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	7544827	2021/08/24	2021/08/25	Sahar Omar Al-Abdalla
Silica (Reactive)	KONE	7548216	N/A	2021/08/29	Serena Tian
Total Ammonia-N	LACH/NH ₄	7536433	N/A	2021/08/24	Amanpreet Sappal
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	7534669	N/A	2021/08/23	Chandra Nandlal
Total Oil and Grease	BAL	7538994	2021/08/24	2021/08/25	Saumya Modh
pH	AT	7534342	2021/08/21	2021/08/23	Surinder Rai
Orthophosphate	KONE	7534679	N/A	2021/08/24	Avneet Kour Sudan
Sulphate by Automated Colourimetry	KONE	7534677	N/A	2021/08/24	Alina Dobreanu
Calculated Total Dissolved Solids	CALC	7532762	N/A	2021/09/08	Automated Statchk
Total Dissolved Solids	BAL	7536426	2021/08/23	2021/08/24	Shaneil Hall
Total Phosphorus (Colourimetric)	LACH/P	7537644	2021/08/24	2021/08/24	Shivani Shivani
Low Level Total Suspended Solids	BAL	7534208	2021/08/21	2021/08/21	Sandeep Kaur
Turbidity	AT	7534393	N/A	2021/08/23	Neil Dassanayake

BV Labs ID: QKW309
Sample ID: MEL-SR11
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7534341	N/A	2021/08/23	Surinder Rai
Chloride by Automated Colourimetry	KONE	7534675	N/A	2021/08/24	Alina Dobreanu
Total Cyanide	SKAL/CN	7541126	2021/08/25	2021/08/26	Aditiben Patel
Fluoride	ISE	7534336	2021/08/21	2021/08/23	Surinder Rai
Mercury (low level)	CV/AA	7538731	2021/08/24	2021/08/24	Gagandeep Rai
Hardness Total (calculated as CaCO ₃)	CALC	7544828	N/A	2021/08/26	Automated Statchk
Hardness (calculated as CaCO ₃)	CALC	7559544	N/A	2021/09/03	Automated Statchk
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	ICP	7559542	N/A	2021/09/03	Automated Statchk
Elements by CRC ICPMS (dissolved)	ICP/MS	7559543	N/A	2021/09/02	Sahar Omar Al-Abdalla
Na, K, Ca, Mg, S by CRC ICPMS (total)	ICP	7544425	2021/08/26	2021/08/26	Automated Statchk
Elements by CRC ICPMS (total)	ICP/MS	7544827	2021/08/24	2021/08/25	Sahar Omar Al-Abdalla
Silica (Reactive)	KONE	7548216	N/A	2021/08/29	Serena Tian
Total Ammonia-N	LACH/NH ₄	7536433	N/A	2021/08/24	Amanpreet Sappal
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	7534669	N/A	2021/08/24	Chandra Nandlal
Total Oil and Grease	BAL	7538994	2021/08/24	2021/08/25	Saumya Modh
pH	AT	7534342	2021/08/21	2021/08/23	Surinder Rai
Orthophosphate	KONE	7534679	N/A	2021/08/24	Avneet Kour Sudan
Sulphate by Automated Colourimetry	KONE	7534677	N/A	2021/08/24	Alina Dobreanu
Calculated Total Dissolved Solids	CALC	7532762	N/A	2021/09/08	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

TEST SUMMARY

BV Labs ID: QKW309
Sample ID: MEL-SR11
Matrix: Water

Collected: 2021/08/12
Shipped:
Received: 2021/08/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7536426	2021/08/23	2021/08/24	Shaneil Hall
Total Phosphorus (Colourimetric)	LACH/P	7537644	2021/08/24	2021/08/24	Shivani Shivani
Low Level Total Suspended Solids	BAL	7534208	2021/08/21	2021/08/21	Sandeep Kaur
Turbidity	AT	7534393	N/A	2021/08/23	Neil Dassanayake



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.0°C
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Sample QKW304 [MEL-SR1] : The sample for dissolved metals was filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling.

Sample QKW306 [MEL-SR1 US] : The sample for dissolved metals was filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling.

Sample QKW307 [MEL-SR7] : The sample for dissolved metals was filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling.

Sample QKW308 [MEL-SR7 US] : The sample for dissolved metals was filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling.

Sample QKW309 [MEL-SR11] : The sample for dissolved metals was filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling.

Results relate only to the items tested.

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BV Labs Job #: C1N7138

Report Date: 2021/09/08

QUALITY ASSURANCE REPORT

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7534208	Total Suspended Solids	2021/08/21					<1	mg/L	NC	25	101	85 - 115
7534336	Fluoride (F-)	2021/08/23	96	80 - 120	100	80 - 120	<0.10	mg/L	7.5	20		
7534341	Alkalinity (Total as CaCO3)	2021/08/23			98	85 - 115	<1.0	mg/L	2.1	20		
7534342	pH	2021/08/23			102	98 - 103			0.77	N/A		
7534393	Turbidity	2021/08/23			101	85 - 115	<0.1	NTU	NC	20		
7534669	Nitrate (N)	2021/08/23	101	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
7534669	Nitrite (N)	2021/08/23	106	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7534675	Dissolved Chloride (Cl-)	2021/08/24	107	80 - 120	100	80 - 120	<1.0	mg/L	0.53	20		
7534677	Dissolved Sulphate (SO4)	2021/08/24	104	75 - 125	100	80 - 120	<1.0	mg/L	1.6	20		
7534679	Orthophosphate (P)	2021/08/24	118	75 - 125	101	80 - 120	<0.010	mg/L	4.5	25		
7536426	Total Dissolved Solids	2021/08/24					<10	mg/L	0.077	25	97	90 - 110
7536433	Total Ammonia-N	2021/08/24	97	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7537644	Total Phosphorus	2021/08/24	94	80 - 120	96	80 - 120	<0.020	mg/L	4.2	20	97	80 - 120
7538731	Mercury (Hg)	2021/08/24	99	75 - 125	97	80 - 120	<0.00001	mg/L	NC	20		
7538994	Total Oil & Grease	2021/08/25			97	85 - 115	<0.50	mg/L	0.52	25		
7541126	Total Cyanide (CN)	2021/08/26	102	80 - 120	104	80 - 120	<0.0050	mg/L	1.2	20		
7544827	Total Aluminum (Al)	2021/08/25	107	80 - 120	101	80 - 120	<0.0030	mg/L				
7544827	Total Antimony (Sb)	2021/08/25	103	80 - 120	101	80 - 120	<0.00050	mg/L				
7544827	Total Arsenic (As)	2021/08/25	103	80 - 120	100	80 - 120	<0.00010	mg/L				
7544827	Total Barium (Ba)	2021/08/25	102	80 - 120	101	80 - 120	<0.0010	mg/L				
7544827	Total Beryllium (Be)	2021/08/25	110	80 - 120	108	80 - 120	<0.00010	mg/L				
7544827	Total Bismuth (Bi)	2021/08/25	95	80 - 120	97	80 - 120	<0.0010	mg/L				
7544827	Total Boron (B)	2021/08/25	106	80 - 120	102	80 - 120	<0.050	mg/L				
7544827	Total Cadmium (Cd)	2021/08/25	104	80 - 120	101	80 - 120	<0.000010	mg/L				
7544827	Total Chromium (Cr)	2021/08/25	98	80 - 120	100	80 - 120	<0.0010	mg/L				
7544827	Total Cobalt (Co)	2021/08/25	99	80 - 120	102	80 - 120	<0.00020	mg/L				
7544827	Total Copper (Cu)	2021/08/25	95	80 - 120	99	80 - 120	<0.00050	mg/L				
7544827	Total Iron (Fe)	2021/08/25	104	80 - 120	103	80 - 120	<0.010	mg/L				
7544827	Total Lead (Pb)	2021/08/25	99	80 - 120	104	80 - 120	<0.00020	mg/L				
7544827	Total Lithium (Li)	2021/08/25	107	80 - 120	107	80 - 120	<0.0020	mg/L				
7544827	Total Manganese (Mn)	2021/08/25	99	80 - 120	100	80 - 120	<0.0010	mg/L				
7544827	Total Molybdenum (Mo)	2021/08/25	108	80 - 120	103	80 - 120	<0.0010	mg/L				

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BV Labs Job #: C1N7138

Report Date: 2021/09/08

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7544827	Total Nickel (Ni)	2021/08/25	95	80 - 120	98	80 - 120	<0.0010	mg/L				
7544827	Total Selenium (Se)	2021/08/25	104	80 - 120	99	80 - 120	<0.00010	mg/L				
7544827	Total Silicon (Si)	2021/08/25	NC	80 - 120	113	80 - 120	<0.10	mg/L				
7544827	Total Silver (Ag)	2021/08/25	101	80 - 120	99	80 - 120	<0.000020	mg/L				
7544827	Total Strontium (Sr)	2021/08/25	NC	80 - 120	101	80 - 120	<0.0010	mg/L				
7544827	Total Thallium (Tl)	2021/08/25	100	80 - 120	101	80 - 120	<0.000010	mg/L				
7544827	Total Tin (Sn)	2021/08/25	103	80 - 120	100	80 - 120	<0.0050	mg/L				
7544827	Total Titanium (Ti)	2021/08/25	103	80 - 120	102	80 - 120	<0.0050	mg/L				
7544827	Total Uranium (U)	2021/08/25	104	80 - 120	103	80 - 120	<0.00010	mg/L				
7544827	Total Vanadium (V)	2021/08/25	101	80 - 120	100	80 - 120	<0.0050	mg/L				
7544827	Total Zinc (Zn)	2021/08/25	100	80 - 120	101	80 - 120	<0.0050	mg/L				
7544827	Total Zirconium (Zr)	2021/08/25	105	80 - 120	101	80 - 120	<0.00010	mg/L				
7548215	Reactive Silica (SiO ₂)	2021/08/29	99	80 - 120	106	80 - 120	<0.050	mg/L				
7548216	Reactive Silica (SiO ₂)	2021/08/29	94	80 - 120	107	80 - 120	<0.050	mg/L	NC	20		
7559543	Dissolved Aluminum (Al)	2021/09/02	96	80 - 120	95	80 - 120	<0.0030	mg/L				
7559543	Dissolved Antimony (Sb)	2021/09/02	101	80 - 120	99	80 - 120	<0.00050	mg/L				
7559543	Dissolved Arsenic (As)	2021/09/02	NC	80 - 120	98	80 - 120	<0.00010	mg/L				
7559543	Dissolved Barium (Ba)	2021/09/02	94	80 - 120	98	80 - 120	<0.0010	mg/L				
7559543	Dissolved Beryllium (Be)	2021/09/02	94	80 - 120	94	80 - 120	<0.00010	mg/L				
7559543	Dissolved Bismuth (Bi)	2021/09/02	96	80 - 120	97	80 - 120	<0.0010	mg/L				
7559543	Dissolved Boron (B)	2021/09/02	95	80 - 120	95	80 - 120	<0.050	mg/L				
7559543	Dissolved Cadmium (Cd)	2021/09/02	99	80 - 120	98	80 - 120	<0.000010	mg/L				
7559543	Dissolved Chromium (Cr)	2021/09/02	98	80 - 120	98	80 - 120	<0.0010	mg/L				
7559543	Dissolved Cobalt (Co)	2021/09/02	97	80 - 120	97	80 - 120	<0.00020	mg/L				
7559543	Dissolved Copper (Cu)	2021/09/02	95	80 - 120	99	80 - 120	<0.00020	mg/L				
7559543	Dissolved Iron (Fe)	2021/09/02	NC	80 - 120	103	80 - 120	<0.0050	mg/L				
7559543	Dissolved Lead (Pb)	2021/09/02	102	80 - 120	103	80 - 120	<0.00020	mg/L				
7559543	Dissolved Lithium (Li)	2021/09/02	95	80 - 120	95	80 - 120	<0.0020	mg/L				
7559543	Dissolved Manganese (Mn)	2021/09/02	NC	80 - 120	97	80 - 120	<0.0010	mg/L				
7559543	Dissolved Molybdenum (Mo)	2021/09/02	104	80 - 120	98	80 - 120	<0.0010	mg/L				
7559543	Dissolved Nickel (Ni)	2021/09/02	96	80 - 120	98	80 - 120	<0.0010	mg/L				
7559543	Dissolved Selenium (Se)	2021/09/02	104	80 - 120	99	80 - 120	<0.00010	mg/L				



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BV Labs Job #: C1N7138

Report Date: 2021/09/08

QUALITY ASSURANCE REPORT(CONT'D)

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7559543	Dissolved Silicon (Si)	2021/09/02	NC	80 - 120	102	80 - 120	<0.10	mg/L				
7559543	Dissolved Silver (Ag)	2021/09/02	96	80 - 120	96	80 - 120	<0.000020	mg/L				
7559543	Dissolved Strontium (Sr)	2021/09/02	NC	80 - 120	95	80 - 120	<0.0010	mg/L				
7559543	Dissolved Thallium (Tl)	2021/09/02	104	80 - 120	99	80 - 120	<0.000010	mg/L				
7559543	Dissolved Tin (Sn)	2021/09/02	101	80 - 120	100	80 - 120	<0.0050	mg/L				
7559543	Dissolved Titanium (Ti)	2021/09/02	101	80 - 120	99	80 - 120	<0.0050	mg/L				
7559543	Dissolved Uranium (U)	2021/09/02	107	80 - 120	104	80 - 120	<0.00010	mg/L				
7559543	Dissolved Vanadium (V)	2021/09/02	100	80 - 120	97	80 - 120	<0.0050	mg/L				
7559543	Dissolved Zinc (Zn)	2021/09/02	98	80 - 120	100	80 - 120	<0.0050	mg/L				
7559543	Dissolved Zirconium (Zr)	2021/09/02	103	80 - 120	97	80 - 120	<0.00010	mg/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times \text{RDL}$).



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

David Huang, BBY Scientific Specialist

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Sandy Yuan, M.Sc., QP, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C1N7138

Report Date: 2021/09/08

Agnico-Eagle

Site Location: MELIADINE

Your P.O. #: OL-1006009

Sampler Initials: GL

Exceedance Summary Table – Metal Mining Effluent Reg
Result Exceedances

Sample ID	BV Labs ID	Parameter	Criteria	Result	DL	UNITS
No Exceedances						
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.						