



Your P.O. #: 997577
Your C.O.C. #: 407011

Attention: Reporting

Agnico Eagle
Meadowbank
Meadowbank
Keewatin, NU
CANADA POX 0A1

Report Date: 2021/09/21
Report #: R6820805
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1Q6662

Received: 2021/09/15, 16:00

Sample Matrix: Water
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Petroleum Hydro. CCME F1 & BTEX in Water (1)	7	N/A	2021/09/17	CAM SOP-00315	CCME PHC-CWS m
Glycols in Water by GC/FID (1)	7	N/A	2021/09/17	CAM SOP-00322	based on EPA 8015
Elements by CRC ICPMS (total) (2)	7	2021/09/20	2021/09/21	BBY7SOP-00003/ BBY7SOEPA 6020B R2 m -00002	
Total Ammonia-N (1)	7	N/A	2021/09/17	CAM SOP-00441	USGS I-2522-90 m
Total Oil and Grease (1)	7	2021/09/16	2021/09/17	CAM SOP-00326	EPA1664B m, SM5520B m
Low Level Total Suspended Solids (1)	7	2021/09/16	2021/09/17	CAM SOP-00428	SM 23 2540D 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 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.

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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, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) This test was performed by Bureau Veritas Burnaby, 4606 Canada Way, Burnaby, BC, V5G 1K5



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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.



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BV Labs Job #: C1Q6662
Report Date: 2021/09/21

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Sampler Initials: NS

RESULTS OF ANALYSES OF WATER

BV Labs ID		QQZ443	QQZ444		QQZ445		QQZ446		
Sampling Date		2021/09/10 17:15	2021/09/10 17:27		2021/09/10 17:20		2021/09/10 17:35		
COC Number		407011	407011		407011		407011		
	UNITS	ST-KM103.5	ST-KM103.3	RDL	ST-KM103.2	RDL	ST-KM103.1	RDL	QC Batch

Inorganics									
Total Ammonia-N	mg/L	0.17	0.34	0.050	<0.050	0.050	0.53	0.050	7582158
Total Suspended Solids	mg/L	<1	22	1	100	2	640	5	7581393
Metals									
Total Arsenic (As)	mg/L	0.00041	0.00315	0.00010	0.00888	0.00010	0.0263	0.00050	7591098
Total Copper (Cu)	mg/L	0.00137	0.00408	0.00050	0.0150	0.00050	0.0423	0.0025	7591098
Total Lead (Pb)	mg/L	<0.00020	0.00081	0.00020	0.00315	0.00020	0.0133	0.0010	7591098
Total Nickel (Ni)	mg/L	0.0031	0.0087	0.0010	0.0223	0.0010	0.0671	0.0050	7591098
Total Zinc (Zn)	mg/L	<0.0050	0.0052	0.0050	0.0175	0.0050	0.062	0.025	7591098
Petroleum Hydrocarbons									
Total Oil & Grease	mg/L	<0.50	<0.50	0.50	<0.50	0.50	17	0.50	7582319
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs ID		QQZ447		QQZ448			QQZ449		
Sampling Date		2021/09/11 17:45		2021/09/11 18:10			2021/09/12 17:50		
COC Number		407011		407011			407011		
	UNITS	ST-KM103.5	RDL	ST-KM103.2	RDL	QC Batch	ST-KM103.5	RDL	QC Batch

Inorganics									
Total Ammonia-N	mg/L	0.078	0.050	1.0	0.050	7582158	0.074	0.050	7582158
Total Suspended Solids	mg/L	<1	1	98	2	7581393	<1	1	7582404
Metals									
Total Arsenic (As)	mg/L	0.00045	0.00010	0.00679	0.00010	7591098	0.00045	0.00010	7591098
Total Copper (Cu)	mg/L	0.00125	0.00050	0.0122	0.00050	7591098	0.00147	0.00050	7591098
Total Lead (Pb)	mg/L	<0.00020	0.00020	0.00273	0.00020	7591098	<0.00020	0.00020	7591098
Total Nickel (Ni)	mg/L	0.0031	0.0010	0.0222	0.0010	7591098	0.0035	0.0010	7591098
Total Zinc (Zn)	mg/L	<0.0050	0.0050	0.0141	0.0050	7591098	<0.0050	0.0050	7591098
Petroleum Hydrocarbons									
Total Oil & Grease	mg/L	<0.50	0.50	<0.50	0.50	7582319	<0.50	0.50	7582319
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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RESULTS OF ANALYSES OF WATER

BV Labs ID		QQZ449		
Sampling Date		2021/09/12 17:50		
COC Number		407011		
	UNITS	ST-KM103.5	RDL	QC Batch
		Lab-Dup		
Inorganics				
Total Ammonia-N	mg/L	0.069	0.050	7582158
Total Suspended Solids	mg/L	1	1	7582404
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				
Lab-Dup = Laboratory Initiated Duplicate				



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GLYCOLS BY GC-FID (WATER)

BV Labs ID		QQZ443	QQZ444	QQZ445		QQZ446		QQZ447	QQZ448		
Sampling Date		2021/09/10 17:15	2021/09/10 17:27	2021/09/10 17:20		2021/09/10 17:35		2021/09/11 17:45	2021/09/11 18:10		
COC Number		407011	407011	407011		407011		407011	407011		
	UNITS	ST-KM103.5	ST-KM103.3	ST-KM103.2	RDL	ST-KM103.1	RDL	ST-KM103.5	ST-KM103.2	RDL	QC Batch
Glycols											
Propylene Glycol	mg/L	<5	<5	<5	5	<300	300	<5	<5	5	7583122
Ethylene Glycol	mg/L	<5	417	199	5	14300	300	<5	74	5	7583122
Diethylene Glycol	mg/L	<5	<5	<5	5	<300	300	<5	<5	5	7583122
Total Glycol	mg/L	<5	417	199	5	14300	300	<5	74	5	7583122
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											

BV Labs ID		QQZ449		
Sampling Date		2021/09/12 17:50		
COC Number		407011		
	UNITS	ST-KM103.5	RDL	QC Batch
Glycols				
Propylene Glycol	mg/L	<5	5	7583122
Ethylene Glycol	mg/L	<5	5	7583122
Diethylene Glycol	mg/L	<5	5	7583122
Total Glycol	mg/L	<5	5	7583122
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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PETROLEUM HYDROCARBONS (CCME)

BV Labs ID		QQZ443	QQZ444	QQZ445	QQZ446	QQZ447	QQZ448	QQZ449		
Sampling Date		2021/09/10 17:15	2021/09/10 17:27	2021/09/10 17:20	2021/09/10 17:35	2021/09/11 17:45	2021/09/11 18:10	2021/09/12 17:50		
COC Number		407011	407011	407011	407011	407011	407011	407011		
	UNITS	ST-KM103.5	ST-KM103.3	ST-KM103.2	ST-KM103.1	ST-KM103.5	ST-KM103.2	ST-KM103.5	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/L	<0.20	<0.20	<0.20	0.22	<0.20	<0.20	<0.20	0.20	7581867
Toluene	ug/L	<0.20	<0.20	<0.20	0.57	<0.20	<0.20	<0.20	0.20	7581867
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7581867
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7581867
p+m-Xylene	ug/L	<0.40	<0.40	<0.40	0.82	<0.40	<0.40	<0.40	0.40	7581867
Total Xylenes	ug/L	<0.40	<0.40	<0.40	0.82	<0.40	<0.40	<0.40	0.40	7581867
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	100	100	98	100	100	97	98		7581867
4-Bromofluorobenzene	%	94	88	100	103	93	100	97		7581867
D10-o-Xylene	%	113	107	112	118	115	112	109		7581867
D4-1,2-Dichloroethane	%	100	97	99	96	95	100	98		7581867
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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TEST SUMMARY

BV Labs ID: QQZ443
Sample ID: ST-KM103.5
Matrix: Water

Collected: 2021/09/10
Shipped:
Received: 2021/09/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7581867	N/A	2021/09/17	Anca Ganea
Glycols in Water by GC/FID	GC/FID	7583122	N/A	2021/09/17	Anca Ganea
Elements by CRC ICPMS (total)	ICP/MS	7591098	2021/09/20	2021/09/21	Sahar Omar Al-Abdalla
Total Ammonia-N	LACH/NH4	7582158	N/A	2021/09/17	Viorica Rotaru
Total Oil and Grease	BAL	7582319	2021/09/16	2021/09/17	Saumya Modh
Low Level Total Suspended Solids	BAL	7581393	2021/09/16	2021/09/17	Sandeep Kaur

BV Labs ID: QQZ444
Sample ID: ST-KM103.3
Matrix: Water

Collected: 2021/09/10
Shipped:
Received: 2021/09/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7581867	N/A	2021/09/17	Anca Ganea
Glycols in Water by GC/FID	GC/FID	7583122	N/A	2021/09/17	Anca Ganea
Elements by CRC ICPMS (total)	ICP/MS	7591098	2021/09/20	2021/09/21	Sahar Omar Al-Abdalla
Total Ammonia-N	LACH/NH4	7582158	N/A	2021/09/17	Viorica Rotaru
Total Oil and Grease	BAL	7582319	2021/09/16	2021/09/17	Saumya Modh
Low Level Total Suspended Solids	BAL	7581393	2021/09/16	2021/09/17	Sandeep Kaur

BV Labs ID: QQZ445
Sample ID: ST-KM103.2
Matrix: Water

Collected: 2021/09/10
Shipped:
Received: 2021/09/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7581867	N/A	2021/09/17	Anca Ganea
Glycols in Water by GC/FID	GC/FID	7583122	N/A	2021/09/17	Anca Ganea
Elements by CRC ICPMS (total)	ICP/MS	7591098	2021/09/20	2021/09/21	Sahar Omar Al-Abdalla
Total Ammonia-N	LACH/NH4	7582158	N/A	2021/09/17	Viorica Rotaru
Total Oil and Grease	BAL	7582319	2021/09/16	2021/09/17	Saumya Modh
Low Level Total Suspended Solids	BAL	7581393	2021/09/16	2021/09/17	Sandeep Kaur

BV Labs ID: QQZ446
Sample ID: ST-KM103.1
Matrix: Water

Collected: 2021/09/10
Shipped:
Received: 2021/09/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7581867	N/A	2021/09/17	Anca Ganea
Glycols in Water by GC/FID	GC/FID	7583122	N/A	2021/09/17	Anca Ganea
Elements by CRC ICPMS (total)	ICP/MS	7591098	2021/09/20	2021/09/21	Sahar Omar Al-Abdalla
Total Ammonia-N	LACH/NH4	7582158	N/A	2021/09/17	Viorica Rotaru
Total Oil and Grease	BAL	7582319	2021/09/16	2021/09/17	Saumya Modh
Low Level Total Suspended Solids	BAL	7581393	2021/09/16	2021/09/17	Sandeep Kaur



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TEST SUMMARY

BV Labs ID: QQZ447
Sample ID: ST-KM103.5
Matrix: Water

Collected: 2021/09/11
Shipped:
Received: 2021/09/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7581867	N/A	2021/09/17	Anca Ganea
Glycols in Water by GC/FID	GC/FID	7583122	N/A	2021/09/17	Anca Ganea
Elements by CRC ICPMS (total)	ICP/MS	7591098	2021/09/20	2021/09/21	Sahar Omar Al-Abdalla
Total Ammonia-N	LACH/NH4	7582158	N/A	2021/09/17	Viorica Rotaru
Total Oil and Grease	BAL	7582319	2021/09/16	2021/09/17	Saumya Modh
Low Level Total Suspended Solids	BAL	7581393	2021/09/16	2021/09/17	Sandeep Kaur

BV Labs ID: QQZ448
Sample ID: ST-KM103.2
Matrix: Water

Collected: 2021/09/11
Shipped:
Received: 2021/09/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7581867	N/A	2021/09/17	Anca Ganea
Glycols in Water by GC/FID	GC/FID	7583122	N/A	2021/09/17	Anca Ganea
Elements by CRC ICPMS (total)	ICP/MS	7591098	2021/09/20	2021/09/21	Sahar Omar Al-Abdalla
Total Ammonia-N	LACH/NH4	7582158	N/A	2021/09/17	Viorica Rotaru
Total Oil and Grease	BAL	7582319	2021/09/16	2021/09/17	Saumya Modh
Low Level Total Suspended Solids	BAL	7581393	2021/09/16	2021/09/17	Sandeep Kaur

BV Labs ID: QQZ449
Sample ID: ST-KM103.5
Matrix: Water

Collected: 2021/09/12
Shipped:
Received: 2021/09/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7581867	N/A	2021/09/17	Anca Ganea
Glycols in Water by GC/FID	GC/FID	7583122	N/A	2021/09/17	Anca Ganea
Elements by CRC ICPMS (total)	ICP/MS	7591098	2021/09/20	2021/09/21	Sahar Omar Al-Abdalla
Total Ammonia-N	LACH/NH4	7582158	N/A	2021/09/17	Viorica Rotaru
Total Oil and Grease	BAL	7582319	2021/09/16	2021/09/17	Saumya Modh
Low Level Total Suspended Solids	BAL	7582404	2021/09/16	2021/09/17	Sandeep Kaur

BV Labs ID: QQZ449 Dup
Sample ID: ST-KM103.5
Matrix: Water

Collected: 2021/09/12
Shipped:
Received: 2021/09/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7582158	N/A	2021/09/17	Viorica Rotaru
Low Level Total Suspended Solids	BAL	7582404	2021/09/16	2021/09/17	Sandeep Kaur



GENERAL COMMENTS

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

Package 1	12.7°C
Package 2	15.0°C
Package 3	15.7°C
Package 4	15.3°C
Package 5	14.3°C
Package 6	14.3°C
Package 7	13.0°C

Sample QQZ446 [ST-KM103.1] : GLYCOLS Analysis : Due to high concentration of target analytes, sample required dilution. Reporting limits were adjusted accordingly.

Results relate only to the items tested.



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QUALITY ASSURANCE REPORT

Agnico Eagle

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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
7581867	1,4-Difluorobenzene	2021/09/16	93	70 - 130	94	70 - 130	98	%				
7581867	4-Bromofluorobenzene	2021/09/16	112	70 - 130	110	70 - 130	96	%				
7581867	D10-o-Xylene	2021/09/16	99	70 - 130	104	70 - 130	108	%				
7581867	D4-1,2-Dichloroethane	2021/09/16	97	70 - 130	94	70 - 130	99	%				
7581393	Total Suspended Solids	2021/09/17					<1	mg/L	0	25	96	85 - 115
7581867	Benzene	2021/09/16	101	50 - 140	106	50 - 140	<0.20	ug/L	NC	30		
7581867	Ethylbenzene	2021/09/16	109	50 - 140	115	50 - 140	<0.20	ug/L	NC	30		
7581867	o-Xylene	2021/09/16	104	50 - 140	110	50 - 140	<0.20	ug/L	NC	30		
7581867	p+m-Xylene	2021/09/16	104	50 - 140	111	50 - 140	<0.40	ug/L	NC	30		
7581867	Toluene	2021/09/16	98	50 - 140	104	50 - 140	<0.20	ug/L	NC	30		
7581867	Total Xylenes	2021/09/16					<0.40	ug/L	NC	30		
7582158	Total Ammonia-N	2021/09/17	96	75 - 125	99	80 - 120	<0.050	mg/L	8.1	20		
7582319	Total Oil & Grease	2021/09/17			97	85 - 115	<0.50	mg/L	0.26	25		
7582404	Total Suspended Solids	2021/09/17					<1	mg/L	0	25	99	85 - 115
7583122	Diethylene Glycol	2021/09/17	92	60 - 140	99	60 - 140	<5	mg/L	NC	40		
7583122	Ethylene Glycol	2021/09/17	96	60 - 140	102	60 - 140	<5	mg/L	NC	40		
7583122	Propylene Glycol	2021/09/17	99	60 - 140	107	60 - 140	<5	mg/L	NC	40		
7583122	Total Glycol	2021/09/17					<5	mg/L	NC	40		
7591098	Total Arsenic (As)	2021/09/21	108	80 - 120	105	80 - 120	<0.00010	mg/L				
7591098	Total Copper (Cu)	2021/09/21	101	80 - 120	100	80 - 120	<0.00050	mg/L				
7591098	Total Lead (Pb)	2021/09/21	105	80 - 120	105	80 - 120	<0.00020	mg/L				
7591098	Total Nickel (Ni)	2021/09/21	103	80 - 120	102	80 - 120	<0.0010	mg/L				
7591098	Total Zinc (Zn)	2021/09/21	106	80 - 120	106	80 - 120	<0.0050	mg/L				

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.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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 $\leq 2 \times \text{RDL}$).



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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

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.



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**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.						