



18 December 2024

Mr. Mason Mantla
Chair - Wek'èezhii Land and Water Board
#1, 4905-48th Street
Yellowknife, NT, X1A 3S3

Jamie Steele,
Manager – Diamond Resource Management
Land & Water North Slave Region
Department of Environment and Climate Change
Government of Northwest Territories
140 Bristol Avenue, Yellowknife, NT, X1A 3T2

RE: W2022L2-0001 Spring Seepage Survey Exceedances 2024

Pursuant to Decision #3 in the Wek'èezhii Land and Water Board (WLWB) Reasons for Decisions of the Ekati Version 12.0 Waste Rock and Ore Storage Management Plan received on January 31, 2024, Burgundy Diamond Mines (Burgundy) is informing the Board and the Inspector about Seeps that exceeded Effluent Quality Criteria (EQC). Attached to this notification letter are the corresponding exceedances (Table 1). The EQC are specified in Water Licence W2022L2-0001, under Part H, Condition 26. EQC applicable to Surveillance Network Program (SNP) Station 1616-30 (Part H, Condition 26 (a)) were used in the assessment for all Seeps in the Panda/Koala, Fox, and Pigeon Waste Rock Storage Areas (WRSAs). The EQC applicable to SNP Station 1616-43 (Part H, Condition 26 (b)) were used in the assessment of the seeps in the Misery and Lynx WRSAs. For hardness dependent EQC the hardness obtained from the sample or if appropriate relevant receiving environment was used in the calculations.

The following is a summary of actions taken in response to the EQC exceedances exhibited by the Seeps monitored during the Spring 2024 Seepage Survey. Comprehensive silt curtains were installed at Seep-377, Seep-388, Seep-546 and Seep-081, which captures flow from Seep-081A. Seep-545 and Seep-530 did not have silt curtains installed because their flow was captured by the Long Lake Containment Facility (LLCF). Mitigation efforts for Seep-080 and Seep-080A will be implemented in spring 2025.



We trust this report is clear and informative. If you have any questions or comments, please contact the undersigned at jonah.kelly@burgundydiamonds.com or +1.867.880.4400 ext. 2157.

Sincerely,

Jonah Kelly
Environment Team Leader, Operations
Burgundy Diamond Mines

CC: *William Liu – Manager, Environmental Reporting & Permitting – william.liu@burgundydiamonds.com*
Richard Ehlert – Environment Team Leader, Environment Operations – richard.ehlert@burgundydiamonds.com
Tania Robitaille – Operations Advisor, Environment – tania.robitaille@burgundydiamonds.com
Regulatory Inbox – regulatory@burgundydiamonds.com

Enclosures

The following Certificates of Analysis are enclosed:

1. C445647
2. C445697
3. C445653
4. C448047
5. C448049
6. C448064
7. C448044

Table 1. Seepage Stations exceedances that were flowing during the 2024 Spring Survey.

Cell E – EQC							Misery – EQC						
Parameters	Max. Concentration of Any Grab Sample (mg/L) Cell E	Seep-530	Seep-545	Seep-355	Seep-377	Seep-388	Parameters	Max. Concentration of Any Grab Sample (mg/L) Misery	Point Lake WRSA Seepage Sump (Seep-546)	Seep-080	Seep-080A	Seep-081A	Seep-081
BV Labs Job Number		C445647	C445647	C445697	C445653	C448047	BV Labs Job Number		C448049	C448064	C448044	C448044	C448044
Date		14-June-24	14-June-24	15-Jun-24	18-Jun-24	19-Jun-24	Date		22-Jun-24	23-Jun-24	24-Jun-24	24-Jun-24	24-June-24
Hardness (CaCO3)		679	750	322	88.9	49	1616-48 Hardness (CaCO3) 67.5		46.1	128	130	203	214
pH	6–9	8.23	8.26	8.32	7.61	7.35	pH	6–9	5.94	6.82	6.91	7.3	7.37
TSS	25	4.9	9.3	3.1	39	29	TSS	25	14	4.4	<1.0	<1.0	2.1
Chloride (Cl)	502	51	50	<0.50	<0.50	1.6	Ammonia	3.4	0.41	0.091	0.065	0.27	0.57
Nitrate (N)	10.77	22	15	0.53	0.28	0.085	Chloride	813	<0.50	1.8	<0.50	3.8	3.9
Nitrite (N)	0.12	0.0068	0.0038	0.0043	0.0025	0.0013	Nitrate	16.6	1.5	0.47	0.5	7.8	7.7
Sulphate (SO4)	389	1200	1100	65	41	29	Phosphorus	0.034	<0.0020	0.0031	0.0032	0.0049	0.0073
Aluminum (Al)	0.2	<0.0030	0.0049	0.15	0.011	0.0099	Sulphate	640	44	130	130	180	190
Antimony (Sb)	0.02	0.00093	0.00075	<0.00060	<0.00060	<0.00060	Arsenic	0.017	0.0066	0.00089	0.00083	0.0013	0.0014
Arsenic (AS)	0.008	0.0072	0.006	0.014	0.0023	0.00054	Copper	0.007	0.017	0.013	0.012	0.026	0.034
Potassium (K)	103	75	82	18	6.7	4	Aluminum	0.34	4.2	0.17	0.13	0.18	0.22
Selenium (Se)	0.002	0.012	0.0097	0.0019	<0.00020	<0.00020	Cadmium	0.00028	0.00016	0.00042	0.00038	0.00067	0.00079
Strontium (Sr)	6	2.1	2.4	0.32	0.21	0.11	Chromium	0.0034	0.011	0.0011	0.0012	<0.0010	<0.0010
							Iron	1.0	3.1	0.63	0.51	0.39	0.56
							Potassium	82	2.8	5.5	5.7	12	13
							Uranium	0.033	0.00061	0.00066	0.0061	0.027	0.035
Highlighted in yellow: parameters exceeding Maximum Concentration of Any Grab Sample/EQCs Location.													
Highlighted in green: seepage sampled in spring 2024.													



BURGUNDY
DIAMOND MINES

ASX: BDM
www.burgundy-diamonds.com

Enclosures

Certificate of Analysis – Bureau Veritas Labs

Burgundy Diamond Mines Limited

Level 25, South 32 Tower, 108 St Georges Terrace, Perth WA 6000, AUSTRALIA | Ph: +61 8 6313 3945
Suite 900, 606 Fourth Street S.W., Calgary, Alberta, T2P 1T1, CANADA | Ph: +1 403 910 1933
Schupstraat 15, 2018 Antwerp, Belgium



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101486

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/08
Report #: R3524179
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C445647

Received: 2024/06/20, 09:50

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity pH 4.5 & pH 8.3 (as CaCO ₃)	3	N/A	2024/06/25	AB SOP-00005	SM 24 2310 B m
Alkalinity - Low Level	3	N/A	2024/06/26	AB SOP-00005	SM 24 2320 B m
Low level chloride/sulphate by AC	3	N/A	2024/06/25	AB SOP-00020	SM24-4500-Cl/SO ₄ -E m
Conductance - Low Level	3	N/A	2024/06/26	AB SOP-00005	SM 24 2510 B m
Fluoride - Low Level	3	N/A	2024/06/26	AB SOP-00005	SM 24 4500-F C m
Hardness Total (calculated as CaCO ₃) (2)	3	N/A	2024/06/28	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (3)	1	2024/06/25	2024/06/25	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV (3)	2	2024/06/26	2024/06/27	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	3	2024/06/25	2024/06/26	AB SOP-00084	BCMOE BCLM Oct2013 m
Elements by ICP - Dissolved (3)	3	N/A	2024/06/25	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	2	2024/06/26	2024/06/26	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	1	2024/06/26	2024/06/27	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS - Dissolved (3)	3	N/A	2024/06/23	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total	3	2024/06/26	2024/06/27	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	3	N/A	2024/06/25	AB SOP-00007	SM 24 4500 NH ₃ A G m
Nitrate + Nitrite-N (calculated) Low Lev	3	N/A	2024/06/27		Auto Calc
Nitrogen (Nitrite - Nitrate) Low Level	3	N/A	2024/06/25	AB SOP-00023	SM 24 4110 B m
pH @25°C (4)	3	N/A	2024/06/26	AB SOP-00005	SM 24 4500-H+B m
pH (Field)	3	N/A	2024/06/20	Field Test	Field Test
Orthophosphate LL by Automated Analyzer (5)	1	N/A	2024/06/24	AB SOP-00025	SM 24 4500-P A, F m
Orthophosphate LL by Automated Analyzer (5)	2	N/A	2024/06/25	AB SOP-00025	SM 24 4500-P A, F m
Sulphate (SO ₄) by IC	3	N/A	2024/06/25	AB SOP-00026	SM 24 4110 B m
Hydrocarbons (C10-C30) in Water - GC/FID (6)	2	2024/06/21	2024/06/21	CAL SOP-00239	BCMOE EPH W 09/17
Temperature (Field)	3	N/A	2024/06/20	Field Test	Field Test
Total Kjeldahl Nitrogen (Total)	3	N/A	2024/06/27	BBY WI-00033	Auto Calc
Nitrogen (Total)	1	2024/06/24	2024/06/25	AB SOP-00093	SM 24 4500-N C m
Nitrogen (Total)	2	2024/06/24	2024/06/26	AB SOP-00093	SM 24 4500-N C m
Carbon (Total Organic) (7)	3	N/A	2024/06/24	AB SOP-00087	MMCW 119 1996 m
Total Phosphorus Low Level Dissolved (8)	3	2024/06/25	2024/06/27	AB SOP-00024	SM 24 4500-P A,B,F m



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101486

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/08
Report #: R3524179
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C445647

Received: 2024/06/20, 09:50

Sample Matrix: Water
Samples Received: 3

Analyses	Date		Date		Laboratory Method	Analytical Method
	Quantity	Extracted	Analyzed			
Total Phosphorus Low Level Total	1	2024/06/25	2024/06/25	AB SOP-00024		SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	1	2024/06/25	2024/06/26	AB SOP-00024		SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	1	2024/06/26	2024/06/26	AB SOP-00024		SM 24 4500-P A,B,F m
TPH (C5-C30) Water Calc	2	N/A	2024/06/24			
Total Suspended Solids (NFR)	3	2024/06/21	2024/06/21	AB SOP-00061		SM 24 2540 D m
Turbidity	3	N/A	2024/06/21	CAL SOP-00081		SM 24 2130 B m
Volatile HC-BTEX (9)	2	2024/06/20	2024/06/24			Auto Calc
BTEX/MTBE/Styrene/VPH in Water GC/MS/FID	2	2024/06/21	2024/06/24	CAL SOP-00240		BC MELP VH 2017
Ion Balance (10)	3	N/A	2024/06/28			
Total Dissolved Solids (Calculated) (10)	3	N/A	2024/06/28			
Radium Isotopes by Alpha Spectrometry (1, 11)	2	N/A	2024/07/05	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032		Alpha Spectrometry

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, EPA, APHA or the Quebec Ministry of Environment.

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.

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



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101486

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/08
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CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C445647

Received: 2024/06/20, 09:50

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 Kitimat, 6790 Kitimat Rd., Unit 4, Mississauga, Ontario, L5N 5L9
- (2) "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).
- (3) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
- (5) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (6) Sample(s) analyzed using methodologies that have been subjected to Bureau Veritas's standard validation process for the submitted matrix however it is not an accredited method.
- (7) TOC present in the sample should be considered as non-purgeable TOC.
- (8) Dissolved Phosphorus > Total Phosphorus Imbalance: When applicable, Dissolved Phosphorus and Total Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (9) VPH = VH - (Benzene + Toluene + Ethylbenzene + m & p-Xylene + o-Xylene + Styrene)
- (10) Calculation was conducted as per client request using CAL PDF-00333.
- (11) Radium-226 results have not been corrected for blanks.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Geraldlyn Gouthro, Key Account Specialist
Email: geraldlyn.gouthro@bureauveritas.com
Phone# (403) 291-3077

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This report has been generated and distributed using a secure automated process.

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C445647

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPS113			CPS114			CPS115		
Sampling Date		2024/06/14 15:12			2024/06/14 12:21			2024/06/14 15:50		
COC Number		101486			101486			101486		
	UNITS	SEEP-530	RDL	QC Batch	SEEP-544	RDL	QC Batch	SEEP-545	RDL	QC Batch
RADIONUCLIDE										
Radium 226	Bq/l	<0.010	0.010	B430424				<0.010	0.010	B430424
Calculated Parameters										
Total Hardness (CaCO ₃)	mg/L	679	0.50	B410577	158	0.50	B410577	750	0.50	B410577
Calculated Ion Balance (% Difference)	%	4.3		B410610	2.0		B410610	4.1		B410610
Nitrate plus Nitrite (N)	mg/L	22	0.010	B410591	0.89	0.0022	B410591	15	0.010	B410591
Calculated Total Dissolved Solids	mg/L	2000	6.1	B410615	240	1.7	B410615	1900	6.1	B410615
Total Total Kjeldahl Nitrogen (Calc)	mg/L	2.60	0.40	B410811	0.138	0.020	B410811	9.41	0.40	B410811
Field Parameters										
Field pH	pH	8.48	N/A	ONSITE	8.04	N/A	ONSITE	8.47	N/A	ONSITE
Field Temperature (Fd)	deg. C	0.7	N/A	ONSITE	0.5	N/A	ONSITE	0.9	N/A	ONSITE
Misc. Inorganics										
Fluoride (F)	mg/L	0.038	0.010	B416167	0.119	0.010	B416176	0.041	0.010	B416167
pH	pH	8.23	N/A	B416163	7.83	N/A	B416174	8.26	N/A	B416163
Acidity (pH 4.5)	mg/L	<1.0	1.0	B416043	<1.0	1.0	B416043	<1.0	1.0	B416043
Alkalinity (Total as CaCO ₃)	mg/L	117	0.50	B416156	80.3	0.50	B416171	114	0.50	B416156
Total Organic Carbon (C)	mg/L	3.8	0.20	B414850	1.7	0.20	B414850	4.1	0.20	B414850
Acidity (pH 8.3)	mg/L	<1.0	1.0	B416043	1.3	1.0	B416043	<1.0	1.0	B416043
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	B416156	<0.50	0.50	B416171	<0.50	0.50	B416156
Bicarbonate (HCO ₃)	mg/L	143	0.50	B416156	98.0	0.50	B416171	139	0.50	B416156
Carbonate (CO ₃)	mg/L	<0.50	0.50	B416156	<0.50	0.50	B416171	<0.50	0.50	B416156
Hydroxide (OH)	mg/L	<0.50	0.50	B416156	<0.50	0.50	B416171	<0.50	0.50	B416156
Total Suspended Solids	mg/L	4.9	1.0	B410868	14	1.0	B410868	9.3	1.0	B410868
Anions										
Orthophosphate (P)	mg/L	0.019	0.0010	B415114	0.010	0.0010	B415636	0.020	0.0010	B415636
Chloride (Cl)	mg/L	51	0.50	B415781	1.3	0.50	B415781	50	0.50	B415781
Dissolved-Low Level Sulphate (SO ₄)	mg/L	1200	6.0	B415721	110	1.5	B415721	1100	6.0	B415721
Nutrients										
Dissolved Phosphorus (P)	mg/L	0.014	0.0020	B415371	0.0077 (1)	0.0020	B415371	0.013	0.0020	B415371
Total Phosphorus (P)	mg/L	0.033	0.0020	B416943	0.013	0.0020	B416943	0.035	0.0020	B415335
Total Ammonia (N)	mg/L	<0.0050	0.0050	B415289	<0.0050	0.0050	B415284	<0.0050	0.0050	B415289
RDL = Reportable Detection Limit										
N/A = Not Applicable										
(1) Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.										



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPS113			CPS114			CPS115		
Sampling Date		2024/06/14 15:12			2024/06/14 12:21			2024/06/14 15:50		
COC Number		101486			101486			101486		
	UNITS	SEEP-530	RDL	QC Batch	SEEP-544	RDL	QC Batch	SEEP-545	RDL	QC Batch
Nitrite (N)	mg/L	0.0068	0.0010	B415689	0.0028	0.0010	B415689	0.0038	0.0010	B415689
Nitrate (N)	mg/L	22	0.010	B415689	0.89	0.0020	B415689	15	0.010	B415689
Total Nitrogen (N)	mg/L	25 (1)	0.40	B416158	1.0	0.020	B414074	25 (1)	0.40	B416158
Physical Properties										
Conductivity	uS/cm	2550	1.0	B416164	394	1.0	B416175	2520	1.0	B416164
Physical Properties										
Turbidity - NTU	NTU	31	0.10	B411218	5.7	0.10	B411218	37	0.10	B411218
RDL = Reportable Detection Limit										
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.										



MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID		CPS113		CPS114		CPS115		
Sampling Date		2024/06/14 15:12		2024/06/14 12:21		2024/06/14 15:50		
COC Number		101486		101486		101486		
	UNITS	SEEP-530	QC Batch	SEEP-544	QC Batch	SEEP-545	RDL	QC Batch
Elements								
Dissolved Mercury (Hg)	mg/L	<0.0000019	B415632	<0.0000019	B417044	<0.0000019	0.0000019	B417044
Total Mercury (Hg)	mg/L	<0.0000019	B415605	<0.0000019	B415605	<0.0000019	0.0000019	B415895
RDL = Reportable Detection Limit								



BUREAU
VERITAS

Bureau Veritas Job #: C445647

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CPS113	CPS114		CPS115		
Sampling Date		2024/06/14 15:12	2024/06/14 12:21		2024/06/14 15:50		
COC Number		101486	101486		101486		
	UNITS	SEEP-530	SEEP-544	QC Batch	SEEP-545	RDL	QC Batch
Elements							
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0089	B412920	0.0049	0.0030	B412920
Total Aluminum (Al)	mg/L	1.9	0.25	B417512	1.8	0.0030	B417189
Dissolved Antimony (Sb)	mg/L	0.00063	<0.00060	B412920	0.00065	0.00060	B412920
Total Antimony (Sb)	mg/L	0.00093	<0.00060	B417512	0.00075	0.00060	B417189
Dissolved Arsenic (As)	mg/L	0.0059	0.0012	B412920	0.0058	0.00020	B412920
Total Arsenic (As)	mg/L	0.0072	0.0014	B417512	0.0060	0.00020	B417189
Dissolved Barium (Ba)	mg/L	0.020	0.044	B415178	0.020	0.010	B415178
Total Barium (Ba)	mg/L	0.030	0.050	B417516	0.037	0.010	B417196
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B412920	<0.0010	0.0010	B412920
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B417512	<0.0010	0.0010	B417189
Dissolved Boron (B)	mg/L	0.043	<0.020	B415178	0.046	0.020	B415178
Total Boron (B)	mg/L	0.043	0.021	B417516	0.049	0.020	B417196
Dissolved Cadmium (Cd)	mg/L	0.00010	<0.000020	B412920	0.000090	0.000020	B412920
Total Cadmium (Cd)	mg/L	0.00017	<0.000020	B417512	0.000062	0.000020	B417189
Dissolved Calcium (Ca)	mg/L	87	33	B415178	88	0.30	B415178
Total Calcium (Ca)	mg/L	87	33	B417516	96	0.30	B417196
Dissolved Chromium (Cr)	mg/L	0.0012	<0.0010	B412920	0.0012	0.0010	B412920
Total Chromium (Cr)	mg/L	0.013	0.0013	B417512	0.012	0.0010	B417189
Dissolved Cobalt (Co)	mg/L	0.00030	<0.00030	B412920	<0.00030	0.00030	B412920
Total Cobalt (Co)	mg/L	0.0061	0.00035	B417512	0.0054	0.00030	B417189
Dissolved Copper (Cu)	mg/L	0.0019	0.0023	B412920	0.0019	0.0010	B412920
Total Copper (Cu)	mg/L	0.0055	0.0028	B417512	0.0050	0.0010	B417189
Dissolved Iron (Fe)	mg/L	<0.060	<0.060	B415178	<0.060	0.060	B415178
Total Iron (Fe)	mg/L	2.1	0.30	B417516	2.7	0.060	B417196
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B412920	<0.00020	0.00020	B412920
Total Lead (Pb)	mg/L	0.00075	<0.00020	B417512	0.0010	0.00020	B417189
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B415178	<0.020	0.020	B415178
Total Lithium (Li)	mg/L	0.021	0.021	B417516	<0.020	0.020	B417196
Dissolved Magnesium (Mg)	mg/L	110	19	B415178	110	0.20	B415178
Total Magnesium (Mg)	mg/L	110	19	B417516	120	0.20	B417196
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0044	B415178	<0.0040	0.0040	B415178
Total Manganese (Mn)	mg/L	0.033	0.0080	B417516	0.043	0.0040	B417196
RDL = Reportable Detection Limit							



BUREAU
VERITAS

Bureau Veritas Job #: C445647

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CPS113	CPS114		CPS115		
Sampling Date		2024/06/14 15:12	2024/06/14 12:21		2024/06/14 15:50		
COC Number		101486	101486		101486		
	UNITS	SEEP-530	SEEP-544	QC Batch	SEEP-545	RDL	QC Batch
Dissolved Molybdenum (Mo)	mg/L	0.57	0.019	B412920	0.56	0.00020	B412920
Total Molybdenum (Mo)	mg/L	0.65	0.018	B417512	0.54	0.00020	B417189
Dissolved Nickel (Ni)	mg/L	0.010	0.0036	B412920	0.0098	0.00050	B412920
Total Nickel (Ni)	mg/L	0.11	0.0060	B417512	0.096	0.00050	B417189
Dissolved Potassium (K)	mg/L	75	11	B415178	77	0.30	B415178
Total Potassium (K)	mg/L	75	11	B417516	82	0.30	B417196
Dissolved Selenium (Se)	mg/L	0.010	0.00040	B412920	0.010	0.00020	B412920
Total Selenium (Se)	mg/L	0.012	0.00041	B417512	0.0097	0.00020	B417189
Dissolved Silicon (Si)	mg/L	8.5	3.4	B415178	8.7	0.50	B415178
Total Silicon (Si)	mg/L	19	4.3	B417516	22	0.50	B417196
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B412920	<0.00010	0.00010	B412920
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B417512	<0.00010	0.00010	B417189
Dissolved Sodium (Na)	mg/L	280	9.1	B415178	290	0.50	B415178
Total Sodium (Na)	mg/L	300	9.7	B417516	320	0.50	B417196
Dissolved Strontium (Sr)	mg/L	2.1	0.25	B415178	2.1	0.020	B415178
Total Strontium (Sr)	mg/L	2.1	0.26	B417516	2.4	0.020	B417196
Dissolved Sulphur (S)	mg/L	320	32	B415178	330	0.20	B415178
Total Sulphur (S)	mg/L	350	35	B417516	370	0.20	B417196
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B412920	<0.00020	0.00020	B412920
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B417512	<0.00020	0.00020	B417189
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B412920	<0.0010	0.0010	B412920
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B417512	<0.0010	0.0010	B417189
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B412920	0.0012	0.0010	B412920
Total Titanium (Ti)	mg/L	0.037	0.022	B417512	0.031	0.0010	B417189
Dissolved Uranium (U)	mg/L	0.013	0.013	B412920	0.013	0.00010	B412920
Total Uranium (U)	mg/L	0.015	0.013	B417512	0.012	0.00010	B417189
Dissolved Vanadium (V)	mg/L	0.0059	0.0011	B412920	0.0065	0.0010	B412920
Total Vanadium (V)	mg/L	0.0092	0.0016	B417512	0.0075	0.0010	B417189
Dissolved Zinc (Zn)	mg/L	<0.0030	<0.0030	B412920	<0.0030	0.0030	B412920
Total Zinc (Zn)	mg/L	0.0047	<0.0030	B417512	0.0053	0.0030	B417189
RDL = Reportable Detection Limit							



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VERITAS

Bureau Veritas Job #: C445647

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

TOTAL PETROLEUM HYDROCARBONS (WATER)

Bureau Veritas ID		CPS113	CPS115		
Sampling Date		2024/06/14 15:12	2024/06/14 15:50		
COC Number		101486	101486		
	UNITS	SEEP-530	SEEP-545	RDL	QC Batch
Hydrocarbons					
Total Extractables C10 to C30	mg/L	<0.20	<0.20	0.20	B410320
Total hydrocarbons C5-C30	mg/L	<0.22	<0.22	0.22	B409350
Surrogate Recovery (%)					
O-TERPHENYL (sur.)	%	103	102		B410320
RDL = Reportable Detection Limit					



VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		CPS113	CPS115		
Sampling Date		2024/06/14 15:12	2024/06/14 15:50		
COC Number		101486	101486		
	UNITS	SEEP-530	SEEP-545	RDL	QC Batch
Volatiles					
LH (C5-C10)	mg/L	<0.10	<0.10	0.10	B411413
Xylenes (Total)	mg/L	<0.00057	<0.00057	0.00057	B410108
VH C6-C10	mg/L	<0.14	<0.14	0.14	B410108
VPH (VH6 to 10 - BTEX)	mg/L	<0.14	<0.14	0.14	B410108
Benzene	mg/L	<0.00040	<0.00040	0.00040	B411413
Toluene	mg/L	<0.00040	<0.00040	0.00040	B411413
Ethylbenzene	mg/L	<0.00040	<0.00040	0.00040	B411413
m & p-Xylene	mg/L	<0.00040	<0.00040	0.00040	B411413
o-Xylene	mg/L	<0.00040	<0.00040	0.00040	B411413
Styrene	mg/L	<0.00040	<0.00040	0.00040	B411413
Surrogate Recovery (%)					
1,4-Difluorobenzene (sur.)	%	103	104		B411413
4-Bromofluorobenzene (sur.)	%	106	107		B411413
D4-1,2-Dichloroethane (sur.)	%	106	109		B411413
RDL = Reportable Detection Limit					



GENERAL COMMENTS

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

Package 1	3.4°C
Package 2	3.4°C
Package 3	3.2°C
Package 4	4.2°C
Package 5	4.6°C
Package 6	2.7°C
Package 7	4.7°C
Package 8	2.8°C
Package 9	5.3°C
Package 10	4.3°C
Package 11	2.5°C
Package 12	3.0°C
Package 13	5.1°C
Package 14	2.4°C

Sample CPS113 [SEEP-530] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level.

Sample CPS114 [SEEP-544] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level.

Sample CPS115 [SEEP-545] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level.

Results relate only to the items tested.

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Bureau Veritas Job #: C445647

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B410320	O-TERPHENYL (sur.)	2024/06/21	113	60 - 140	102	60 - 140	90	%				
B411413	1,4-Difluorobenzene (sur.)	2024/06/24	101	70 - 130	102	70 - 130	102	%				
B411413	4-Bromofluorobenzene (sur.)	2024/06/24	102	70 - 130	101	70 - 130	105	%				
B411413	D4-1,2-Dichloroethane (sur.)	2024/06/24	122	70 - 130	112	70 - 130	109	%				
B410320	Total Extractables C10 to C30	2024/06/21	103	60 - 140	96	70 - 130	<0.20	mg/L	NC	30		
B410868	Total Suspended Solids	2024/06/21	NC	80 - 120	90	80 - 120	<1.0	mg/L				
B411218	Turbidity - NTU	2024/06/21			99	80 - 120	<0.10	NTU	2.6	20		
B411413	Benzene	2024/06/24	104	50 - 140	109	60 - 130	<0.00040	mg/L	NC	30		
B411413	Ethylbenzene	2024/06/24	96	50 - 140	100	60 - 130	<0.00040	mg/L	NC	30		
B411413	LH (C5-C10)	2024/06/24					<0.10	mg/L				
B411413	m & p-Xylene	2024/06/24	91	50 - 140	93	60 - 130	<0.00040	mg/L	NC	30		
B411413	o-Xylene	2024/06/24	92	50 - 140	93	60 - 130	<0.00040	mg/L	NC	30		
B411413	Styrene	2024/06/24	108	50 - 140	110	60 - 130	<0.00040	mg/L	NC	40		
B411413	Toluene	2024/06/24	96	50 - 140	97	60 - 130	<0.00040	mg/L	NC	30		
B412920	Dissolved Aluminum (Al)	2024/06/23	86	80 - 120	129 (1)	80 - 120	<0.0030	mg/L	NC	20		
B412920	Dissolved Antimony (Sb)	2024/06/23	97	80 - 120	100	80 - 120	<0.00060	mg/L	5.1	20		
B412920	Dissolved Arsenic (As)	2024/06/23	99	80 - 120	102	80 - 120	<0.00020	mg/L	2.1	20		
B412920	Dissolved Beryllium (Be)	2024/06/23	96	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
B412920	Dissolved Cadmium (Cd)	2024/06/23	99	80 - 120	99	80 - 120	<0.000020	mg/L	4.1	20		
B412920	Dissolved Chromium (Cr)	2024/06/23	96	80 - 120	101	80 - 120	<0.0010	mg/L	5.9	20		
B412920	Dissolved Cobalt (Co)	2024/06/23	96	80 - 120	101	80 - 120	<0.00030	mg/L	0.57	20		
B412920	Dissolved Copper (Cu)	2024/06/23	93	80 - 120	102	80 - 120	<0.0010	mg/L	6.5	20		
B412920	Dissolved Lead (Pb)	2024/06/23	93	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20		
B412920	Dissolved Molybdenum (Mo)	2024/06/23	NC	80 - 120	102	80 - 120	<0.00020	mg/L	3.4	20		
B412920	Dissolved Nickel (Ni)	2024/06/23	94	80 - 120	101	80 - 120	<0.00050	mg/L	1.1	20		
B412920	Dissolved Selenium (Se)	2024/06/23	98	80 - 120	101	80 - 120	<0.00020	mg/L	2.8	20		
B412920	Dissolved Silver (Ag)	2024/06/23	94	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20		
B412920	Dissolved Thallium (Tl)	2024/06/23	95	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20		
B412920	Dissolved Tin (Sn)	2024/06/23	102	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
B412920	Dissolved Titanium (Ti)	2024/06/23	99	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
B412920	Dissolved Uranium (U)	2024/06/23	98	80 - 120	103	80 - 120	<0.00010	mg/L	1.5	20		
B412920	Dissolved Vanadium (V)	2024/06/23	102	80 - 120	99	80 - 120	<0.0010	mg/L	1.3	20		
B412920	Dissolved Zinc (Zn)	2024/06/23	94	80 - 120	111	80 - 120	<0.0030	mg/L	NC	20		

BUREAU
VERITAS

Bureau Veritas Job #: C445647

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B414074	Total Nitrogen (N)	2024/06/25	NC	80 - 120	104	80 - 120	<0.020	mg/L	0.011	20	106	80 - 120
B414850	Total Organic Carbon (C)	2024/06/24	109	80 - 120	108	80 - 120	<0.20	mg/L	7.2	20		
B415114	Orthophosphate (P)	2024/06/24	94	80 - 120	95	80 - 120	<0.0010	mg/L	5.3	20		
B415178	Dissolved Barium (Ba)	2024/06/25	95	80 - 120	94	80 - 120	<0.010	mg/L	8.2	20		
B415178	Dissolved Boron (B)	2024/06/25	102	80 - 120	100	80 - 120	<0.020	mg/L	NC	20		
B415178	Dissolved Calcium (Ca)	2024/06/25	100	80 - 120	99	80 - 120	<0.30	mg/L	0.17	20		
B415178	Dissolved Iron (Fe)	2024/06/25	100	80 - 120	100	80 - 120	<0.060	mg/L	NC	20		
B415178	Dissolved Lithium (Li)	2024/06/25	102	80 - 120	103	80 - 120	<0.020	mg/L	NC	20		
B415178	Dissolved Magnesium (Mg)	2024/06/25	103	80 - 120	102	80 - 120	<0.20	mg/L	0.50	20		
B415178	Dissolved Manganese (Mn)	2024/06/25	103	80 - 120	104	80 - 120	<0.0040	mg/L	NC	20		
B415178	Dissolved Potassium (K)	2024/06/25	99	80 - 120	98	80 - 120	<0.30	mg/L	0.93	20		
B415178	Dissolved Silicon (Si)	2024/06/25	89	80 - 120	92	80 - 120	<0.50	mg/L	0.71	20		
B415178	Dissolved Sodium (Na)	2024/06/25	102	80 - 120	100	80 - 120	<0.50	mg/L	0.69	20		
B415178	Dissolved Strontium (Sr)	2024/06/25	93	80 - 120	92	80 - 120	<0.020	mg/L	0.22	20		
B415178	Dissolved Sulphur (S)	2024/06/25	96	80 - 120	94	80 - 120	<0.20	mg/L	0.86	20		
B415284	Total Ammonia (N)	2024/06/25	103	80 - 120	109	80 - 120	<0.0050	mg/L	NC	20		
B415289	Total Ammonia (N)	2024/06/25	102	80 - 120	109	80 - 120	<0.0050	mg/L	1.4	20		
B415335	Total Phosphorus (P)	2024/06/26	100	80 - 120	94	80 - 120	<0.0010	mg/L	11	20	90	N/A
B415371	Dissolved Phosphorus (P)	2024/06/27	103	80 - 120	97	80 - 120	<0.0010	mg/L	3.0	20	93	80 - 120
B415605	Total Mercury (Hg)	2024/06/26	96	80 - 120	99	80 - 120	<0.0000019	mg/L	NC	20		
B415632	Dissolved Mercury (Hg)	2024/06/25	81	80 - 120	89	80 - 120	<0.0000019	mg/L	NC	20		
B415636	Orthophosphate (P)	2024/06/25	90	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
B415689	Nitrate (N)	2024/06/25	105	80 - 120	101	80 - 120	0.0023, RDL=0.0020 (2)	mg/L	NC	20		
B415689	Nitrite (N)	2024/06/25	106	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B415721	Dissolved-Low Level Sulphate (SO4)	2024/06/25	102	80 - 120	100	80 - 120	<0.050	mg/L	NC	20		
B415781	Chloride (Cl)	2024/06/25	103	80 - 120	104	80 - 120	<0.50	mg/L	0.31	20		
B415895	Total Mercury (Hg)	2024/06/26	99	80 - 120	95	80 - 120	<0.0000019	mg/L	5.0	20		
B416043	Acidity (pH 4.5)	2024/06/25					<1.0	mg/L	NC	20		
B416043	Acidity (pH 8.3)	2024/06/25			97	80 - 120	<1.0	mg/L	NC	20		
B416156	Alkalinity (PP as CaCO3)	2024/06/26					<0.50	mg/L	NC	20		

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VERITAS

Bureau Veritas Job #: C445647

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B416156	Alkalinity (Total as CaCO ₃)	2024/06/26			99	80 - 120	0.56, RDL=0.50 (2)	mg/L	0.47	20		
B416156	Bicarbonate (HCO ₃)	2024/06/26					0.69, RDL=0.50 (2)	mg/L	0.47	20		
B416156	Carbonate (CO ₃)	2024/06/26					<0.50	mg/L	NC	20		
B416156	Hydroxide (OH)	2024/06/26					<0.50	mg/L	NC	20		
B416158	Total Nitrogen (N)	2024/06/26	105	80 - 120	101	80 - 120	<0.020	mg/L	0.11	20	102	80 - 120
B416163	pH	2024/06/26			101	97 - 103			0.30	N/A		
B416164	Conductivity	2024/06/26			100	90 - 110	<1.0	uS/cm	0.22	20		
B416167	Fluoride (F)	2024/06/26	101	80 - 120	101	80 - 120	<0.010	mg/L	3.4	20		
B416171	Alkalinity (PP as CaCO ₃)	2024/06/26					<0.50	mg/L	NC	20		
B416171	Alkalinity (Total as CaCO ₃)	2024/06/26			100	80 - 120	<0.50	mg/L	1.3	20		
B416171	Bicarbonate (HCO ₃)	2024/06/26					<0.50	mg/L	1.3	20		
B416171	Carbonate (CO ₃)	2024/06/26					<0.50	mg/L	NC	20		
B416171	Hydroxide (OH)	2024/06/26					<0.50	mg/L	NC	20		
B416174	pH	2024/06/26			101	97 - 103			0.88	N/A		
B416175	Conductivity	2024/06/26			100	90 - 110	<1.0	uS/cm	2.3	20		
B416176	Fluoride (F)	2024/06/26	97	80 - 120	100	80 - 120	<0.010	mg/L	16	20		
B416943	Total Phosphorus (P)	2024/06/26	107	80 - 120	95	80 - 120	<0.0010	mg/L	17	20	93	80 - 120
B417044	Dissolved Mercury (Hg)	2024/06/27	101	80 - 120	99	80 - 120	<0.0000019	mg/L	NC	20		
B417189	Total Aluminum (Al)	2024/06/27	92	80 - 120	95	80 - 120	<0.0030	mg/L	4.9	20		
B417189	Total Antimony (Sb)	2024/06/27	90	80 - 120	91	80 - 120	<0.00060	mg/L	4.7	20		
B417189	Total Arsenic (As)	2024/06/27	96	80 - 120	95	80 - 120	<0.00020	mg/L	2.0	20		
B417189	Total Beryllium (Be)	2024/06/27	86	80 - 120	91	80 - 120	<0.0010	mg/L	NC	20		
B417189	Total Cadmium (Cd)	2024/06/27	90	80 - 120	90	80 - 120	<0.000020	mg/L	6.7	20		
B417189	Total Chromium (Cr)	2024/06/27	91	80 - 120	90	80 - 120	<0.0010	mg/L	1.1	20		
B417189	Total Cobalt (Co)	2024/06/27	89	80 - 120	89	80 - 120	<0.00030	mg/L	2.4	20		
B417189	Total Copper (Cu)	2024/06/27	89	80 - 120	90	80 - 120	<0.0010	mg/L	0.38	20		
B417189	Total Lead (Pb)	2024/06/27	87	80 - 120	89	80 - 120	<0.00020	mg/L	NC	20		
B417189	Total Molybdenum (Mo)	2024/06/27	93	80 - 120	90	80 - 120	<0.00020	mg/L	1.4	20		
B417189	Total Nickel (Ni)	2024/06/27	89	80 - 120	89	80 - 120	<0.00050	mg/L	0.26	20		
B417189	Total Selenium (Se)	2024/06/27	80	80 - 120	91	80 - 120	<0.00020	mg/L	3.7	20		
B417189	Total Silver (Ag)	2024/06/27	89	80 - 120	88	80 - 120	<0.00010	mg/L	NC	20		

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VERITAS

Bureau Veritas Job #: C445647

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B417189	Total Thallium (Tl)	2024/06/27	92	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20		
B417189	Total Tin (Sn)	2024/06/27	90	80 - 120	88	80 - 120	<0.0010	mg/L	NC	20		
B417189	Total Titanium (Ti)	2024/06/27	91	80 - 120	89	80 - 120	<0.0010	mg/L	6.3	20		
B417189	Total Uranium (U)	2024/06/27	93	80 - 120	93	80 - 120	<0.00010	mg/L	1.4	20		
B417189	Total Vanadium (V)	2024/06/27	93	80 - 120	91	80 - 120	<0.0010	mg/L	2.9	20		
B417189	Total Zinc (Zn)	2024/06/27	91	80 - 120	93	80 - 120	<0.0030	mg/L	6.2	20		
B417196	Total Barium (Ba)	2024/06/27	103	80 - 120	101	80 - 120	<0.010	mg/L	1.1	20		
B417196	Total Boron (B)	2024/06/27	98	80 - 120	99	80 - 120	<0.020	mg/L	3.6	20		
B417196	Total Calcium (Ca)	2024/06/27	105	80 - 120	103	80 - 120	<0.30	mg/L	2.2	20		
B417196	Total Iron (Fe)	2024/06/27	98	80 - 120	105	80 - 120	<0.060	mg/L	3.5	20		
B417196	Total Lithium (Li)	2024/06/27	105	80 - 120	101	80 - 120	<0.020	mg/L	NC	20		
B417196	Total Magnesium (Mg)	2024/06/27	107	80 - 120	105	80 - 120	<0.20	mg/L	3.1	20		
B417196	Total Manganese (Mn)	2024/06/27	104	80 - 120	106	80 - 120	<0.0040	mg/L	3.0	20		
B417196	Total Potassium (K)	2024/06/27	107	80 - 120	102	80 - 120	<0.30	mg/L	0.98	20		
B417196	Total Silicon (Si)	2024/06/27	97	80 - 120	100	80 - 120	<0.50	mg/L	5.4	20		
B417196	Total Sodium (Na)	2024/06/27	111	80 - 120	107	80 - 120	<0.50	mg/L	2.0	20		
B417196	Total Strontium (Sr)	2024/06/27	99	80 - 120	98	80 - 120	<0.020	mg/L	0.74	20		
B417196	Total Sulphur (S)	2024/06/27	95	80 - 120	104	80 - 120	<0.20	mg/L	3.3	20		
B417512	Total Aluminum (Al)	2024/06/27	108	80 - 120	104	80 - 120	<0.0030	mg/L	7.3	20		
B417512	Total Antimony (Sb)	2024/06/27	101	80 - 120	100	80 - 120	<0.00060	mg/L	0.64	20		
B417512	Total Arsenic (As)	2024/06/27	106	80 - 120	105	80 - 120	<0.00020	mg/L	5.4	20		
B417512	Total Beryllium (Be)	2024/06/27	104	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
B417512	Total Cadmium (Cd)	2024/06/27	107	80 - 120	104	80 - 120	<0.000020	mg/L	14	20		
B417512	Total Chromium (Cr)	2024/06/27	102	80 - 120	100	80 - 120	<0.0010	mg/L	9.1	20		
B417512	Total Cobalt (Co)	2024/06/27	102	80 - 120	102	80 - 120	<0.00030	mg/L	6.8	20		
B417512	Total Copper (Cu)	2024/06/27	102	80 - 120	103	80 - 120	<0.0010	mg/L	6.8	20		
B417512	Total Lead (Pb)	2024/06/27	102	80 - 120	102	80 - 120	<0.00020	mg/L	14	20		
B417512	Total Molybdenum (Mo)	2024/06/27	108	80 - 120	103	80 - 120	<0.00020	mg/L	7.9	20		
B417512	Total Nickel (Ni)	2024/06/27	103	80 - 120	102	80 - 120	<0.00050	mg/L	6.3	20		
B417512	Total Selenium (Se)	2024/06/27	106	80 - 120	105	80 - 120	<0.00020	mg/L	7.1	20		
B417512	Total Silver (Ag)	2024/06/27	104	80 - 120	102	80 - 120	<0.00010	mg/L	NC	20		
B417512	Total Thallium (Tl)	2024/06/27	108	80 - 120	108	80 - 120	<0.00020	mg/L	NC	20		
B417512	Total Tin (Sn)	2024/06/27	107	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		

BUREAU
VERITAS

Bureau Veritas Job #: C445647

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B417512	Total Titanium (Ti)	2024/06/27	102	80 - 120	99	80 - 120	<0.0010	mg/L	3.3	20		
B417512	Total Uranium (U)	2024/06/27	107	80 - 120	105	80 - 120	<0.00010	mg/L	7.2	20		
B417512	Total Vanadium (V)	2024/06/27	104	80 - 120	101	80 - 120	<0.0010	mg/L	4.4	20		
B417512	Total Zinc (Zn)	2024/06/27	103	80 - 120	103	80 - 120	<0.0030	mg/L	14	20		
B417516	Total Barium (Ba)	2024/06/26	101	80 - 120	101	80 - 120	<0.010	mg/L	1.0	20		
B417516	Total Boron (B)	2024/06/26	100	80 - 120	97	80 - 120	<0.020	mg/L	3.0	20		
B417516	Total Calcium (Ca)	2024/06/26	105	80 - 120	102	80 - 120	<0.30	mg/L	2.2	20		
B417516	Total Iron (Fe)	2024/06/26	105	80 - 120	103	80 - 120	<0.060	mg/L	1.6	20		
B417516	Total Lithium (Li)	2024/06/26	101	80 - 120	100	80 - 120	<0.020	mg/L	4.2	20		
B417516	Total Magnesium (Mg)	2024/06/26	104	80 - 120	103	80 - 120	<0.20	mg/L	2.0	20		
B417516	Total Manganese (Mn)	2024/06/26	106	80 - 120	104	80 - 120	<0.0040	mg/L	0.91	20		
B417516	Total Potassium (K)	2024/06/26	103	80 - 120	101	80 - 120	<0.30	mg/L	1.0	20		
B417516	Total Silicon (Si)	2024/06/26	95	80 - 120	97	80 - 120	<0.50	mg/L	3.2	20		
B417516	Total Sodium (Na)	2024/06/26	108	80 - 120	106	80 - 120	<0.50	mg/L	2.9	20		
B417516	Total Strontium (Sr)	2024/06/26	99	80 - 120	98	80 - 120	<0.020	mg/L	2.1	20		
B417516	Total Sulphur (S)	2024/06/26	100	80 - 120	102	80 - 120	<0.20	mg/L	1.3	20		
B430424	Radium 226	2024/07/05			88	85 - 115	<0.010	Bq/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.

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

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

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Method blank exceeds acceptance limits, $2 \times \text{RDL}$ acceptable for low level analysis



BUREAU
VERITAS

Bureau Veritas Job #: C445647

Report Date: 2024/07/08

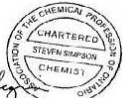
Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

VALIDATION SIGNATURE PAGE

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



Steven Simpson, Lab Director

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Gita Pokhrel, Laboratory Supervisor

Rahul Suryawanshi, Senior Analyst

Veronica Falk, B.Sc., P.Chem., QP, Scientific Specialist, Organics

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.

SO# 61045



FOR LAB USE ONLY

Relinquished by: 	Date 19 Jun 24 Time 0730	Received by: SEAN ENZ	Date 19 Jun 2024 Time 09150
Relinquished by:	Date Time	Received by:	Date Time

FOR LAB USE ONLY			
Cooler seal intact upon receipt?		Sample temperature upon receipt:	
☐ Yes	☐ No	☐ N/A	Frozen? ☐ Yes ☐ No
Send Analytical Results to: compliance.team@burgundydiamonds.com			

ACT R



Your P.O. #: 6404002992
 Your Project #: 61045
 Site Location: MDMER/SNP/SEEPAGE
 Your C.O.C. #: 101561

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
 900, 606 4 Street SW
 Calgary, AB
 CANADA T2P 1T1

Report Date: 2024/07/08
 Report #: R3524185
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C445697

Received: 2024/06/20, 09:50

Sample Matrix: Water
 # Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity pH 4.5 & pH 8.3 (as CaCO ₃)	5	N/A	2024/06/25	AB SOP-00005	SM 24 2310 B m
Alkalinity - Low Level	5	N/A	2024/06/26	AB SOP-00005	SM 24 2320 B m
Low level chloride/sulphate by AC	5	N/A	2024/06/25	AB SOP-00020	SM24-4500-Cl/SO ₄ -E m
Conductance - Low Level	5	N/A	2024/06/26	AB SOP-00005	SM 24 2510 B m
Fluoride - Low Level	5	N/A	2024/06/26	AB SOP-00005	SM 24 4500-F C m
Hardness Total (calculated as CaCO ₃) (2)	4	N/A	2024/06/30	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO ₃) (2)	1	N/A	2024/07/02	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (3)	2	2024/06/25	2024/06/26	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV (3)	3	2024/06/26	2024/06/28	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	2	2024/06/25	2024/06/26	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	3	2024/06/25	2024/06/27	AB SOP-00084	BCMOE BCLM Oct2013 m
Elements by ICP - Dissolved (3)	4	N/A	2024/06/24	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Dissolved (3)	1	N/A	2024/06/25	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	4	2024/06/29	2024/06/29	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	1	2024/06/29	2024/06/30	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS - Dissolved (3)	5	N/A	2024/06/23	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total	5	2024/06/29	2024/06/29	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	5	N/A	2024/06/25	AB SOP-00007	SM 24 4500 NH ₃ A G m
Nitrate + Nitrite-N (calculated) Low Lev	5	N/A	2024/06/26		Auto Calc
Nitrogen (Nitrite - Nitrate) Low Level	3	N/A	2024/06/25	AB SOP-00023	SM 24 4110 B m
Nitrogen (Nitrite - Nitrate) Low Level	2	N/A	2024/06/26	AB SOP-00023	SM 24 4110 B m
pH @25°C (4)	5	N/A	2024/06/26	AB SOP-00005	SM 24 4500-H+B m
pH (Field)	5	N/A	2024/06/20	Field Test	Field Test
Orthophosphate LL by Automated Analyzer (5)	5	N/A	2024/06/20	AB SOP-00025	SM 24 4500-P A, F m
Sulphate (SO ₄) by IC	5	N/A	2024/06/25	AB SOP-00026	SM 24 4110 B m
Hydrocarbons (C10-C30) in Water - GC/FID (6)	2	2024/06/21	2024/06/21	CAL SOP-00239	BCMOE EPH W 09/17
Temperature (Field)	5	N/A	2024/06/20	Field Test	Field Test
Total Kjeldahl Nitrogen (Total)	5	N/A	2024/06/26	BBY WI-00033	Auto Calc
Nitrogen (Total)	5	2024/06/24	2024/06/25	AB SOP-00093	SM 24 4500-N C m



Your P.O. #: 6404002992
Your Project #: 61045
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101561

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/08
Report #: R3524185
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C445697

Received: 2024/06/20, 09:50

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Carbon (Total Organic) (7)	5	N/A	2024/07/02	AB SOP-00087	MMCW 119 1996 m
Total Phosphorus Low Level Dissolved (8)	5	2024/06/25	2024/06/27	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	2	2024/06/25	2024/06/25	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	1	2024/06/25	2024/06/26	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	1	2024/06/25	2024/06/28	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	1	2024/06/26	2024/06/28	AB SOP-00024	SM 24 4500-P A,B,F m
TPH (C5-C30) Water Calc	2	N/A	2024/06/24		
Total Suspended Solids (NFR)	5	2024/06/21	2024/06/21	AB SOP-00061	SM 24 2540 D m
Turbidity	4	N/A	2024/06/21	CAL SOP-00081	SM 24 2130 B m
Turbidity	1	N/A	2024/07/02	CAL SOP-00081	SM 24 2130 B m
Volatile HC-BTEX (9)	2	2024/06/20	2024/06/24		Auto Calc
BTEX/MTBE/Styrene/VPH in Water GC/MS/FID	2	2024/06/21	2024/06/24	CAL SOP-00240	BC MELP VH 2017
Ion Balance (10)	4	N/A	2024/06/30		
Ion Balance (10)	1	N/A	2024/07/02		
Total Dissolved Solids (Calculated) (10)	4	N/A	2024/06/30		
Total Dissolved Solids (Calculated) (10)	1	N/A	2024/07/02		
Radium Isotopes by Alpha Spectrometry (1, 11)	5	N/A	2024/07/04	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

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, EPA, APHA or the Quebec Ministry of Environment.

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



Your P.O. #: 6404002992
Your Project #: 61045
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101561

Attention: COMPLIANCE TEAM

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900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/08
Report #: R3524185
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C445697

Received: 2024/06/20, 09:50

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 Kitimat, 6790 Kitimat Rd., Unit 4, Mississauga, Ontario, L5N 5L9

(2) "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).

(3) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

(5) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.

(6) Sample(s) analyzed using methodologies that have been subjected to Bureau Veritas's standard validation process for the submitted matrix however it is not an accredited method.

(7) TOC present in the sample should be considered as non-purgeable TOC.

(8) Dissolved Phosphorus > Total Phosphorus Imbalance: When applicable, Dissolved Phosphorus and Total Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.

(9) VPH = VH - (Benzene + Toluene + Ethylbenzene + m & p-Xylene + o-Xylene + Styrene)

(10) Calculation was conducted as per client request using CAL PDF-00333.

(11) Radium-226 results have not been corrected for blanks.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Geraldlyn Gouthro, Key Account Specialist

Email: geraldlyn.gouthro@bureauveritas.com

Phone# (403) 291-3077

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For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.

BUREAU
VERITAS

Bureau Veritas Job #: C445697

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPS359			CPS360			CPS361		
Sampling Date		2024/06/15 15:30			2024/06/15 14:55			2024/06/15 11:21		
COC Number		101561			101561			101561		
	UNITS	SEEP-018B	RDL	QC Batch	SEEP-019	RDL	QC Batch	SEEP-355	RDL	QC Batch
RADIONUCLIDE										
Radium 226	Bq/l	<0.010	0.010	B423548	<0.010	0.010	B423548	<0.010	0.010	B423548
Calculated Parameters										
Total Hardness (CaCO ₃)	mg/L	146	0.50	B410577	109	0.50	B410299	322	0.50	B410299
Calculated Ion Balance (% Difference)	%	1.5		B410610	1.3		B410610	37		B410610
Nitrate plus Nitrite (N)	mg/L	1.7	0.0022	B410591	1.9	0.0022	B410591	0.53	0.0022	B410591
Calculated Total Dissolved Solids	mg/L	260	1.7	B410615	200	1.7	B410615	350	0.95	B410615
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.118	0.020	B410812	<0.10	0.10	B410812	0.276	0.020	B410812
Field Parameters										
Field pH	pH	7.18	N/A	ONSITE	5.89	N/A	ONSITE	8.43	N/A	ONSITE
Field Temperature (Fd)	deg. C	4.9	N/A	ONSITE	1.6	N/A	ONSITE	1.7	N/A	ONSITE
Misc. Inorganics										
Fluoride (F)	mg/L	0.150	0.010	B416176	0.021	0.010	B416167	0.046	0.010	B416192
pH	pH	7.86	N/A	B416174	6.53	N/A	B416163	8.32	N/A	B416184
Acidity (pH 4.5)	mg/L	<1.0	1.0	B416044	<1.0	1.0	B416044	<1.0	1.0	B416044
Alkalinity (Total as CaCO ₃)	mg/L	69.5	0.50	B416171	9.01	0.50	B416156	177	0.50	B416182
Total Organic Carbon (C)	mg/L	2.8	0.20	B423753	4.0	0.20	B423753	0.95	0.20	B423753
Acidity (pH 8.3)	mg/L	1.8	1.0	B416044	4.1	1.0	B416044	<1.0	1.0	B416044
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	B416171	<0.50	0.50	B416156	2.83	0.50	B416182
Bicarbonate (HCO ₃)	mg/L	84.7	0.50	B416171	11.0	0.50	B416156	209	0.50	B416182
Carbonate (CO ₃)	mg/L	<0.50	0.50	B416171	<0.50	0.50	B416156	3.40	0.50	B416182
Hydroxide (OH)	mg/L	<0.50	0.50	B416171	<0.50	0.50	B416156	<0.50	0.50	B416182
Total Suspended Solids	mg/L	3.9	1.0	B410873	<1.0	1.0	B410873	3.1	0.97	B410873
Anions										
Orthophosphate (P)	mg/L	0.0012	0.0010	B410767	<0.0010	0.0010	B410767	0.039	0.0010	B410767
Chloride (Cl)	mg/L	6.4	0.50	B415793	8.1	0.50	B415793	<0.50	0.50	B415793
Dissolved-Low Level Sulphate (SO ₄)	mg/L	120	1.5	B415748	120	1.5	B415748	65	0.30	B415748
Nutrients										
Dissolved Phosphorus (P)	mg/L	<0.0020 (1)	0.0020	B415371	<0.0020	0.0020	B415371	0.034 (1)	0.0020	B415371
Total Phosphorus (P)	mg/L	0.0075	0.0020	B416943	0.0026	0.0020	B415335	0.17	0.0020	B415335
Total Ammonia (N)	mg/L	<0.0050	0.0050	B415289	<0.0050	0.0050	B415289	<0.0050	0.0050	B415284
RDL = Reportable Detection Limit										
N/A = Not Applicable										
(1) Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.										



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPS359			CPS360			CPS361		
Sampling Date		2024/06/15 15:30			2024/06/15 14:55			2024/06/15 11:21		
COC Number		101561			101561			101561		
	UNITS	SEEP-018B	RDL	QC Batch	SEEP-019	RDL	QC Batch	SEEP-355	RDL	QC Batch
Nitrite (N)	mg/L	0.0022	0.0010	B415754	0.0013	0.0010	B415754	0.0043	0.0010	B415754
Nitrate (N)	mg/L	1.7	0.0020	B415754	1.9	0.0020	B415754	0.53	0.0020	B415754
Total Nitrogen (N)	mg/L	1.9	0.020	B414074	1.7 (1)	0.10	B414074	0.81	0.020	B414074
Physical Properties										
Conductivity	uS/cm	425	1.0	B416175	329	1.0	B416164	458	1.0	B416187
Physical Properties										
Turbidity - NTU	NTU	5.3	0.10	B412048	1.5	0.10	B412048	180 (2)	0.10	B423911
RDL = Reportable Detection Limit										
(1) Nitrogen < Nitrate: Both values fall within the method uncertainty for duplicates and are likely equivalent.										
(2) Sample was originally processed within hold time. Data quality required investigation. Re-analysis was completed past recommended hold time.										



BUREAU
VERITAS

Bureau Veritas Job #: C445697

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPS362			CPS363		
Sampling Date		2024/06/15 14:05			2024/06/15 12:07		
COC Number		101561			101561		
	UNITS	SEEP-357	RDL	QC Batch	SEEP-359	RDL	QC Batch
RADIONUCLIDE							
Radium 226	Bq/l	<0.010	0.010	B423548	<0.010	0.010	B423548
Calculated Parameters							
Total Hardness (CaCO ₃)	mg/L	118	0.50	B410299	41.7	0.50	B410299
Calculated Ion Balance (% Difference)	%	0.69		B410032	3.7		B410032
Nitrate plus Nitrite (N)	mg/L	2.2	0.0022	B410591	0.11	0.0022	B410024
Calculated Total Dissolved Solids	mg/L	190	0.95	B410033	160	0.95	B410033
Total Total Kjeldahl Nitrogen (Calc)	mg/L	<0.040	0.040	B410812	0.633	0.020	B410812
Field Parameters							
Field pH	pH	6.95	N/A	ONSITE	7.35	N/A	ONSITE
Field Temperature (Fd)	deg. C	6.7	N/A	ONSITE	8.5	N/A	ONSITE
Misc. Inorganics							
Fluoride (F)	mg/L	0.101	0.010	B416167	0.060	0.010	B416167
pH	pH	7.06	N/A	B416163	7.42	N/A	B416163
Acidity (pH 4.5)	mg/L	<1.0	1.0	B416044	<1.0	1.0	B416044
Alkalinity (Total as CaCO ₃)	mg/L	34.3	0.50	B416156	55.8	0.50	B416156
Total Organic Carbon (C)	mg/L	0.99	0.20	B423753	11	0.20	B423753
Acidity (pH 8.3)	mg/L	2.1	1.0	B416044	2.2	1.0	B416044
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	B416156	<0.50	0.50	B416156
Bicarbonate (HCO ₃)	mg/L	41.9	0.50	B416156	68.0	0.50	B416156
Carbonate (CO ₃)	mg/L	<0.50	0.50	B416156	<0.50	0.50	B416156
Hydroxide (OH)	mg/L	<0.50	0.50	B416156	<0.50	0.50	B416156
Total Suspended Solids	mg/L	<1.0	1.0	B410873	4.1	1.0	B410873
Anions							
Orthophosphate (P)	mg/L	<0.0010	0.0010	B410767	0.0032	0.0010	B410767
Chloride (Cl)	mg/L	6.1	0.50	B415793	4.5	0.50	B415793
Dissolved-Low Level Sulphate (SO ₄)	mg/L	94	0.30	B415748	62	0.30	B415748
Nutrients							
Dissolved Phosphorus (P)	mg/L	<0.0020	0.0020	B415371	0.010	0.0020	B415371
Total Phosphorus (P)	mg/L	0.014	0.0020	B418634	0.028	0.0020	B418634
Total Ammonia (N)	mg/L	0.035	0.0050	B415284	0.055	0.0050	B415284
Nitrite (N)	mg/L	0.0034	0.0010	B415754	0.0049	0.0010	B415754
RDL = Reportable Detection Limit N/A = Not Applicable							



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPS362			CPS363		
Sampling Date		2024/06/15 14:05			2024/06/15 12:07		
COC Number		101561			101561		
	UNITS	SEEP-357	RDL	QC Batch	SEEP-359	RDL	QC Batch
Nitrate (N)	mg/L	2.2	0.0020	B415754	0.11	0.0020	B415754
Total Nitrogen (N)	mg/L	2.1 (1)	0.040	B414074	0.74	0.020	B414074
Physical Properties							
Conductivity	uS/cm	299	1.0	B416164	262	1.0	B416164
Physical Properties							
Turbidity - NTU	NTU	0.13	0.10	B412048	4.3	0.10	B412048
RDL = Reportable Detection Limit							
(1) Nitrogen < Nitrate: Both values fall within the method uncertainty for duplicates and are likely equivalent.							



MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID		CPS359		CPS360		CPS361		
Sampling Date		2024/06/15 15:30		2024/06/15 14:55		2024/06/15 11:21		
COC Number		101561		101561		101561		
	UNITS	SEEP-018B	QC Batch	SEEP-019	QC Batch	SEEP-355	RDL	QC Batch
Elements								
Dissolved Mercury (Hg)	mg/L	<0.0000019	B417080	<0.0000019	B415661	<0.0000019	0.0000019	B415661
Total Mercury (Hg)	mg/L	<0.0000019	B415605	<0.0000019	B415895	<0.0000019	0.0000019	B415664
RDL = Reportable Detection Limit								

Bureau Veritas ID		CPS362	CPS363		
Sampling Date		2024/06/15 14:05	2024/06/15 12:07		
COC Number		101561	101561		
	UNITS	SEEP-357	SEEP-359	RDL	QC Batch
Elements					
Dissolved Mercury (Hg)	mg/L	<0.0000019	0.0000043 (1)	0.0000019	B417080
Total Mercury (Hg)	mg/L	<0.0000019	0.0000040	0.0000019	B415664
RDL = Reportable Detection Limit					
(1) Client supplied DM bottle contained particulate.					



BUREAU
VERITAS

Bureau Veritas Job #: C445697

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CPS359		CPS360		CPS361		
Sampling Date		2024/06/15 15:30		2024/06/15 14:55		2024/06/15 11:21		
COC Number		101561		101561		101561		
	UNITS	SEEP-018B	QC Batch	SEEP-019	QC Batch	SEEP-355	RDL	QC Batch
Elements								
Dissolved Aluminum (Al)	mg/L	0.015	B412917	0.14	B412917	0.15	0.0030	B412917
Total Aluminum (Al)	mg/L	0.18	B421940	0.16	B421943	9.5	0.0030	B421940
Dissolved Antimony (Sb)	mg/L	<0.00060	B412917	<0.00060	B412917	<0.00060	0.00060	B412917
Total Antimony (Sb)	mg/L	<0.00060	B421940	<0.00060	B421943	<0.00060	0.00060	B421940
Dissolved Arsenic (As)	mg/L	0.00078	B412917	<0.00020	B412917	0.014	0.00020	B412917
Total Arsenic (As)	mg/L	0.00097	B421940	<0.00020	B421943	0.014	0.00020	B421940
Dissolved Barium (Ba)	mg/L	0.038	B415024	0.032	B415024	0.042	0.010	B415024
Total Barium (Ba)	mg/L	0.045	B421941	0.033	B421946	0.12	0.010	B421941
Dissolved Beryllium (Be)	mg/L	<0.0010	B412917	<0.0010	B412917	<0.0010	0.0010	B412917
Total Beryllium (Be)	mg/L	<0.0010	B421940	<0.0010	B421943	<0.0010	0.0010	B421940
Dissolved Boron (B)	mg/L	0.023	B415024	<0.020	B415024	0.039	0.020	B415024
Total Boron (B)	mg/L	0.025	B421941	<0.020	B421946	0.047	0.020	B421941
Dissolved Cadmium (Cd)	mg/L	<0.000020	B412917	<0.000020	B412917	<0.000020	0.000020	B412917
Total Cadmium (Cd)	mg/L	<0.000020	B421940	0.000028	B421943	0.000077	0.000020	B421940
Dissolved Calcium (Ca)	mg/L	29	B415024	18	B415024	15	0.30	B415024
Total Calcium (Ca)	mg/L	30	B421941	21	B421946	22	0.30	B421941
Dissolved Chromium (Cr)	mg/L	<0.0010	B412917	<0.0010	B412917	0.0024	0.0010	B412917
Total Chromium (Cr)	mg/L	<0.0010	B421940	<0.0010	B421943	0.065	0.0010	B421940
Dissolved Cobalt (Co)	mg/L	0.00039	B412917	0.0013	B412917	0.00088	0.00030	B412917
Total Cobalt (Co)	mg/L	0.00059	B421940	0.0014	B421943	0.032	0.00030	B421940
Dissolved Copper (Cu)	mg/L	0.0020	B412917	0.0028	B412917	0.0012	0.0010	B412917
Total Copper (Cu)	mg/L	0.0026	B421940	0.0029	B421943	0.018	0.0010	B421940
Dissolved Iron (Fe)	mg/L	0.28	B415024	0.092	B415024	0.34	0.060	B415024
Total Iron (Fe)	mg/L	0.22	B421941	0.066	B421946	16	0.060	B421941
Dissolved Lead (Pb)	mg/L	<0.00020	B412917	<0.00020	B412917	<0.00020	0.00020	B412917
Total Lead (Pb)	mg/L	<0.00020	B421940	<0.00020	B421943	0.0032	0.00020	B421940
Dissolved Lithium (Li)	mg/L	<0.020	B415024	<0.020	B415024	<0.020	0.020	B415024
Total Lithium (Li)	mg/L	<0.020	B421941	<0.020	B421946	<0.020	0.020	B421941
Dissolved Magnesium (Mg)	mg/L	16	B415024	13	B415024	7.0	0.20	B415024
Total Magnesium (Mg)	mg/L	17	B421941	14	B421946	65	0.20	B421941
Dissolved Manganese (Mn)	mg/L	0.010	B415024	0.024	B415024	0.0053	0.0040	B415024
RDL = Reportable Detection Limit								



BUREAU
VERITAS

Bureau Veritas Job #: C445697

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMR/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CPS359		CPS360		CPS361		
Sampling Date		2024/06/15 15:30		2024/06/15 14:55		2024/06/15 11:21		
COC Number		101561		101561		101561		
	UNITS	SEEP-018B	QC Batch	SEEP-019	QC Batch	SEEP-355	RDL	QC Batch
Total Manganese (Mn)	mg/L	0.014	B421941	0.025	B421946	0.25	0.0040	B421941
Dissolved Molybdenum (Mo)	mg/L	0.022	B412917	0.0021	B412917	0.035	0.00020	B412917
Total Molybdenum (Mo)	mg/L	0.025	B421940	0.0027	B421943	0.036	0.00020	B421940
Dissolved Nickel (Ni)	mg/L	0.017	B412917	0.0035	B412917	0.016	0.00050	B412917
Total Nickel (Ni)	mg/L	0.021	B421940	0.0033	B421943	0.53	0.00050	B421940
Dissolved Potassium (K)	mg/L	13	B415024	5.9	B415024	16	0.30	B415024
Total Potassium (K)	mg/L	14	B421941	6.8	B421946	18	0.30	B421941
Dissolved Selenium (Se)	mg/L	0.00041	B412917	<0.00020	B412917	0.0019	0.00020	B412917
Total Selenium (Se)	mg/L	0.00045	B421940	<0.00020	B421943	0.0019	0.00020	B421940
Dissolved Silicon (Si)	mg/L	3.9	B415024	2.8	B415024	11	0.50	B415024
Total Silicon (Si)	mg/L	4.4	B421941	3.0	B421946	67	0.50	B421941
Dissolved Silver (Ag)	mg/L	<0.00010	B412917	<0.00010	B412917	<0.00010	0.00010	B412917
Total Silver (Ag)	mg/L	<0.00010	B421940	<0.00010	B421943	<0.00010	0.00010	B421940
Dissolved Sodium (Na)	mg/L	23	B415024	15	B415024	69	0.50	B415024
Total Sodium (Na)	mg/L	25	B421941	17	B421946	76	0.50	B421941
Dissolved Strontium (Sr)	mg/L	0.23	B415024	0.15	B415024	0.20	0.020	B415024
Total Strontium (Sr)	mg/L	0.26	B421941	0.15	B421946	0.32	0.020	B421941
Dissolved Sulphur (S)	mg/L	40	B415024	39	B415024	21	0.20	B415024
Total Sulphur (S)	mg/L	41	B421941	38	B421946	22	0.20	B421941
Dissolved Thallium (Tl)	mg/L	<0.00020	B412917	<0.00020	B412917	<0.00020	0.00020	B412917
Total Thallium (Tl)	mg/L	<0.00020	B421940	<0.00020	B421943	<0.00020	0.00020	B421940
Dissolved Tin (Sn)	mg/L	<0.0010	B412917	<0.0010	B412917	<0.0010	0.0010	B412917
Total Tin (Sn)	mg/L	<0.0010	B421940	<0.0010	B421943	<0.0010	0.0010	B421940
Dissolved Titanium (Ti)	mg/L	<0.0010	B412917	<0.0010	B412917	0.0049	0.0010	B412917
Total Titanium (Ti)	mg/L	0.012	B421940	<0.0010	B421943	0.16	0.0010	B421940
Dissolved Uranium (U)	mg/L	0.0097	B412917	<0.00010	B412917	0.011	0.00010	B412917
Total Uranium (U)	mg/L	0.011	B421940	0.00012	B421943	0.011	0.00010	B421940
Dissolved Vanadium (V)	mg/L	<0.0010	B412917	<0.0010	B412917	0.0098	0.0010	B412917
Total Vanadium (V)	mg/L	0.0013	B421940	<0.0010	B421943	0.022	0.0010	B421940
Dissolved Zinc (Zn)	mg/L	<0.0030	B412917	<0.0030	B412917	<0.0030	0.0030	B412917
Total Zinc (Zn)	mg/L	<0.0030	B421940	<0.0030	B421943	0.071	0.0030	B421940
RDL = Reportable Detection Limit								



BUREAU
VERITAS

Bureau Veritas Job #: C445697

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CPS362		CPS363		
Sampling Date		2024/06/15 14:05		2024/06/15 12:07		
COC Number		101561		101561		
	UNITS	SEEP-357	QC Batch	SEEP-359	RDL	QC Batch
Elements						
Dissolved Aluminum (Al)	mg/L	0.0091	B412917	0.14	0.0030	B412917
Total Aluminum (Al)	mg/L	0.29	B421940	0.22	0.0030	B421940
Dissolved Antimony (Sb)	mg/L	<0.00060	B412917	<0.00060	0.00060	B412917
Total Antimony (Sb)	mg/L	<0.00060	B421940	<0.00060	0.00060	B421940
Dissolved Arsenic (As)	mg/L	<0.00020	B412917	0.0015	0.00020	B412917
Total Arsenic (As)	mg/L	0.00031	B421940	0.0017	0.00020	B421940
Dissolved Barium (Ba)	mg/L	0.026	B415178	0.026	0.010	B415024
Total Barium (Ba)	mg/L	0.035	B421941	0.031	0.010	B421941
Dissolved Beryllium (Be)	mg/L	<0.0010	B412917	<0.0010	0.0010	B412917
Total Beryllium (Be)	mg/L	<0.0010	B421940	<0.0010	0.0010	B421940
Dissolved Boron (B)	mg/L	0.025	B415178	<0.020	0.020	B415024
Total Boron (B)	mg/L	0.025	B421941	<0.020	0.020	B421941
Dissolved Cadmium (Cd)	mg/L	<0.000020	B412917	<0.000020	0.000020	B412917
Total Cadmium (Cd)	mg/L	<0.000020	B421940	0.000024	0.000020	B421940
Dissolved Calcium (Ca)	mg/L	24	B415178	8.9	0.30	B415024
Total Calcium (Ca)	mg/L	26	B421941	9.0	0.30	B421941
Dissolved Chromium (Cr)	mg/L	<0.0010	B412917	<0.0010	0.0010	B412917
Total Chromium (Cr)	mg/L	0.0012	B421940	0.0010	0.0010	B421940
Dissolved Cobalt (Co)	mg/L	<0.00030	B412917	0.00035	0.00030	B412917
Total Cobalt (Co)	mg/L	0.00036	B421940	0.00051	0.00030	B421940
Dissolved Copper (Cu)	mg/L	<0.0010	B412917	0.0026	0.0010	B412917
Total Copper (Cu)	mg/L	<0.0010	B421940	0.0032	0.0010	B421940
Dissolved Iron (Fe)	mg/L	<0.060	B415178	0.26	0.060	B415024
Total Iron (Fe)	mg/L	0.45	B421941	0.42	0.060	B421941
Dissolved Lead (Pb)	mg/L	<0.00020	B412917	<0.00020	0.00020	B412917
Total Lead (Pb)	mg/L	<0.00020	B421940	<0.00020	0.00020	B421940
Dissolved Lithium (Li)	mg/L	<0.020	B415178	<0.020	0.020	B415024
Total Lithium (Li)	mg/L	<0.020	B421941	<0.020	0.020	B421941
Dissolved Magnesium (Mg)	mg/L	12	B415178	4.1	0.20	B415024
Total Magnesium (Mg)	mg/L	13	B421941	4.7	0.20	B421941
Dissolved Manganese (Mn)	mg/L	<0.0040	B415178	0.012	0.0040	B415024
RDL = Reportable Detection Limit						



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CPS362		CPS363		
Sampling Date		2024/06/15 14:05		2024/06/15 12:07		
COC Number		101561		101561		
	UNITS	SEEP-357	QC Batch	SEEP-359	RDL	QC Batch
Total Manganese (Mn)	mg/L	0.0083	B421941	0.014	0.0040	B421941
Dissolved Molybdenum (Mo)	mg/L	0.010	B412917	0.034	0.00020	B412917
Total Molybdenum (Mo)	mg/L	0.012	B421940	0.036	0.00020	B421940
Dissolved Nickel (Ni)	mg/L	0.0081	B412917	0.0065	0.00050	B412917
Total Nickel (Ni)	mg/L	0.010	B421940	0.0079	0.00050	B421940
Dissolved Potassium (K)	mg/L	8.0	B415178	9.2	0.30	B415024
Total Potassium (K)	mg/L	8.9	B421941	9.6	0.30	B421941
Dissolved Selenium (Se)	mg/L	<0.00020	B412917	<0.00020	0.00020	B412917
Total Selenium (Se)	mg/L	0.00024	B421940	0.00022	0.00020	B421940
Dissolved Silicon (Si)	mg/L	1.7	B415178	2.9	0.50	B415024
Total Silicon (Si)	mg/L	2.6	B421941	3.2	0.50	B421941
Dissolved Silver (Ag)	mg/L	<0.00010	B412917	<0.00010	0.00010	B412917
Total Silver (Ag)	mg/L	<0.00010	B421940	<0.00010	0.00010	B421940
Dissolved Sodium (Na)	mg/L	7.1	B415178	36	0.50	B415024
Total Sodium (Na)	mg/L	7.6	B421941	38	0.50	B421941
Dissolved Strontium (Sr)	mg/L	0.18	B415178	0.14	0.020	B415024
Total Strontium (Sr)	mg/L	0.22	B421941	0.17	0.020	B421941
Dissolved Sulphur (S)	mg/L	27	B415178	20	0.20	B415024
Total Sulphur (S)	mg/L	32	B421941	20	0.20	B421941
Dissolved Thallium (Tl)	mg/L	<0.00020	B412917	<0.00020	0.00020	B412917
Total Thallium (Tl)	mg/L	<0.00020	B421940	<0.00020	0.00020	B421940
Dissolved Tin (Sn)	mg/L	<0.0010	B412917	<0.0010	0.0010	B412917
Total Tin (Sn)	mg/L	<0.0010	B421940	<0.0010	0.0010	B421940
Dissolved Titanium (Ti)	mg/L	<0.0010	B412917	0.0036	0.0010	B412917
Total Titanium (Ti)	mg/L	0.030	B421940	0.0070	0.0010	B421940
Dissolved Uranium (U)	mg/L	0.00068	B412917	0.0015	0.00010	B412917
Total Uranium (U)	mg/L	0.00083	B421940	0.0016	0.00010	B421940
Dissolved Vanadium (V)	mg/L	<0.0010	B412917	0.0026	0.0010	B412917
Total Vanadium (V)	mg/L	0.0012	B421940	0.0029	0.0010	B421940
Dissolved Zinc (Zn)	mg/L	<0.0030	B412917	<0.0030	0.0030	B412917
Total Zinc (Zn)	mg/L	<0.0030	B421940	<0.0030	0.0030	B421940
RDL = Reportable Detection Limit						



TOTAL PETROLEUM HYDROCARBONS (WATER)

Bureau Veritas ID		CPS361	CPS363		
Sampling Date		2024/06/15 11:21	2024/06/15 12:07		
COC Number		101561	101561		
	UNITS	SEEP-355	SEEP-359	RDL	QC Batch
Hydrocarbons					
Total Extractables C10 to C30	mg/L	<0.20	<0.20	0.20	B410320
Total hydrocarbons C5-C30	mg/L	<0.22	<0.22	0.22	B409350
Surrogate Recovery (%)					
O-TERPHENYL (sur.)	%	103	114		B410320
RDL = Reportable Detection Limit					



VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		CPS361	CPS363		
Sampling Date		2024/06/15 11:21	2024/06/15 12:07		
COC Number		101561	101561		
	UNITS	SEEP-355	SEEP-359	RDL	QC Batch
Volatiles					
LH (C5-C10)	mg/L	<0.10	<0.10	0.10	B411413
Xylenes (Total)	mg/L	<0.00057	<0.00057	0.00057	B410108
VH C6-C10	mg/L	<0.14	<0.14	0.14	B410108
VPH (VH6 to 10 - BTEX)	mg/L	<0.14	<0.14	0.14	B410108
Benzene	mg/L	<0.00040	<0.00040	0.00040	B411413
Toluene	mg/L	<0.00040	<0.00040	0.00040	B411413
Ethylbenzene	mg/L	<0.00040	<0.00040	0.00040	B411413
m & p-Xylene	mg/L	<0.00040	<0.00040	0.00040	B411413
o-Xylene	mg/L	<0.00040	<0.00040	0.00040	B411413
Styrene	mg/L	<0.00040	<0.00040	0.00040	B411413
Surrogate Recovery (%)					
1,4-Difluorobenzene (sur.)	%	108	111		B411413
4-Bromofluorobenzene (sur.)	%	106	108		B411413
D4-1,2-Dichloroethane (sur.)	%	109	112		B411413
RDL = Reportable Detection Limit					



GENERAL COMMENTS

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

Package 1	3.4°C
Package 2	3.4°C
Package 3	3.2°C
Package 4	4.2°C
Package 5	4.6°C
Package 6	2.7°C
Package 7	4.7°C
Package 8	2.8°C
Package 9	5.3°C
Package 10	4.3°C
Package 11	2.5°C
Package 12	3.0°C
Package 13	5.1°C
Package 14	2.4°C

Sample CPS359 [SEEP-018B] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level.

Sample CPS360 [SEEP-019] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level.

Sample CPS361 [SEEP-355] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level.

Sample CPS362 [SEEP-357] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level.

Sample CPS363 [SEEP-359] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level.

Results relate only to the items tested.

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Bureau Veritas Job #: C445697

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B410320	O-TERPHENYL (sur.)	2024/06/21	113	60 - 140	102	60 - 140	90	%				
B411413	1,4-Difluorobenzene (sur.)	2024/06/24	101	70 - 130	102	70 - 130	102	%				
B411413	4-Bromofluorobenzene (sur.)	2024/06/24	102	70 - 130	101	70 - 130	105	%				
B411413	D4-1,2-Dichloroethane (sur.)	2024/06/24	122	70 - 130	112	70 - 130	109	%				
B410320	Total Extractables C10 to C30	2024/06/21	103	60 - 140	96	70 - 130	<0.20	mg/L	NC	30		
B410767	Orthophosphate (P)	2024/06/20	95	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
B410873	Total Suspended Solids	2024/06/21	102	80 - 120	96	80 - 120	<1.0	mg/L	NC	20		
B411413	Benzene	2024/06/24	104	50 - 140	109	60 - 130	<0.00040	mg/L	NC	30		
B411413	Ethylbenzene	2024/06/24	96	50 - 140	100	60 - 130	<0.00040	mg/L	NC	30		
B411413	LH (C5-C10)	2024/06/24					<0.10	mg/L				
B411413	m & p-Xylene	2024/06/24	91	50 - 140	93	60 - 130	<0.00040	mg/L	NC	30		
B411413	o-Xylene	2024/06/24	92	50 - 140	93	60 - 130	<0.00040	mg/L	NC	30		
B411413	Styrene	2024/06/24	108	50 - 140	110	60 - 130	<0.00040	mg/L	NC	40		
B411413	Toluene	2024/06/24	96	50 - 140	97	60 - 130	<0.00040	mg/L	NC	30		
B412048	Turbidity - NTU	2024/06/21			100	80 - 120	<0.10	NTU	0.75	20		
B412917	Dissolved Aluminum (Al)	2024/06/23	80	80 - 120	115	80 - 120	<0.0030	mg/L	2.8	20		
B412917	Dissolved Antimony (Sb)	2024/06/23	96	80 - 120	98	80 - 120	<0.00060	mg/L	NC	20		
B412917	Dissolved Arsenic (As)	2024/06/23	102	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20		
B412917	Dissolved Beryllium (Be)	2024/06/23	99	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
B412917	Dissolved Cadmium (Cd)	2024/06/23	98	80 - 120	100	80 - 120	<0.000020	mg/L				
B412917	Dissolved Chromium (Cr)	2024/06/23	99	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20		
B412917	Dissolved Cobalt (Co)	2024/06/23	99	80 - 120	104	80 - 120	<0.00030	mg/L	NC	20		
B412917	Dissolved Copper (Cu)	2024/06/23	97	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20		
B412917	Dissolved Lead (Pb)	2024/06/23	97	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20		
B412917	Dissolved Molybdenum (Mo)	2024/06/23	101	80 - 120	101	80 - 120	<0.00020	mg/L	8.0	20		
B412917	Dissolved Nickel (Ni)	2024/06/23	98	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20		
B412917	Dissolved Selenium (Se)	2024/06/23	101	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20		
B412917	Dissolved Silver (Ag)	2024/06/23	95	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
B412917	Dissolved Thallium (Tl)	2024/06/23	100	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20		
B412917	Dissolved Tin (Sn)	2024/06/23	96	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
B412917	Dissolved Titanium (Ti)	2024/06/23	92	80 - 120	102	80 - 120	<0.0010	mg/L	8.0	20		
B412917	Dissolved Uranium (U)	2024/06/23	100	80 - 120	102	80 - 120	<0.00010	mg/L	NC	20		

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VERITAS

Bureau Veritas Job #: C445697

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QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B412917	Dissolved Vanadium (V)	2024/06/23	100	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20		
B412917	Dissolved Zinc (Zn)	2024/06/23	96	80 - 120	103	80 - 120	<0.0030	mg/L	NC	20		
B414074	Total Nitrogen (N)	2024/06/25	NC	80 - 120	104	80 - 120	<0.020	mg/L	0.011	20	106	80 - 120
B415024	Dissolved Barium (Ba)	2024/06/24	96	80 - 120	97	80 - 120	<0.010	mg/L	1.2	20		
B415024	Dissolved Boron (B)	2024/06/24	94	80 - 120	93	80 - 120	<0.020	mg/L	16	20		
B415024	Dissolved Calcium (Ca)	2024/06/24	93	80 - 120	99	80 - 120	<0.30	mg/L	13	20		
B415024	Dissolved Iron (Fe)	2024/06/24	NC	80 - 120	99	80 - 120	<0.060	mg/L	0.94	20		
B415024	Dissolved Lithium (Li)	2024/06/24	94	80 - 120	95	80 - 120	<0.020	mg/L	NC	20		
B415024	Dissolved Magnesium (Mg)	2024/06/24	95	80 - 120	97	80 - 120	<0.20	mg/L	0.14	20		
B415024	Dissolved Manganese (Mn)	2024/06/24	99	80 - 120	98	80 - 120	<0.0040	mg/L	2.0	20		
B415024	Dissolved Potassium (K)	2024/06/24	97	80 - 120	98	80 - 120	<0.30	mg/L	15	20		
B415024	Dissolved Silicon (Si)	2024/06/24	92	80 - 120	96	80 - 120	<0.50	mg/L	1.1	20		
B415024	Dissolved Sodium (Na)	2024/06/24	96	80 - 120	96	80 - 120	<0.50	mg/L	14	20		
B415024	Dissolved Strontium (Sr)	2024/06/24	94	80 - 120	96	80 - 120	<0.020	mg/L	0.19	20		
B415024	Dissolved Sulphur (S)	2024/06/24	99	80 - 120	95	80 - 120	<0.20	mg/L	7.1	20		
B415178	Dissolved Barium (Ba)	2024/06/25	95	80 - 120	94	80 - 120	<0.010	mg/L	8.2	20		
B415178	Dissolved Boron (B)	2024/06/25	102	80 - 120	100	80 - 120	<0.020	mg/L	NC	20		
B415178	Dissolved Calcium (Ca)	2024/06/25	100	80 - 120	99	80 - 120	<0.30	mg/L	0.17	20		
B415178	Dissolved Iron (Fe)	2024/06/25	100	80 - 120	100	80 - 120	<0.060	mg/L	NC	20		
B415178	Dissolved Lithium (Li)	2024/06/25	102	80 - 120	103	80 - 120	<0.020	mg/L	NC	20		
B415178	Dissolved Magnesium (Mg)	2024/06/25	103	80 - 120	102	80 - 120	<0.20	mg/L	0.50	20		
B415178	Dissolved Manganese (Mn)	2024/06/25	103	80 - 120	104	80 - 120	<0.0040	mg/L	NC	20		
B415178	Dissolved Potassium (K)	2024/06/25	99	80 - 120	98	80 - 120	<0.30	mg/L	0.93	20		
B415178	Dissolved Silicon (Si)	2024/06/25	89	80 - 120	92	80 - 120	<0.50	mg/L	0.71	20		
B415178	Dissolved Sodium (Na)	2024/06/25	102	80 - 120	100	80 - 120	<0.50	mg/L	0.69	20		
B415178	Dissolved Strontium (Sr)	2024/06/25	93	80 - 120	92	80 - 120	<0.020	mg/L	0.22	20		
B415178	Dissolved Sulphur (S)	2024/06/25	96	80 - 120	94	80 - 120	<0.20	mg/L	0.86	20		
B415284	Total Ammonia (N)	2024/06/25	103	80 - 120	109	80 - 120	<0.0050	mg/L	NC	20		
B415289	Total Ammonia (N)	2024/06/25	102	80 - 120	109	80 - 120	<0.0050	mg/L	1.4	20		
B415335	Total Phosphorus (P)	2024/06/26	100	80 - 120	94	80 - 120	<0.0010	mg/L	11	20	90	N/A
B415371	Dissolved Phosphorus (P)	2024/06/27	103	80 - 120	97	80 - 120	<0.0010	mg/L	3.0	20	93	80 - 120
B415605	Total Mercury (Hg)	2024/06/26	96	80 - 120	99	80 - 120	<0.0000019	mg/L	NC	20		

BUREAU
VERITAS

Bureau Veritas Job #: C445697

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QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B415661	Dissolved Mercury (Hg)	2024/06/26	99	80 - 120	90	80 - 120	<0.0000019	mg/L	NC	20		
B415664	Total Mercury (Hg)	2024/06/27	99	80 - 120	100	80 - 120	<0.0000019	mg/L	NC	20		
B415748	Dissolved-Low Level Sulphate (SO4)	2024/06/25	102	80 - 120	103	80 - 120	<0.050	mg/L	NC	20		
B415754	Nitrate (N)	2024/06/25	106	80 - 120	101	80 - 120	<0.0020	mg/L	2.8	20		
B415754	Nitrite (N)	2024/06/25	106	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B415793	Chloride (Cl)	2024/06/25	107	80 - 120	102	80 - 120	<0.50	mg/L	NC	20		
B415895	Total Mercury (Hg)	2024/06/26	99	80 - 120	95	80 - 120	<0.0000019	mg/L	5.0	20		
B416044	Acidity (pH 4.5)	2024/06/25					<1.0	mg/L	NC	20		
B416044	Acidity (pH 8.3)	2024/06/25			97	80 - 120	<1.0	mg/L	NC	20		
B416156	Alkalinity (PP as CaCO3)	2024/06/26					<0.50	mg/L	NC	20		
B416156	Alkalinity (Total as CaCO3)	2024/06/26			99	80 - 120	0.56, RDL=0.50 (1)	mg/L	0.47	20		
B416156	Bicarbonate (HCO3)	2024/06/26					0.69, RDL=0.50 (1)	mg/L	0.47	20		
B416156	Carbonate (CO3)	2024/06/26					<0.50	mg/L	NC	20		
B416156	Hydroxide (OH)	2024/06/26					<0.50	mg/L	NC	20		
B416163	pH	2024/06/26			101	97 - 103			0.30	N/A		
B416164	Conductivity	2024/06/26			100	90 - 110	<1.0	uS/cm	0.22	20		
B416167	Fluoride (F)	2024/06/26	101	80 - 120	101	80 - 120	<0.010	mg/L	3.4	20		
B416171	Alkalinity (PP as CaCO3)	2024/06/26					<0.50	mg/L	NC	20		
B416171	Alkalinity (Total as CaCO3)	2024/06/26			100	80 - 120	<0.50	mg/L	1.3	20		
B416171	Bicarbonate (HCO3)	2024/06/26					<0.50	mg/L	1.3	20		
B416171	Carbonate (CO3)	2024/06/26					<0.50	mg/L	NC	20		
B416171	Hydroxide (OH)	2024/06/26					<0.50	mg/L	NC	20		
B416174	pH	2024/06/26			101	97 - 103			0.88	N/A		
B416175	Conductivity	2024/06/26			100	90 - 110	<1.0	uS/cm	2.3	20		
B416176	Fluoride (F)	2024/06/26	97	80 - 120	100	80 - 120	<0.010	mg/L	16	20		
B416182	Alkalinity (PP as CaCO3)	2024/06/26					<0.50	mg/L	NC	20		
B416182	Alkalinity (Total as CaCO3)	2024/06/26			99	80 - 120	<0.50	mg/L	3.5	20		
B416182	Bicarbonate (HCO3)	2024/06/26					<0.50	mg/L	3.5	20		
B416182	Carbonate (CO3)	2024/06/26					<0.50	mg/L	NC	20		
B416182	Hydroxide (OH)	2024/06/26					<0.50	mg/L	NC	20		

BUREAU
VERITAS

Bureau Veritas Job #: C445697

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B416184	pH	2024/06/26			101	97 - 103			0.76	N/A		
B416187	Conductivity	2024/06/26			100	90 - 110	<1.0	uS/cm	0.78	20		
B416192	Fluoride (F)	2024/06/26	99	80 - 120	103	80 - 120	<0.010	mg/L	NC	20		
B416943	Total Phosphorus (P)	2024/06/26	107	80 - 120	95	80 - 120	<0.0010	mg/L	17	20	93	80 - 120
B417080	Dissolved Mercury (Hg)	2024/06/28	97	80 - 120	100	80 - 120	<0.0000019	mg/L	NC	20		
B418634	Total Phosphorus (P)	2024/06/28	105	80 - 120	95	80 - 120	<0.0010	mg/L	1.2	20	93	80 - 120
B421940	Total Aluminum (Al)	2024/06/29	95	80 - 120	99	80 - 120	<0.0030	mg/L	23 (2)	20		
B421940	Total Antimony (Sb)	2024/06/29	107	80 - 120	103	80 - 120	<0.00060	mg/L				
B421940	Total Arsenic (As)	2024/06/29	102	80 - 120	103	80 - 120	<0.00020	mg/L	4.9	20		
B421940	Total Beryllium (Be)	2024/06/29	101	80 - 120	102	80 - 120	<0.0010	mg/L				
B421940	Total Cadmium (Cd)	2024/06/29	100	80 - 120	101	80 - 120	<0.000020	mg/L				
B421940	Total Chromium (Cr)	2024/06/29	98	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
B421940	Total Cobalt (Co)	2024/06/29	98	80 - 120	100	80 - 120	<0.00030	mg/L				
B421940	Total Copper (Cu)	2024/06/29	96	80 - 120	101	80 - 120	<0.0010	mg/L				
B421940	Total Lead (Pb)	2024/06/29	102	80 - 120	104	80 - 120	<0.00020	mg/L				
B421940	Total Molybdenum (Mo)	2024/06/29	105	80 - 120	102	80 - 120	<0.00020	mg/L				
B421940	Total Nickel (Ni)	2024/06/29	98	80 - 120	100	80 - 120	<0.00050	mg/L				
B421940	Total Selenium (Se)	2024/06/29	100	80 - 120	102	80 - 120	<0.00020	mg/L	7.6	20		
B421940	Total Silver (Ag)	2024/06/29	100	80 - 120	102	80 - 120	<0.00010	mg/L				
B421940	Total Thallium (Tl)	2024/06/29	104	80 - 120	106	80 - 120	<0.00020	mg/L				
B421940	Total Tin (Sn)	2024/06/29	104	80 - 120	101	80 - 120	<0.0010	mg/L				
B421940	Total Titanium (Ti)	2024/06/29	96	80 - 120	95	80 - 120	<0.0010	mg/L				
B421940	Total Uranium (U)	2024/06/29	104	80 - 120	104	80 - 120	<0.00010	mg/L				
B421940	Total Vanadium (V)	2024/06/29	102	80 - 120	102	80 - 120	<0.0010	mg/L				
B421940	Total Zinc (Zn)	2024/06/29	99	80 - 120	102	80 - 120	<0.0030	mg/L				
B421941	Total Barium (Ba)	2024/06/29	112	80 - 120	108	80 - 120	<0.010	mg/L	0.34	20		
B421941	Total Boron (B)	2024/06/29	112	80 - 120	107	80 - 120	<0.020	mg/L	1.6	20		
B421941	Total Calcium (Ca)	2024/06/29	105	80 - 120	102	80 - 120	<0.30	mg/L				
B421941	Total Iron (Fe)	2024/06/29	NC	80 - 120	106	80 - 120	<0.060	mg/L	5.6	20		
B421941	Total Lithium (Li)	2024/06/29	101	80 - 120	99	80 - 120	<0.020	mg/L				
B421941	Total Magnesium (Mg)	2024/06/29	108	80 - 120	106	80 - 120	<0.20	mg/L	0.93	20		
B421941	Total Manganese (Mn)	2024/06/29	113	80 - 120	107	80 - 120	<0.0040	mg/L	5.2	20		

BUREAU
VERITAS

Bureau Veritas Job #: C445697

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QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B421941	Total Potassium (K)	2024/06/29	108	80 - 120	103	80 - 120	<0.30	mg/L				
B421941	Total Silicon (Si)	2024/06/29	145 (2)	80 - 120	99	80 - 120	<0.50	mg/L				
B421941	Total Sodium (Na)	2024/06/29	NC	80 - 120	103	80 - 120	<0.50	mg/L				
B421941	Total Strontium (Sr)	2024/06/29	113	80 - 120	108	80 - 120	<0.020	mg/L				
B421941	Total Sulphur (S)	2024/06/29	NC	80 - 120	108	80 - 120	<0.20	mg/L				
B421943	Total Aluminum (Al)	2024/06/29	NC	80 - 120	94	80 - 120	<0.0030	mg/L	14	20		
B421943	Total Antimony (Sb)	2024/06/29	107	80 - 120	104	80 - 120	<0.00060	mg/L	NC	20		
B421943	Total Arsenic (As)	2024/06/29	104	80 - 120	101	80 - 120	<0.00020	mg/L	8.9	20		
B421943	Total Beryllium (Be)	2024/06/29	99	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
B421943	Total Cadmium (Cd)	2024/06/29	99	80 - 120	97	80 - 120	<0.000020	mg/L	NC	20		
B421943	Total Chromium (Cr)	2024/06/29	100	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
B421943	Total Cobalt (Co)	2024/06/29	96	80 - 120	97	80 - 120	<0.00030	mg/L	NC	20		
B421943	Total Copper (Cu)	2024/06/29	91	80 - 120	99	80 - 120	<0.0010	mg/L	10	20		
B421943	Total Lead (Pb)	2024/06/29	92	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20		
B421943	Total Molybdenum (Mo)	2024/06/29	112	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20		
B421943	Total Nickel (Ni)	2024/06/29	94	80 - 120	97	80 - 120	<0.00050	mg/L	19	20		
B421943	Total Selenium (Se)	2024/06/29	101	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20		
B421943	Total Silver (Ag)	2024/06/29	95	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20		
B421943	Total Thallium (Tl)	2024/06/29	73 (2)	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20		
B421943	Total Tin (Sn)	2024/06/29	108	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
B421943	Total Titanium (Ti)	2024/06/29	104	80 - 120	93	80 - 120	<0.0010	mg/L	2.0	20		
B421943	Total Uranium (U)	2024/06/29	101	80 - 120	102	80 - 120	<0.00010	mg/L	18	20		
B421943	Total Vanadium (V)	2024/06/29	107	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
B421943	Total Zinc (Zn)	2024/06/29	92	80 - 120	100	80 - 120	<0.0030	mg/L	NC	20		
B421946	Total Barium (Ba)	2024/06/30	101	80 - 120	105	80 - 120	<0.010	mg/L	4.1	20		
B421946	Total Boron (B)	2024/06/30	92	80 - 120	95	80 - 120	<0.020	mg/L	NC	20		
B421946	Total Calcium (Ca)	2024/06/30	NC	80 - 120	105	80 - 120	<0.30	mg/L	4.0	20		
B421946	Total Iron (Fe)	2024/06/30	NC	80 - 120	110	80 - 120	<0.060	mg/L	6.1	20		
B421946	Total Lithium (Li)	2024/06/30	95	80 - 120	101	80 - 120	<0.020	mg/L	NC	20		
B421946	Total Magnesium (Mg)	2024/06/30	NC	80 - 120	108	80 - 120	<0.20	mg/L	3.7	20		
B421946	Total Manganese (Mn)	2024/06/30	93	80 - 120	107	80 - 120	<0.0040	mg/L	3.6	20		
B421946	Total Potassium (K)	2024/06/30	102	80 - 120	105	80 - 120	<0.30	mg/L	4.9	20		



BUREAU
VERITAS

Bureau Veritas Job #: C445697

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B421946	Total Silicon (Si)	2024/06/30	96	80 - 120	104	80 - 120	<0.50	mg/L	7.7	20		
B421946	Total Sodium (Na)	2024/06/30	NC	80 - 120	104	80 - 120	<0.50	mg/L	3.9	20		
B421946	Total Strontium (Sr)	2024/06/30	NC	80 - 120	99	80 - 120	<0.020	mg/L	2.8	20		
B421946	Total Sulphur (S)	2024/06/30	NC	80 - 120	105	80 - 120	<0.20	mg/L	4.5	20		
B423548	Radium 226	2024/06/27			93	85 - 115	<0.010	Bq/l				
B423753	Total Organic Carbon (C)	2024/07/02	103	80 - 120	105	80 - 120	<0.20	mg/L	5.6	20		
B423911	Turbidity - NTU	2024/07/02			100	80 - 120	<0.10	NTU	2.0	20		

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.

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

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

(1) Method blank exceeds acceptance limits, $2 \times \text{RDL}$ acceptable for low level analysis

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C445697

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

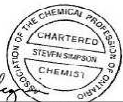
Client Project #: 61045

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

VALIDATION SIGNATURE PAGE

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



Steven Simpson, Lab Director

Gita Pokhrel, Laboratory Supervisor

Rahul Suryawanshi, Senior Analyst

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

Veronica Falk, B.Sc., P.Chem., QP, Scientific Specialist, Organics

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.

SO# 61048



Burgundy Contact: Richard Ehlert / Jonah Kelly



BURGUNDY
DIAMOND MINES

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

[illegible]

Time

Send Analytical Results to: compliance.team@burgundydiamonds.com



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101510

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/08
Report #: R3524184
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C445653

Received: 2024/06/20, 09:50

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity pH 4.5 & pH 8.3 (as CaCO ₃)	4	N/A	2024/06/23	AB SOP-00005	SM 24 2310 B m
Alkalinity - Low Level	4	N/A	2024/06/26	AB SOP-00005	SM 24 2320 B m
Low level chloride/sulphate by AC	4	N/A	2024/06/24	AB SOP-00020	SM24-4500-Cl/SO ₄ -E m
Conductance - Low Level	4	N/A	2024/06/26	AB SOP-00005	SM 24 2510 B m
Fluoride - Low Level	4	N/A	2024/06/26	AB SOP-00005	SM 24 4500-F C m
Hardness Total (calculated as CaCO ₃) (2)	4	N/A	2024/06/28	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (3)	3	2024/06/25	2024/06/26	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV (3)	1	2024/06/26	2024/06/27	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	4	2024/06/25	2024/06/27	AB SOP-00084	BCMOE BCLM Oct2013 m
Elements by ICP - Dissolved (3)	2	N/A	2024/06/24	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Dissolved (3)	2	N/A	2024/06/25	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	3	2024/06/26	2024/06/26	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	1	2024/06/26	2024/06/27	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS - Dissolved (3)	4	N/A	2024/06/23	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total	4	2024/06/26	2024/06/27	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	4	N/A	2024/06/25	AB SOP-00007	SM 24 4500 NH ₃ A G m
Nitrate + Nitrite-N (calculated) Low Lev	4	N/A	2024/06/24		Auto Calc
Nitrogen (Nitrite - Nitrate) Low Level	4	N/A	2024/06/21	AB SOP-00023	SM 24 4110 B m
pH @25°C (4)	4	N/A	2024/06/26	AB SOP-00005	SM 24 4500-H+B m
pH (Field)	4	N/A	2024/06/20	Field Test	Field Test
Orthophosphate LL by Automated Analyzer (5)	2	N/A	2024/06/23	AB SOP-00025	SM 24 4500-P A, F m
Orthophosphate LL by Automated Analyzer (5)	2	N/A	2024/06/29	AB SOP-00025	SM 24 4500-P A, F m
Sulphate (SO ₄) by IC	4	N/A	2024/06/21	AB SOP-00026	SM 24 4110 B m
Temperature (Field)	4	N/A	2024/06/20	Field Test	Field Test
Total Kjeldahl Nitrogen (Total)	4	N/A	2024/06/25	BBY WI-00033	Auto Calc
Nitrogen (Total)	4	2024/06/24	2024/06/25	AB SOP-00093	SM 24 4500-N C m
Carbon (Total Organic) (6)	4	N/A	2024/06/24	AB SOP-00087	MMCW 119 1996 m
Total Phosphorus Low Level Dissolved (7)	2	2024/06/25	2024/06/27	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Dissolved (7)	2	2024/06/29	2024/07/02	AB SOP-00024	SM 24 4500-P A,B,F m



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101510

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/08
Report #: R3524184
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C445653

Received: 2024/06/20, 09:50

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Total Phosphorus Low Level Total	1	2024/06/25	2024/06/25	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	1	2024/06/25	2024/06/26	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	1	2024/06/26	2024/06/26	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	1	2024/06/29	2024/07/02	AB SOP-00024	SM 24 4500-P A,B,F m
Total Suspended Solids (NFR)	4	2024/06/25	2024/06/26	AB SOP-00061	SM 24 2540 D m
Turbidity	4	N/A	2024/06/21	CAL SOP-00081	SM 24 2130 B m
Ion Balance (8)	4	N/A	2024/06/28		
Total Dissolved Solids (Calculated) (8)	4	N/A	2024/06/28		
Radium Isotopes by Alpha Spectrometry (1, 9)	2	N/A	2024/07/05	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

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, EPA, APHA or the Quebec Ministry of Environment.

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.

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 Kitimat, 6790 Kitimat Rd., Unit 4, Mississauga, Ontario, L5N 5L9



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101510

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/08
Report #: R3524184
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C445653

Received: 2024/06/20, 09:50

- (2) "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).
- (3) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
- (5) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (6) TOC present in the sample should be considered as non-purgeable TOC.
- (7) Dissolved Phosphorus > Total Phosphorus Imbalance: When applicable, Dissolved Phosphorus and Total Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (8) Calculation was conducted as per client request using CAL PDF-00333.
- (9) Radium-226 results have not been corrected for blanks.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Geraldlyn Gouthro, Key Account Specialist
Email: geraldlyn.gouthro@bureauveritas.com
Phone# (403) 291-3077

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BUREAU
VERITAS

Bureau Veritas Job #: C445653

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPS143			CPS144			CPS145		
Sampling Date		2024/06/18 11:31			2024/06/18 13:10			2024/06/18 13:24		
COC Number		101510			101510			101510		
	UNITS	SEEP-377	RDL	QC Batch	SEEP-391	RDL	QC Batch	SEEP-454	RDL	QC Batch
RADIONUCLIDE										
Radium 226	Bq/l				<0.010	0.010	B430424	<0.010	0.010	B430424
Calculated Parameters										
Total Hardness (CaCO ₃)	mg/L	88.9	0.50	B410299	10.6	0.50	B410299	11.0	0.50	B410299
Calculated Ion Balance (% Difference)	%	3.0		B410032	0.27		B410032	0.30		B410032
Nitrate plus Nitrite (N)	mg/L	0.28	0.0022	B410024	0.024	0.0022	B410024	0.026	0.0022	B410024
Calculated Total Dissolved Solids	mg/L	120	0.95	B410033	20	0.95	B410033	20	0.95	B410033
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.073	0.020	B410811	0.175	0.020	B410811	0.122	0.020	B410811
Field Parameters										
Field pH	pH	7.90	N/A	ONSITE	6.66	N/A	ONSITE	6.66	N/A	ONSITE
Field Temperature (Fd)	deg. C	1.2	N/A	ONSITE	4.2	N/A	ONSITE	4.2	N/A	ONSITE
Misc. Inorganics										
Fluoride (F)	mg/L	0.060	0.010	B416167	0.019	0.010	B416167	0.019	0.010	B416167
pH	pH	7.61	N/A	B416163	6.74	N/A	B416163	6.77	N/A	B416163
Acidity (pH 4.5)	mg/L	<1.0	1.0	B412135	<1.0	1.0	B412135	<1.0	1.0	B412135
Alkalinity (Total as CaCO ₃)	mg/L	58.3	0.50	B416156	7.94	0.50	B416156	8.82	0.50	B416156
Total Organic Carbon (C)	mg/L	0.73	0.20	B414850	1.8	0.20	B414850	1.9	0.20	B414850
Acidity (pH 8.3)	mg/L	1.4	1.0	B412135	1.5	1.0	B412135	1.4	1.0	B412135
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	B416156	<0.50	0.50	B416156	<0.50	0.50	B416156
Bicarbonate (HCO ₃)	mg/L	71.1	0.50	B416156	9.69	0.50	B416156	10.8	0.50	B416156
Carbonate (CO ₃)	mg/L	<0.50	0.50	B416156	<0.50	0.50	B416156	<0.50	0.50	B416156
Hydroxide (OH)	mg/L	<0.50	0.50	B416156	<0.50	0.50	B416156	<0.50	0.50	B416156
Total Suspended Solids	mg/L	39	0.99	B415235	<1.0	1.0	B415235	<0.97	0.97	B415235
Anions										
Orthophosphate (P)	mg/L	0.0086	0.0020	B422203	<0.0010	0.0010	B413656	<0.0010	0.0010	B413656
Chloride (Cl)	mg/L	<0.50	0.50	B414606	0.62	0.50	B414606	0.51	0.50	B414606
Dissolved-Low Level Sulphate (SO ₄)	mg/L	41	0.30	B411543	7.6	0.30	B411543	7.5	0.30	B411543
Nutrients										
Dissolved Phosphorus (P)	mg/L	0.0048 (1)	0.0020	B421983	<0.0020	0.0020	B415371	<0.0020	0.0020	B415371
Total Phosphorus (P)	mg/L	0.038	0.0020	B416943	0.0027	0.0020	B416943	0.0021	0.0020	B415335
Total Ammonia (N)	mg/L	<0.0050	0.0050	B415284	<0.0050	0.0050	B415284	<0.0050	0.0050	B415284
RDL = Reportable Detection Limit										
N/A = Not Applicable										
(1) Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.										



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPS143			CPS144			CPS145		
Sampling Date		2024/06/18 11:31			2024/06/18 13:10			2024/06/18 13:24		
COC Number		101510			101510			101510		
	UNITS	SEEP-377	RDL	QC Batch	SEEP-391	RDL	QC Batch	SEEP-454	RDL	QC Batch
Nitrite (N)	mg/L	0.0025	0.0010	B412406	<0.0010	0.0010	B412406	<0.0010	0.0010	B412406
Nitrate (N)	mg/L	0.28	0.0020	B412406	0.024	0.0020	B412406	0.026	0.0020	B412406
Total Nitrogen (N)	mg/L	0.35	0.020	B414074	0.20	0.020	B414074	0.15	0.020	B414074
Physical Properties										
Conductivity	uS/cm	200	1.0	B416164	38.4	1.0	B416164	38.3	1.0	B416164
Physical Properties										
Turbidity - NTU	NTU	11	0.10	B412054	0.10	0.10	B412056	0.15	0.10	B412056
RDL = Reportable Detection Limit										

**RESULTS OF CHEMICAL ANALYSES OF WATER**

Bureau Veritas ID		CPS146		
Sampling Date		2024/06/18 10:45		
COC Number		101510		
	UNITS	SEEP-510	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO ₃)	mg/L	67.2	0.50	B410299
Calculated Ion Balance (% Difference)	%	6.0		B410032
Nitrate plus Nitrite (N)	mg/L	0.36	0.0022	B410024
Calculated Total Dissolved Solids	mg/L	110	0.95	B410033
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.099	0.020	B410811
Field Parameters				
Field pH	pH	7.69	N/A	ONSITE
Field Temperature (Fd)	deg. C	0.8	N/A	ONSITE
Misc. Inorganics				
Fluoride (F)	mg/L	0.064	0.010	B416167
pH	pH	7.38	N/A	B416163
Acidity (pH 4.5)	mg/L	<1.0	1.0	B412135
Alkalinity (Total as CaCO ₃)	mg/L	49.0	0.50	B416156
Total Organic Carbon (C)	mg/L	0.76	0.20	B414850
Acidity (pH 8.3)	mg/L	1.8	1.0	B412135
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	B416156
Bicarbonate (HCO ₃)	mg/L	59.8	0.50	B416156
Carbonate (CO ₃)	mg/L	<0.50	0.50	B416156
Hydroxide (OH)	mg/L	<0.50	0.50	B416156
Total Suspended Solids	mg/L	15	1.0	B415235
Anions				
Orthophosphate (P)	mg/L	0.0088	0.0010	B422203
Chloride (Cl)	mg/L	<0.50	0.50	B414606
Dissolved-Low Level Sulphate (SO ₄)	mg/L	44	0.30	B411543
Nutrients				
Dissolved Phosphorus (P)	mg/L	0.0057 (1)	0.0020	B421983
Total Phosphorus (P)	mg/L	0.010	0.0020	B421976
Total Ammonia (N)	mg/L	<0.0050	0.0050	B415284
Nitrite (N)	mg/L	0.0013	0.0010	B412406
RDL = Reportable Detection Limit N/A = Not Applicable (1) Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.				



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPS146		
Sampling Date		2024/06/18 10:45		
COC Number		101510		
	UNITS	SEEP-510	RDL	QC Batch
Nitrate (N)	mg/L	0.36	0.0020	B412406
Total Nitrogen (N)	mg/L	0.46	0.020	B414074
Physical Properties				
Conductivity	uS/cm	181	1.0	B416164
Physical Properties				
Turbidity - NTU	NTU	8.0	0.10	B412056
RDL = Reportable Detection Limit				



MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID		CPS143		CPS144	CPS145	CPS146		
Sampling Date		2024/06/18 11:31		2024/06/18 13:10	2024/06/18 13:24	2024/06/18 10:45		
COC Number		101510		101510	101510	101510		
	UNITS	SEEP-377	QC Batch	SEEP-391	SEEP-454	SEEP-510	RDL	QC Batch
Elements								
Dissolved Mercury (Hg)	mg/L	<0.0000019	B417044	<0.0000019	<0.0000019	<0.0000019	0.0000019	B415661
Total Mercury (Hg)	mg/L	<0.0000019	B415664	<0.0000019	<0.0000019	<0.0000019	0.0000019	B415664
RDL = Reportable Detection Limit								



BUREAU
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Bureau Veritas Job #: C445653

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CPS143		CPS144		CPS145	CPS146		
Sampling Date		2024/06/18 11:31		2024/06/18 13:10		2024/06/18 13:24	2024/06/18 10:45		
COC Number		101510		101510		101510	101510		
	UNITS	SEEP-377	QC Batch	SEEP-391	QC Batch	SEEP-454	SEEP-510	RDL	QC Batch
Elements									
Dissolved Aluminum (Al)	mg/L	0.011	B412917	0.0099	B412917	0.0091	0.013	0.0030	B412917
Total Aluminum (Al)	mg/L	0.58	B417189	0.021	B417512	0.018	0.10	0.0030	B417512
Dissolved Antimony (Sb)	mg/L	<0.00060	B412917	<0.00060	B412917	<0.00060	<0.00060	0.00060	B412917
Total Antimony (Sb)	mg/L	<0.00060	B417189	<0.00060	B417512	<0.00060	<0.00060	0.00060	B417512
Dissolved Arsenic (As)	mg/L	0.0019	B412917	<0.00020	B412917	<0.00020	0.0030	0.00020	B412917
Total Arsenic (As)	mg/L	0.0023	B417189	0.00024	B417512	0.00029	0.0034	0.00020	B417512
Dissolved Barium (Ba)	mg/L	0.025	B415178	<0.010	B415178	<0.010	0.033	0.010	B415024
Total Barium (Ba)	mg/L	0.034	B417196	<0.010	B417516	<0.010	0.033	0.010	B417516
Dissolved Beryllium (Be)	mg/L	<0.0010	B412917	<0.0010	B412917	<0.0010	<0.0010	0.0010	B412917
Total Beryllium (Be)	mg/L	<0.0010	B417189	<0.0010	B417512	<0.0010	<0.0010	0.0010	B417512
Dissolved Boron (B)	mg/L	<0.020	B415178	<0.020	B415178	<0.020	<0.020	0.020	B415024
Total Boron (B)	mg/L	<0.020	B417196	<0.020	B417516	<0.020	<0.020	0.020	B417516
Dissolved Cadmium (Cd)	mg/L	<0.000020	B412917	<0.000020	B412917	<0.000020	<0.000020	0.000020	B412917
Total Cadmium (Cd)	mg/L	<0.000020	B417189	0.000022	B417512	<0.000020	<0.000020	0.000020	B417512
Dissolved Calcium (Ca)	mg/L	24	B415178	2.3	B415178	2.4	20	0.30	B415024
Total Calcium (Ca)	mg/L	26	B417196	2.2	B417516	2.3	19	0.30	B417516
Dissolved Chromium (Cr)	mg/L	<0.0010	B412917	<0.0010	B412917	<0.0010	<0.0010	0.0010	B412917
Total Chromium (Cr)	mg/L	0.0023	B417189	<0.0010	B417512	<0.0010	<0.0010	0.0010	B417512
Dissolved Cobalt (Co)	mg/L	<0.00030	B412917	<0.00030	B412917	<0.00030	<0.00030	0.00030	B412917
Total Cobalt (Co)	mg/L	0.00053	B417189	<0.00030	B417512	<0.00030	<0.00030	0.00030	B417512
Dissolved Copper (Cu)	mg/L	<0.0010	B412917	<0.0010	B412917	<0.0010	0.0011	0.0010	B412917
Total Copper (Cu)	mg/L	0.0021	B417189	<0.0010	B417512	<0.0010	0.0015	0.0010	B417512
Dissolved Iron (Fe)	mg/L	<0.060	B415178	<0.060	B415178	0.10	0.17	0.060	B415024
Total Iron (Fe)	mg/L	0.79	B417196	<0.060	B417516	<0.060	0.10	0.060	B417516
Dissolved Lead (Pb)	mg/L	<0.00020	B412917	<0.00020	B412917	<0.00020	0.00022	0.00020	B412917
Total Lead (Pb)	mg/L	0.00031	B417189	<0.00020	B417512	0.00045	<0.00020	0.00020	B417512
Dissolved Lithium (Li)	mg/L	<0.020	B415178	<0.020	B415178	<0.020	<0.020	0.020	B415024
Total Lithium (Li)	mg/L	<0.020	B417196	<0.020	B417516	<0.020	0.024	0.020	B417516
Dissolved Magnesium (Mg)	mg/L	4.9	B415178	1.4	B415178	1.3	4.9	0.20	B415024
Total Magnesium (Mg)	mg/L	5.9	B417196	1.2	B417516	1.3	4.8	0.20	B417516
Dissolved Manganese (Mn)	mg/L	<0.0040	B415178	<0.0040	B415178	<0.0040	<0.0040	0.0040	B415024
Total Manganese (Mn)	mg/L	0.014	B417196	<0.0040	B417516	<0.0040	<0.0040	0.0040	B417516
RDL = Reportable Detection Limit									



BUREAU
VERITAS

Bureau Veritas Job #: C445653

Report Date: 2024/07/08

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CPS143		CPS144		CPS145	CPS146		
Sampling Date		2024/06/18 11:31		2024/06/18 13:10		2024/06/18 13:24	2024/06/18 10:45		
COC Number		101510		101510		101510	101510		
	UNITS	SEEP-377	QC Batch	SEEP-391	QC Batch	SEEP-454	SEEP-510	RDL	QC Batch
Dissolved Molybdenum (Mo)	mg/L	0.0043	B412917	0.00046	B412917	0.00040	0.0056	0.00020	B412917
Total Molybdenum (Mo)	mg/L	0.0043	B417189	0.00079	B417512	0.00067	0.0064	0.00020	B417512
Dissolved Nickel (Ni)	mg/L	0.00095	B412917	0.00054	B412917	0.00053	0.0016	0.00050	B412917
Total Nickel (Ni)	mg/L	0.0038	B417189	0.00083	B417512	0.00085	0.0022	0.00050	B417512
Dissolved Potassium (K)	mg/L	6.1	B415178	1.2	B415178	1.4	5.8	0.30	B415024
Total Potassium (K)	mg/L	6.7	B417196	1.3	B417516	1.3	5.6	0.30	B417516
Dissolved Selenium (Se)	mg/L	<0.00020	B412917	<0.00020	B412917	<0.00020	0.00024	0.00020	B412917
Total Selenium (Se)	mg/L	<0.00020	B417189	<0.00020	B417512	<0.00020	0.00027	0.00020	B417512
Dissolved Silicon (Si)	mg/L	2.8	B415178	<0.50	B415178	0.58	2.9	0.50	B415024
Total Silicon (Si)	mg/L	4.6	B417196	1.1	B417516	0.60	3.1	0.50	B417516
Dissolved Silver (Ag)	mg/L	<0.00010	B412917	<0.00010	B412917	<0.00010	<0.00010	0.00010	B412917
Total Silver (Ag)	mg/L	<0.00010	B417189	<0.00010	B417512	<0.00010	<0.00010	0.00010	B417512
Dissolved Sodium (Na)	mg/L	3.8	B415178	2.1	B415178	2.1	4.8	0.50	B415024
Total Sodium (Na)	mg/L	4.3	B417196	2.1	B417516	2.1	5.0	0.50	B417516
Dissolved Strontium (Sr)	mg/L	0.19	B415178	<0.020	B415178	<0.020	0.16	0.020	B415024
Total Strontium (Sr)	mg/L	0.21	B417196	<0.020	B417516	<0.020	0.15	0.020	B417516
Dissolved Sulphur (S)	mg/L	12	B415178	2.3	B415178	2.8	15	0.20	B415024
Total Sulphur (S)	mg/L	13	B417196	2.5	B417516	2.4	14	0.20	B417516
Dissolved Thallium (Tl)	mg/L	<0.00020	B412917	<0.00020	B412917	<0.00020	<0.00020	0.00020	B412917
Total Thallium (Tl)	mg/L	<0.00020	B417189	<0.00020	B417512	<0.00020	<0.00020	0.00020	B417512
Dissolved Tin (Sn)	mg/L	<0.0010	B412917	<0.0010	B412917	<0.0010	<0.0010	0.0010	B412917
Total Tin (Sn)	mg/L	<0.0010	B417189	<0.0010	B417512	<0.0010	<0.0010	0.0010	B417512
Dissolved Titanium (Ti)	mg/L	<0.0010	B412917	<0.0010	B412917	<0.0010	<0.0010	0.0010	B412917
Total Titanium (Ti)	mg/L	0.035	B417189	<0.0010	B417512	<0.0010	0.0051	0.0010	B417512
Dissolved Uranium (U)	mg/L	0.019	B412917	0.00056	B412917	0.00057	0.0097	0.00010	B412917
Total Uranium (U)	mg/L	0.017	B417189	0.00077	B417512	0.00073	0.011	0.00010	B417512
Dissolved Vanadium (V)	mg/L	0.0086	B412917	<0.0010	B412917	<0.0010	0.0046	0.0010	B412917
Total Vanadium (V)	mg/L	0.010	B417189	<0.0010	B417512	<0.0010	0.0053	0.0010	B417512
Dissolved Zinc (Zn)	mg/L	<0.0030	B412917	<0.0030	B412917	<0.0030	<0.0030	0.0030	B412917
Total Zinc (Zn)	mg/L	0.0035	B417189	<0.0030	B417512	<0.0030	<0.0030	0.0030	B417512

RDL = Reportable Detection Limit



GENERAL COMMENTS

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

Package 1	3.4°C
Package 2	3.4°C
Package 3	3.2°C
Package 4	4.2°C
Package 5	4.6°C
Package 6	2.7°C
Package 7	4.7°C
Package 8	2.8°C
Package 9	5.3°C
Package 10	4.3°C
Package 11	2.5°C
Package 12	3.0°C
Package 13	2.1°C
Package 14	2.4°C

Sample CPS143 [SEEP-377] : Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CPS146 [SEEP-510] : Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Results relate only to the items tested.

BUREAU
VERITAS

Bureau Veritas Job #: C445653

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B411543	Dissolved-Low Level Sulphate (SO4)	2024/06/21	NC	80 - 120	99	80 - 120	<0.050	mg/L	1.4	20		
B412054	Turbidity - NTU	2024/06/21			100	80 - 120	<0.10	NTU	11	20		
B412056	Turbidity - NTU	2024/06/21			101	80 - 120	<0.10	NTU	3.8	20		
B412135	Acidity (pH 4.5)	2024/06/23					<1.0	mg/L	NC	20		
B412135	Acidity (pH 8.3)	2024/06/23			100	80 - 120	1.4, RDL=1.0 (1)	mg/L	NC	20		
B412406	Nitrate (N)	2024/06/21	NC	80 - 120	100	80 - 120	<0.0020	mg/L	30 (2)	20		
B412406	Nitrite (N)	2024/06/21	NC	80 - 120	95	80 - 120	<0.0010	mg/L	0.21	20		
B412917	Dissolved Aluminum (Al)	2024/06/23	80	80 - 120	115	80 - 120	<0.0030	mg/L	2.8	20		
B412917	Dissolved Antimony (Sb)	2024/06/23	96	80 - 120	98	80 - 120	<0.00060	mg/L	NC	20		
B412917	Dissolved Arsenic (As)	2024/06/23	102	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20		
B412917	Dissolved Beryllium (Be)	2024/06/23	99	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
B412917	Dissolved Cadmium (Cd)	2024/06/23	98	80 - 120	100	80 - 120	<0.000020	mg/L				
B412917	Dissolved Chromium (Cr)	2024/06/23	99	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20		
B412917	Dissolved Cobalt (Co)	2024/06/23	99	80 - 120	104	80 - 120	<0.00030	mg/L	NC	20		
B412917	Dissolved Copper (Cu)	2024/06/23	97	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20		
B412917	Dissolved Lead (Pb)	2024/06/23	97	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20		
B412917	Dissolved Molybdenum (Mo)	2024/06/23	101	80 - 120	101	80 - 120	<0.00020	mg/L	8.0	20		
B412917	Dissolved Nickel (Ni)	2024/06/23	98	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20		
B412917	Dissolved Selenium (Se)	2024/06/23	101	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20		
B412917	Dissolved Silver (Ag)	2024/06/23	95	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20		
B412917	Dissolved Thallium (Tl)	2024/06/23	100	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20		
B412917	Dissolved Tin (Sn)	2024/06/23	96	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
B412917	Dissolved Titanium (Ti)	2024/06/23	92	80 - 120	102	80 - 120	<0.0010	mg/L	8.0	20		
B412917	Dissolved Uranium (U)	2024/06/23	100	80 - 120	102	80 - 120	<0.00010	mg/L	NC	20		
B412917	Dissolved Vanadium (V)	2024/06/23	100	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20		
B412917	Dissolved Zinc (Zn)	2024/06/23	96	80 - 120	103	80 - 120	<0.0030	mg/L	NC	20		
B413656	Orthophosphate (P)	2024/06/23	90	80 - 120	101	80 - 120	<0.0010	mg/L				
B414074	Total Nitrogen (N)	2024/06/25	NC	80 - 120	104	80 - 120	<0.020	mg/L	0.011	20	106	80 - 120
B414606	Chloride (Cl)	2024/06/24	97	80 - 120	101	80 - 120	<0.50	mg/L	NC	20		
B414850	Total Organic Carbon (C)	2024/06/24	109	80 - 120	108	80 - 120	<0.20	mg/L	7.2	20		
B415024	Dissolved Barium (Ba)	2024/06/24	96	80 - 120	97	80 - 120	<0.010	mg/L	1.2	20		
B415024	Dissolved Boron (B)	2024/06/24	94	80 - 120	93	80 - 120	<0.020	mg/L	16	20		

BUREAU
VERITAS

Bureau Veritas Job #: C445653

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B415024	Dissolved Calcium (Ca)	2024/06/24	93	80 - 120	99	80 - 120	<0.30	mg/L	13	20		
B415024	Dissolved Iron (Fe)	2024/06/24	NC	80 - 120	99	80 - 120	<0.060	mg/L	0.94	20		
B415024	Dissolved Lithium (Li)	2024/06/24	94	80 - 120	95	80 - 120	<0.020	mg/L	NC	20		
B415024	Dissolved Magnesium (Mg)	2024/06/24	95	80 - 120	97	80 - 120	<0.20	mg/L	0.14	20		
B415024	Dissolved Manganese (Mn)	2024/06/24	99	80 - 120	98	80 - 120	<0.0040	mg/L	2.0	20		
B415024	Dissolved Potassium (K)	2024/06/24	97	80 - 120	98	80 - 120	<0.30	mg/L	15	20		
B415024	Dissolved Silicon (Si)	2024/06/24	92	80 - 120	96	80 - 120	<0.50	mg/L	1.1	20		
B415024	Dissolved Sodium (Na)	2024/06/24	96	80 - 120	96	80 - 120	<0.50	mg/L	14	20		
B415024	Dissolved Strontium (Sr)	2024/06/24	94	80 - 120	96	80 - 120	<0.020	mg/L	0.19	20		
B415024	Dissolved Sulphur (S)	2024/06/24	99	80 - 120	95	80 - 120	<0.20	mg/L	7.1	20		
B415178	Dissolved Barium (Ba)	2024/06/25	95	80 - 120	94	80 - 120	<0.010	mg/L	8.2	20		
B415178	Dissolved Boron (B)	2024/06/25	102	80 - 120	100	80 - 120	<0.020	mg/L	NC	20		
B415178	Dissolved Calcium (Ca)	2024/06/25	100	80 - 120	99	80 - 120	<0.30	mg/L	0.17	20		
B415178	Dissolved Iron (Fe)	2024/06/25	100	80 - 120	100	80 - 120	<0.060	mg/L	NC	20		
B415178	Dissolved Lithium (Li)	2024/06/25	102	80 - 120	103	80 - 120	<0.020	mg/L	NC	20		
B415178	Dissolved Magnesium (Mg)	2024/06/25	103	80 - 120	102	80 - 120	<0.20	mg/L	0.50	20		
B415178	Dissolved Manganese (Mn)	2024/06/25	103	80 - 120	104	80 - 120	<0.0040	mg/L	NC	20		
B415178	Dissolved Potassium (K)	2024/06/25	99	80 - 120	98	80 - 120	<0.30	mg/L	0.93	20		
B415178	Dissolved Silicon (Si)	2024/06/25	89	80 - 120	92	80 - 120	<0.50	mg/L	0.71	20		
B415178	Dissolved Sodium (Na)	2024/06/25	102	80 - 120	100	80 - 120	<0.50	mg/L	0.69	20		
B415178	Dissolved Strontium (Sr)	2024/06/25	93	80 - 120	92	80 - 120	<0.020	mg/L	0.22	20		
B415178	Dissolved Sulphur (S)	2024/06/25	96	80 - 120	94	80 - 120	<0.20	mg/L	0.86	20		
B415235	Total Suspended Solids	2024/06/26	105	80 - 120	95	80 - 120	<1.0	mg/L	NC	20		
B415284	Total Ammonia (N)	2024/06/25	103	80 - 120	109	80 - 120	<0.0050	mg/L	NC	20		
B415335	Total Phosphorus (P)	2024/06/26	100	80 - 120	94	80 - 120	<0.0010	mg/L	11	20	90	N/A
B415371	Dissolved Phosphorus (P)	2024/06/27	103	80 - 120	97	80 - 120	<0.0010	mg/L	3.0	20	93	80 - 120
B415661	Dissolved Mercury (Hg)	2024/06/26	99	80 - 120	90	80 - 120	<0.0000019	mg/L	NC	20		
B415664	Total Mercury (Hg)	2024/06/27	99	80 - 120	100	80 - 120	<0.0000019	mg/L	NC	20		
B416156	Alkalinity (PP as CaCO3)	2024/06/26					<0.50	mg/L	NC	20		
B416156	Alkalinity (Total as CaCO3)	2024/06/26			99	80 - 120	0.56, RDL=0.50 (3)	mg/L	0.47	20		
B416156	Bicarbonate (HCO3)	2024/06/26					0.69, RDL=0.50 (3)	mg/L	0.47	20		

BUREAU
VERITAS

Bureau Veritas Job #: C445653

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B416156	Carbonate (CO ₃)	2024/06/26					<0.50	mg/L	NC	20		
B416156	Hydroxide (OH)	2024/06/26					<0.50	mg/L	NC	20		
B416163	pH	2024/06/26			101	97 - 103			0.30	N/A		
B416164	Conductivity	2024/06/26			100	90 - 110	<1.0	uS/cm	0.22	20		
B416167	Fluoride (F)	2024/06/26	101	80 - 120	101	80 - 120	<0.010	mg/L	3.4	20		
B416943	Total Phosphorus (P)	2024/06/26	107	80 - 120	95	80 - 120	<0.0010	mg/L	17	20	93	80 - 120
B417044	Dissolved Mercury (Hg)	2024/06/27	101	80 - 120	99	80 - 120	<0.0000019	mg/L	NC	20		
B417189	Total Aluminum (Al)	2024/06/27	92	80 - 120	95	80 - 120	<0.0030	mg/L	4.9	20		
B417189	Total Antimony (Sb)	2024/06/27	90	80 - 120	91	80 - 120	<0.00060	mg/L	4.7	20		
B417189	Total Arsenic (As)	2024/06/27	96	80 - 120	95	80 - 120	<0.00020	mg/L	2.0	20		
B417189	Total Beryllium (Be)	2024/06/27	86	80 - 120	91	80 - 120	<0.0010	mg/L	NC	20		
B417189	Total Cadmium (Cd)	2024/06/27	90	80 - 120	90	80 - 120	<0.000020	mg/L	6.7	20		
B417189	Total Chromium (Cr)	2024/06/27	91	80 - 120	90	80 - 120	<0.0010	mg/L	1.1	20		
B417189	Total Cobalt (Co)	2024/06/27	89	80 - 120	89	80 - 120	<0.00030	mg/L	2.4	20		
B417189	Total Copper (Cu)	2024/06/27	89	80 - 120	90	80 - 120	<0.0010	mg/L	0.38	20		
B417189	Total Lead (Pb)	2024/06/27	87	80 - 120	89	80 - 120	<0.00020	mg/L	NC	20		
B417189	Total Molybdenum (Mo)	2024/06/27	93	80 - 120	90	80 - 120	<0.00020	mg/L	1.4	20		
B417189	Total Nickel (Ni)	2024/06/27	89	80 - 120	89	80 - 120	<0.00050	mg/L	0.26	20		
B417189	Total Selenium (Se)	2024/06/27	80	80 - 120	91	80 - 120	<0.00020	mg/L	3.7	20		
B417189	Total Silver (Ag)	2024/06/27	89	80 - 120	88	80 - 120	<0.00010	mg/L	NC	20		
B417189	Total Thallium (Tl)	2024/06/27	92	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20		
B417189	Total Tin (Sn)	2024/06/27	90	80 - 120	88	80 - 120	<0.0010	mg/L	NC	20		
B417189	Total Titanium (Ti)	2024/06/27	91	80 - 120	89	80 - 120	<0.0010	mg/L	6.3	20		
B417189	Total Uranium (U)	2024/06/27	93	80 - 120	93	80 - 120	<0.00010	mg/L	1.4	20		
B417189	Total Vanadium (V)	2024/06/27	93	80 - 120	91	80 - 120	<0.0010	mg/L	2.9	20		
B417189	Total Zinc (Zn)	2024/06/27	91	80 - 120	93	80 - 120	<0.0030	mg/L	6.2	20		
B417196	Total Barium (Ba)	2024/06/27	103	80 - 120	101	80 - 120	<0.010	mg/L	1.1	20		
B417196	Total Boron (B)	2024/06/27	98	80 - 120	99	80 - 120	<0.020	mg/L	3.6	20		
B417196	Total Calcium (Ca)	2024/06/27	105	80 - 120	103	80 - 120	<0.30	mg/L	2.2	20		
B417196	Total Iron (Fe)	2024/06/27	98	80 - 120	105	80 - 120	<0.060	mg/L	3.5	20		
B417196	Total Lithium (Li)	2024/06/27	105	80 - 120	101	80 - 120	<0.020	mg/L	NC	20		
B417196	Total Magnesium (Mg)	2024/06/27	107	80 - 120	105	80 - 120	<0.20	mg/L	3.1	20		
B417196	Total Manganese (Mn)	2024/06/27	104	80 - 120	106	80 - 120	<0.0040	mg/L	3.0	20		

BUREAU
VERITAS

Bureau Veritas Job #: C445653

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B417196	Total Potassium (K)	2024/06/27	107	80 - 120	102	80 - 120	<0.30	mg/L	0.98	20		
B417196	Total Silicon (Si)	2024/06/27	97	80 - 120	100	80 - 120	<0.50	mg/L	5.4	20		
B417196	Total Sodium (Na)	2024/06/27	111	80 - 120	107	80 - 120	<0.50	mg/L	2.0	20		
B417196	Total Strontium (Sr)	2024/06/27	99	80 - 120	98	80 - 120	<0.020	mg/L	0.74	20		
B417196	Total Sulphur (S)	2024/06/27	95	80 - 120	104	80 - 120	<0.20	mg/L	3.3	20		
B417512	Total Aluminum (Al)	2024/06/27	108	80 - 120	104	80 - 120	<0.0030	mg/L	7.3	20		
B417512	Total Antimony (Sb)	2024/06/27	101	80 - 120	100	80 - 120	<0.00060	mg/L	0.64	20		
B417512	Total Arsenic (As)	2024/06/27	106	80 - 120	105	80 - 120	<0.00020	mg/L	5.4	20		
B417512	Total Beryllium (Be)	2024/06/27	104	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
B417512	Total Cadmium (Cd)	2024/06/27	107	80 - 120	104	80 - 120	<0.000020	mg/L	14	20		
B417512	Total Chromium (Cr)	2024/06/27	102	80 - 120	100	80 - 120	<0.0010	mg/L	9.1	20		
B417512	Total Cobalt (Co)	2024/06/27	102	80 - 120	102	80 - 120	<0.00030	mg/L	6.8	20		
B417512	Total Copper (Cu)	2024/06/27	102	80 - 120	103	80 - 120	<0.0010	mg/L	6.8	20		
B417512	Total Lead (Pb)	2024/06/27	102	80 - 120	102	80 - 120	<0.00020	mg/L	14	20		
B417512	Total Molybdenum (Mo)	2024/06/27	108	80 - 120	103	80 - 120	<0.00020	mg/L	7.9	20		
B417512	Total Nickel (Ni)	2024/06/27	103	80 - 120	102	80 - 120	<0.00050	mg/L	6.3	20		
B417512	Total Selenium (Se)	2024/06/27	106	80 - 120	105	80 - 120	<0.00020	mg/L	7.1	20		
B417512	Total Silver (Ag)	2024/06/27	104	80 - 120	102	80 - 120	<0.00010	mg/L	NC	20		
B417512	Total Thallium (Tl)	2024/06/27	108	80 - 120	108	80 - 120	<0.00020	mg/L	NC	20		
B417512	Total Tin (Sn)	2024/06/27	107	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
B417512	Total Titanium (Ti)	2024/06/27	102	80 - 120	99	80 - 120	<0.0010	mg/L	3.3	20		
B417512	Total Uranium (U)	2024/06/27	107	80 - 120	105	80 - 120	<0.00010	mg/L	7.2	20		
B417512	Total Vanadium (V)	2024/06/27	104	80 - 120	101	80 - 120	<0.0010	mg/L	4.4	20		
B417512	Total Zinc (Zn)	2024/06/27	103	80 - 120	103	80 - 120	<0.0030	mg/L	14	20		
B417516	Total Barium (Ba)	2024/06/26	101	80 - 120	101	80 - 120	<0.010	mg/L	1.0	20		
B417516	Total Boron (B)	2024/06/26	100	80 - 120	97	80 - 120	<0.020	mg/L	3.0	20		
B417516	Total Calcium (Ca)	2024/06/26	105	80 - 120	102	80 - 120	<0.30	mg/L	2.2	20		
B417516	Total Iron (Fe)	2024/06/26	105	80 - 120	103	80 - 120	<0.060	mg/L	1.6	20		
B417516	Total Lithium (Li)	2024/06/26	101	80 - 120	100	80 - 120	<0.020	mg/L	4.2	20		
B417516	Total Magnesium (Mg)	2024/06/26	104	80 - 120	103	80 - 120	<0.20	mg/L	2.0	20		
B417516	Total Manganese (Mn)	2024/06/26	106	80 - 120	104	80 - 120	<0.0040	mg/L	0.91	20		
B417516	Total Potassium (K)	2024/06/26	103	80 - 120	101	80 - 120	<0.30	mg/L	1.0	20		
B417516	Total Silicon (Si)	2024/06/26	95	80 - 120	97	80 - 120	<0.50	mg/L	3.2	20		

BUREAU
VERITAS

Bureau Veritas Job #: C445653

Report Date: 2024/07/08

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B417516	Total Sodium (Na)	2024/06/26	108	80 - 120	106	80 - 120	<0.50	mg/L	2.9	20		
B417516	Total Strontium (Sr)	2024/06/26	99	80 - 120	98	80 - 120	<0.020	mg/L	2.1	20		
B417516	Total Sulphur (S)	2024/06/26	100	80 - 120	102	80 - 120	<0.20	mg/L	1.3	20		
B421976	Total Phosphorus (P)	2024/07/02	101	80 - 120	95	80 - 120	<0.0010	mg/L	0.50	20	91	80 - 120
B421983	Dissolved Phosphorus (P)	2024/07/02	98	80 - 120	96	80 - 120	<0.0010	mg/L	9.2	20	92	80 - 120
B422203	Orthophosphate (P)	2024/06/29	97	80 - 120	98	80 - 120	<0.0010	mg/L				
B430424	Radium 226	2024/07/05			88	85 - 115	<0.010	Bq/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 $\leq$ 2x RDL).

(1) Method blank exceeds acceptance limits, 2x RDL acceptable for acidity analysis

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(3) Method blank exceeds acceptance limits, 2x RDL acceptable for low level analysis



BUREAU
VERITAS

Bureau Veritas Job #: C445653

Report Date: 2024/07/08

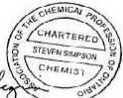
Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

VALIDATION SIGNATURE PAGE

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



Steven Simpson, Lab Director

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

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

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.

SO# 61045



Burgundy Contact: Richard Ehlert / Jonah Kelly



BURGUNDY
DIAMOND MINES

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

[illegible]

Send Analytical Results to: compliance.team@burgundydiamonds.com



**BUREAU
VERITAS**

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #		COOLER OBSERVATIONS:		BV JOB#:	
Page _____ of _____		CUSTODY SEAL	YES NO	COOLER ID	
Page _____ of _____		PRESENT	☒	TEMP	2.9 3.5 3.9
Page _____ of _____		INTACT	☒		
Page _____ of _____		ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES NO	COOLER ID	
Page _____ of _____		PRESENT	☒	TEMP	3.6 3.5 3.2
Page _____ of _____		INTACT	☒		
Page _____ of _____		ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES NO	COOLER ID	
Page _____ of _____		PRESENT	☒	TEMP	3.1 2.6 3.9
Page _____ of _____		INTACT	☒		
Page _____ of _____		ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES NO	COOLER ID	
Page _____ of _____		PRESENT	☒	TEMP	5.1 3.6 4.0
Page _____ of _____		INTACT	☒		
Page _____ of _____		ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES NO	COOLER ID	
Page _____ of _____		PRESENT	☒	TEMP	5.5 4.1 4.1
Page _____ of _____		INTACT	☒		
Page _____ of _____		ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES NO	COOLER ID	
Page _____ of _____		PRESENT	☒	TEMP	3.1 2.6 2.9
Page _____ of _____		INTACT	☒		
Page _____ of _____		ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES NO	COOLER ID	
Page _____ of _____		PRESENT	☒	TEMP	3.9 5.1 5.1
Page _____ of _____		INTACT	☒		
Page _____ of _____		ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES NO	COOLER ID	
Page _____ of _____		PRESENT	☒	TEMP	2.1 3.1 3.1
Page _____ of _____		INTACT	☒		
Page _____ of _____		ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES NO	COOLER ID	
Page _____ of _____		PRESENT	☒	TEMP	6.0 5.0 4.9
Page _____ of _____		INTACT	☒		
Page _____ of _____		ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES NO	COOLER ID	
Page _____ of _____		PRESENT	☒	TEMP	2.9 5.1 5.0
Page _____ of _____		INTACT	☒		
Page _____ of _____		ICE PRESENT	☒		
		CUSTODY SEAL	YES NO	COOLER ID	
		PRESENT	☒	TEMP	
		INTACT	☒		
		ICE PRESENT	☒		

RECEIVED BY (SIGN & PRINT)

[Signature]

DATE (YYYY/MM/DD)

2024/06/20

TIME (HH:MM)

09:50



Your P.O. #: 6404002992
 Your Project #: 62829
 Site Location: MDMER/SNP/SEEPAGE
 Your C.O.C. #: 101582

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
 900, 606 4 Street SW
 Calgary, AB
 CANADA T2P 1T1

Report Date: 2024/07/14
 Report #: R3526909
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448047

Received: 2024/06/27, 15:00

Sample Matrix: Water
 # Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity pH 4.5 & pH 8.3 (as CaCO3)	2	N/A	2024/06/28	AB SOP-00005	SM 24 2310 B m
Alkalinity - Low Level	2	N/A	2024/07/09	AB SOP-00005	SM 24 2320 B m
Low level chloride/sulphate by AC	1	N/A	2024/06/28	AB SOP-00020	SM24-4500-Cl/SO4-E m
Low level chloride/sulphate by AC	1	N/A	2024/07/02	AB SOP-00020	SM24-4500-Cl/SO4-E m
Conductance - Low Level	2	N/A	2024/07/09	AB SOP-00005	SM 24 2510 B m
Fluoride - Low Level	2	N/A	2024/07/09	AB SOP-00005	SM 24 4500-F C m
Hardness Total (calculated as CaCO3) (1)	2	N/A	2024/07/09	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (2)	2	2024/07/03	2024/07/05	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	2	2024/07/03	2024/07/05	AB SOP-00084	BCMOE BCLM Oct2013 m
Elements by ICP - Dissolved (2)	2	N/A	2024/06/29	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	2	2024/07/09	2024/07/09	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS - Dissolved (2)	2	N/A	2024/06/29	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total	2	2024/07/09	2024/07/09	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	2	N/A	2024/07/02	AB SOP-00007	SM 24 4500 NH3 A G m
Nitrate + Nitrite-N (calculated) Low Lev	1	N/A	2024/07/03		Auto Calc
Nitrate + Nitrite-N (calculated) Low Lev	1	N/A	2024/07/04		Auto Calc
Nitrogen (Nitrite - Nitrate) Low Level	2	N/A	2024/06/28	AB SOP-00023	SM 24 4110 B m
pH @25°C (3)	2	N/A	2024/07/09	AB SOP-00005	SM 24 4500-H+B m
pH (Field)	2	N/A	2024/06/27	Field Test	Field Test
Orthophosphate LL by Automated Analyzer (4)	2	N/A	2024/06/28	AB SOP-00025	SM 24 4500-P A, F m
Sulphate (SO4) by IC	1	N/A	2024/06/28	AB SOP-00026	SM 24 4110 B m
Sulphate (SO4) by IC	1	N/A	2024/07/08	AB SOP-00026	SM 24 4110 B m
Temperature (Field)	2	N/A	2024/06/27	Field Test	Field Test
Total Kjeldahl Nitrogen (Total)	1	N/A	2024/07/03	BBY WI-00033	Auto Calc
Total Kjeldahl Nitrogen (Total)	1	N/A	2024/07/04	BBY WI-00033	Auto Calc
Nitrogen (Total)	2	2024/06/28	2024/07/02	AB SOP-00093	SM 24 4500-N C m
Carbon (Total Organic) (5)	2	N/A	2024/07/12	AB SOP-00087	MMCW 119 1996 m
Total Phosphorus Low Level Dissolved (6)	2	2024/06/29	2024/07/02	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	2	2024/06/29	2024/07/02	AB SOP-00024	SM 24 4500-P A,B,F m
Total Suspended Solids (NFR)	2	2024/06/28	2024/06/28	AB SOP-00061	SM 24 2540 D m



Your P.O. #: 6404002992
Your Project #: 62829
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101582

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/14
Report #: R3526909
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448047

Received: 2024/06/27, 15:00

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Turbidity	2	N/A	2024/06/28	CAL SOP-00081	SM 24 2130 B m
Ion Balance (7)	2	N/A	2024/07/09		
Total Dissolved Solids (Calculated) (7)	2	N/A	2024/07/10		

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, EPA, APHA or the Quebec Ministry of Environment.

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) "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).

(2) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(3) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

(4) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.

(5) TOC present in the sample should be considered as non-purgeable TOC.

(6) Dissolved Phosphorus > Total Phosphorus Imbalance: When applicable, Dissolved Phosphorus and Total Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.

(7) Calculation was conducted as per client request using CAL PDF-00333.



Your P.O. #: 6404002992
Your Project #: 62829
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101582

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/14
Report #: R3526909
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448047

Received: 2024/06/27, 15:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Geraldlyn Gouthro, Key Account Specialist
Email: geraldlyn.gouthro@bureauveritas.com
Phone# (403) 291-3077

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**RESULTS OF CHEMICAL ANALYSES OF WATER**

Bureau Veritas ID		CQF008		CQF009		
Sampling Date		2024/06/19 12:39		2024/06/19 13:05		
COC Number		101582		101582		
	UNITS	SEEP-388	QC Batch	SEEP-536	RDL	QC Batch
Calculated Parameters						
Total Hardness (CaCO ₃)	mg/L	49.0	B418673	49.6	0.50	B418673
Calculated Ion Balance (% Difference)	%	1.1	B419701	0.32		B419701
Nitrate plus Nitrite (N)	mg/L	0.086	B419698	0.086	0.0022	B419698
Calculated Total Dissolved Solids	mg/L	84	B419703	84	0.95	B419703
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.318	B423540	0.247	0.020	B423540
Field Parameters						
Field pH	pH	7.45	ONSITE	7.39	N/A	ONSITE
Field Temperature (Fd)	deg. C	1.9	ONSITE	2.4	N/A	ONSITE
Misc. Inorganics						
Fluoride (F)	mg/L	0.033	B431384	0.039	0.010	B431384
pH	pH	7.35	B431381	7.44	N/A	B431381
Acidity (pH 4.5)	mg/L	<1.0	B421336	<1.0	1.0	B421336
Alkalinity (Total as CaCO ₃)	mg/L	39.3	B431379	40.2	0.50	B431379
Total Organic Carbon (C)	mg/L	3.0	B435064	3.2	0.20	B435064
Acidity (pH 8.3)	mg/L	2.6	B421336	4.8	1.0	B421336
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	B431379	<0.50	0.50	B431379
Bicarbonate (HCO ₃)	mg/L	47.9	B431379	49.1	0.50	B431379
Carbonate (CO ₃)	mg/L	<0.50	B431379	<0.50	0.50	B431379
Hydroxide (OH)	mg/L	<0.50	B431379	<0.50	0.50	B431379
Total Suspended Solids	mg/L	29	B419910	22	1.0	B419910
Anions						
Orthophosphate (P)	mg/L	0.0027	B420401	0.0042	0.0010	B420401
Chloride (Cl)	mg/L	1.6	B423453	<0.50	0.50	B420885
Dissolved-Low Level Sulphate (SO ₄)	mg/L	29	B421388	30	0.30	B430043
Nutrients						
Dissolved Phosphorus (P)	mg/L	0.0040	B421983	0.0028 (1)	0.0020	B421983
Total Phosphorus (P)	mg/L	0.032	B421976	0.015	0.0020	B421976
Total Ammonia (N)	mg/L	0.016	B423085	0.017	0.0050	B423085
Nitrite (N)	mg/L	0.0013	B420703	0.0016	0.0010	B421448
RDL = Reportable Detection Limit						
N/A = Not Applicable						
(1) Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.						



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQF008		CQF009		
Sampling Date		2024/06/19 12:39		2024/06/19 13:05		
COC Number		101582		101582		
	UNITS	SEEP-388	QC Batch	SEEP-536	RDL	QC Batch
Nitrate (N)	mg/L	0.085	B420703	0.084	0.0020	B421448
Total Nitrogen (N)	mg/L	0.40	B420701	0.33	0.020	B420701
Physical Properties						
Conductivity	uS/cm	142	B431382	149	1.0	B431382
Physical Properties						
Turbidity - NTU	NTU	7.5	B420515	6.5	0.10	B420515
RDL = Reportable Detection Limit						



MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID		CQF008	CQF009		
Sampling Date		2024/06/19 12:39	2024/06/19 13:05		
COC Number		101582	101582		
	UNITS	SEEP-388	SEEP-536	RDL	QC Batch
Elements					
Dissolved Mercury (Hg)	mg/L	<0.0000019	<0.0000019	0.0000019	B424604
Total Mercury (Hg)	mg/L	0.0000021	0.0000022	0.0000019	B424650
RDL = Reportable Detection Limit					



BUREAU
VERITAS

Bureau Veritas Job #: C448047

Report Date: 2024/07/14

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQF008	CQF009		
Sampling Date		2024/06/19 12:39	2024/06/19 13:05		
COC Number		101582	101582		
	UNITS	SEEP-388	SEEP-536	RDL	QC Batch
Elements					
Dissolved Aluminum (Al)	mg/L	0.0099	0.013	0.0030	B422002
Total Aluminum (Al)	mg/L	0.27	0.17	0.0030	B431318
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B422002
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B431318
Dissolved Arsenic (As)	mg/L	0.00054	0.00059	0.00020	B422002
Total Arsenic (As)	mg/L	0.00058	0.00069	0.00020	B431318
Dissolved Barium (Ba)	mg/L	0.030	0.028	0.010	B421965
Total Barium (Ba)	mg/L	0.027	0.027	0.010	B431321
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B422002
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B431318
Dissolved Boron (B)	mg/L	<0.020	<0.020	0.020	B421965
Total Boron (B)	mg/L	<0.020	<0.020	0.020	B431321
Dissolved Cadmium (Cd)	mg/L	<0.000020	<0.000020	0.000020	B422002
Total Cadmium (Cd)	mg/L	<0.000020	<0.000020	0.000020	B431318
Dissolved Calcium (Ca)	mg/L	13	13	0.30	B421965
Total Calcium (Ca)	mg/L	13	14	0.30	B431321
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B422002
Total Chromium (Cr)	mg/L	0.0011	<0.0010	0.0010	B431318
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	0.00030	B422002
Total Cobalt (Co)	mg/L	0.00031	<0.00030	0.00030	B431318
Dissolved Copper (Cu)	mg/L	0.0014	0.0014	0.0010	B422002
Total Copper (Cu)	mg/L	0.0021	0.0019	0.0010	B431318
Dissolved Iron (Fe)	mg/L	0.13	0.13	0.060	B421965
Total Iron (Fe)	mg/L	0.52	0.35	0.060	B431321
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	0.00020	B422002
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00020	B431318
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	0.020	B421965
Total Lithium (Li)	mg/L	<0.020	<0.020	0.020	B431321
Dissolved Magnesium (Mg)	mg/L	3.5	3.6	0.20	B421965
Total Magnesium (Mg)	mg/L	3.7	3.7	0.20	B431321
Dissolved Manganese (Mn)	mg/L	0.0096	0.013	0.0040	B421965
RDL = Reportable Detection Limit					



BUREAU
VERITAS

Bureau Veritas Job #: C448047

Report Date: 2024/07/14

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQF008	CQF009		
Sampling Date		2024/06/19 12:39	2024/06/19 13:05		
COC Number		101582	101582		
	UNITS	SEEP-388	SEEP-536	RDL	QC Batch
Total Manganese (Mn)	mg/L	0.015	0.013	0.0040	B431321
Dissolved Molybdenum (Mo)	mg/L	0.0053	0.0056	0.00020	B422002
Total Molybdenum (Mo)	mg/L	0.0057	0.0063	0.00020	B431318
Dissolved Nickel (Ni)	mg/L	0.0019	0.0024	0.00050	B422002
Total Nickel (Ni)	mg/L	0.0033	0.0031	0.00050	B431318
Dissolved Potassium (K)	mg/L	4.0	4.2	0.30	B421965
Total Potassium (K)	mg/L	4.4	4.5	0.30	B431321
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B422002
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B431318
Dissolved Silicon (Si)	mg/L	<0.50	0.60	0.50	B421965
Total Silicon (Si)	mg/L	1.0	0.93	0.50	B431321
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B422002
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B431318
Dissolved Sodium (Na)	mg/L	7.0	7.2	0.50	B421965
Total Sodium (Na)	mg/L	7.1	7.3	0.50	B431321
Dissolved Strontium (Sr)	mg/L	0.11	0.11	0.020	B421965
Total Strontium (Sr)	mg/L	0.094	0.097	0.020	B431321
Dissolved Sulphur (S)	mg/L	9.0	9.5	0.20	B421965
Total Sulphur (S)	mg/L	8.4	8.8	0.20	B431321
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B422002
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B431318
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B422002
Total Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B431318
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	0.0010	B422002
Total Titanium (Ti)	mg/L	0.018	0.011	0.0010	B431318
Dissolved Uranium (U)	mg/L	0.0045	0.0041	0.00010	B422002
Total Uranium (U)	mg/L	0.0049	0.0044	0.00010	B431318
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B422002
Total Vanadium (V)	mg/L	0.0016	0.0014	0.0010	B431318
Dissolved Zinc (Zn)	mg/L	<0.0030	<0.0030	0.0030	B422002
Total Zinc (Zn)	mg/L	<0.0030	<0.0030	0.0030	B431318
RDL = Reportable Detection Limit					



GENERAL COMMENTS

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

Package 1	6.5°C
Package 2	5.9°C
Package 3	5.5°C
Package 4	5.4°C
Package 5	7.2°C
Package 6	5.0°C
Package 7	4.2°C
Package 8	5.2°C
Package 9	3.3°C
Package 10	3.0°C
Package 11	3.5°C
Package 12	4.8°C
Package 13	4.8°C
Package 14	5.8°C
Package 15	4.4°C
Package 16	5.3°C
Package 17	2.6°C
Package 18	2.8°C
Package 19	2.2°C
Package 20	4.2°C
Package 21	3.8°C
Package 22	3.8°C
Package 23	1.6°C
Package 24	0.3°C
Package 25	2.2°C

Sample CQF008 [SEEP-388] : Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level. Sample was analyzed past method specified hold time for Alkalinity - Low Level.

Sample CQF009 [SEEP-536] : Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level. Sample was analyzed past method specified hold time for Alkalinity - Low Level.

RESULTS OF CHEMICAL ANALYSES OF WATER Comments

Sample CQF008 [SEEP-388] Orthophosphate LL by Automated Analyzer: Samples of job # C448015,C448055,C448047,C448079 received passed HT from FV,Proceed with analysis

Results relate only to the items tested.

BUREAU
VERITAS

Bureau Veritas Job #: C448047

Report Date: 2024/07/14

QUALITY ASSURANCE REPORT

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B419910	Total Suspended Solids	2024/06/28	98	80 - 120	98	80 - 120	<0.99	mg/L	11	20		
B420401	Orthophosphate (P)	2024/06/28	94	80 - 120	109	80 - 120	<0.0010	mg/L	6.1	20		
B420515	Turbidity - NTU	2024/06/28			99	80 - 120	<0.10	NTU	1.9	20		
B420701	Total Nitrogen (N)	2024/07/02	106	80 - 120	112	80 - 120	<0.020	mg/L	0.20	20	108	80 - 120
B420703	Nitrate (N)	2024/06/28	105	80 - 120	103	80 - 120	<0.0020	mg/L	0.10	20		
B420703	Nitrite (N)	2024/06/28	102	80 - 120	100	80 - 120	<0.0010	mg/L	0.34	20		
B420885	Chloride (Cl)	2024/06/28	NC	80 - 120	105	80 - 120	<0.50	mg/L	0.40	20		
B421336	Acidity (pH 4.5)	2024/06/28					<1.0	mg/L	NC	20		
B421336	Acidity (pH 8.3)	2024/06/28			100	80 - 120	<1.0	mg/L	NC	20		
B421388	Dissolved-Low Level Sulphate (SO4)	2024/06/28	102	80 - 120	101	80 - 120	<0.050	mg/L	0.88	20		
B421448	Nitrate (N)	2024/06/28	NC	80 - 120	103	80 - 120	<0.0020	mg/L	0.0033	20		
B421448	Nitrite (N)	2024/06/28	100	80 - 120	98	80 - 120	<0.0010	mg/L	0.10	20		
B421965	Dissolved Barium (Ba)	2024/06/29	109	80 - 120	108	80 - 120	<0.010	mg/L	12	20		
B421965	Dissolved Boron (B)	2024/06/29	109	80 - 120	107	80 - 120	<0.020	mg/L	NC	20		
B421965	Dissolved Calcium (Ca)	2024/06/29	105	80 - 120	102	80 - 120	<0.30	mg/L	1.1	20		
B421965	Dissolved Iron (Fe)	2024/06/29	100	80 - 120	120	80 - 120	<0.060	mg/L	4.4	20		
B421965	Dissolved Lithium (Li)	2024/06/29	101	80 - 120	100	80 - 120	<0.020	mg/L	NC	20		
B421965	Dissolved Magnesium (Mg)	2024/06/29	108	80 - 120	106	80 - 120	<0.20	mg/L	1.3	20		
B421965	Dissolved Manganese (Mn)	2024/06/29	98	80 - 120	101	80 - 120	<0.0040	mg/L	4.8	20		
B421965	Dissolved Potassium (K)	2024/06/29	106	80 - 120	105	80 - 120	<0.30	mg/L	3.0	20		
B421965	Dissolved Silicon (Si)	2024/06/29	101	80 - 120	102	80 - 120	<0.50	mg/L	NC	20		
B421965	Dissolved Sodium (Na)	2024/06/29	107	80 - 120	105	80 - 120	<0.50	mg/L	0.095	20		
B421965	Dissolved Strontium (Sr)	2024/06/29	111	80 - 120	108	80 - 120	<0.020	mg/L	0.30	20		
B421965	Dissolved Sulphur (S)	2024/06/29	113	80 - 120	105	80 - 120	<0.20	mg/L	0.058	20		
B421976	Total Phosphorus (P)	2024/07/02	101	80 - 120	95	80 - 120	<0.0010	mg/L	0.50	20	91	80 - 120
B421983	Dissolved Phosphorus (P)	2024/07/02	98	80 - 120	96	80 - 120	<0.0010	mg/L	9.2	20	92	80 - 120
B422002	Dissolved Aluminum (Al)	2024/06/29	100	80 - 120	110	80 - 120	<0.0030	mg/L				
B422002	Dissolved Antimony (Sb)	2024/06/29	101	80 - 120	101	80 - 120	<0.00060	mg/L				
B422002	Dissolved Arsenic (As)	2024/06/29	104	80 - 120	102	80 - 120	<0.00020	mg/L	8.6	20		
B422002	Dissolved Beryllium (Be)	2024/06/29	100	80 - 120	101	80 - 120	<0.0010	mg/L				
B422002	Dissolved Cadmium (Cd)	2024/06/29	100	80 - 120	98	80 - 120	<0.000020	mg/L				
B422002	Dissolved Chromium (Cr)	2024/06/29	100	80 - 120	101	80 - 120	<0.0010	mg/L	1.4	20		

BUREAU
VERITAS

Bureau Veritas Job #: C448047

Report Date: 2024/07/14

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B422002	Dissolved Cobalt (Co)	2024/06/29	97	80 - 120	101	80 - 120	<0.00030	mg/L				
B422002	Dissolved Copper (Cu)	2024/06/29	96	80 - 120	102	80 - 120	<0.0010	mg/L	3.4	20		
B422002	Dissolved Lead (Pb)	2024/06/29	95	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20		
B422002	Dissolved Molybdenum (Mo)	2024/06/29	106	80 - 120	102	80 - 120	<0.00020	mg/L				
B422002	Dissolved Nickel (Ni)	2024/06/29	99	80 - 120	101	80 - 120	<0.00050	mg/L				
B422002	Dissolved Selenium (Se)	2024/06/29	106	80 - 120	100	80 - 120	<0.00020	mg/L				
B422002	Dissolved Silver (Ag)	2024/06/29	98	80 - 120	100	80 - 120	<0.00010	mg/L				
B422002	Dissolved Thallium (Tl)	2024/06/29	97	80 - 120	99	80 - 120	<0.00020	mg/L				
B422002	Dissolved Tin (Sn)	2024/06/29	103	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
B422002	Dissolved Titanium (Ti)	2024/06/29	100	80 - 120	102	80 - 120	<0.0010	mg/L				
B422002	Dissolved Uranium (U)	2024/06/29	101	80 - 120	102	80 - 120	<0.00010	mg/L				
B422002	Dissolved Vanadium (V)	2024/06/29	103	80 - 120	103	80 - 120	<0.0010	mg/L				
B422002	Dissolved Zinc (Zn)	2024/06/29	NC	80 - 120	108	80 - 120	<0.0030	mg/L	1.5	20		
B423085	Total Ammonia (N)	2024/07/02	NC	80 - 120	103	80 - 120	<0.0050	mg/L	0.99	20		
B423453	Chloride (Cl)	2024/07/02	98	80 - 120	100	80 - 120	<0.50	mg/L				
B424604	Dissolved Mercury (Hg)	2024/07/05	90	80 - 120	99	80 - 120	<0.0000019	mg/L	NC	20		
B424650	Total Mercury (Hg)	2024/07/05	90	80 - 120	101	80 - 120	<0.0000019	mg/L	NC	20		
B430043	Dissolved-Low Level Sulphate (SO4)	2024/07/08	NC	80 - 120	99	80 - 120	<0.050	mg/L	0.0012	20		
B431318	Total Aluminum (Al)	2024/07/09	103	80 - 120	98	80 - 120	<0.0030	mg/L	5.5	20		
B431318	Total Antimony (Sb)	2024/07/09	105	80 - 120	96	80 - 120	<0.00060	mg/L	NC	20		
B431318	Total Arsenic (As)	2024/07/09	104	80 - 120	97	80 - 120	<0.00020	mg/L	15	20		
B431318	Total Beryllium (Be)	2024/07/09	102	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B431318	Total Cadmium (Cd)	2024/07/09	98	80 - 120	93	80 - 120	<0.000020	mg/L				
B431318	Total Chromium (Cr)	2024/07/09	103	80 - 120	96	80 - 120	<0.0010	mg/L	15	20		
B431318	Total Cobalt (Co)	2024/07/09	102	80 - 120	97	80 - 120	<0.00030	mg/L	9.4	20		
B431318	Total Copper (Cu)	2024/07/09	97	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B431318	Total Lead (Pb)	2024/07/09	94	80 - 120	92	80 - 120	<0.00020	mg/L	NC	20		
B431318	Total Molybdenum (Mo)	2024/07/09	109	80 - 120	95	80 - 120	<0.00020	mg/L	3.5	20		
B431318	Total Nickel (Ni)	2024/07/09	98	80 - 120	96	80 - 120	<0.00050	mg/L	16	20		
B431318	Total Selenium (Se)	2024/07/09	101	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20		
B431318	Total Silver (Ag)	2024/07/09	96	80 - 120	94	80 - 120	<0.00010	mg/L	NC	20		
B431318	Total Thallium (Tl)	2024/07/09	93	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20		



**BUREAU
VERITAS**

Bureau Veritas Job #: C448047

Report Date: 2024/07/14

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B431318	Total Tin (Sn)	2024/07/09	104	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20		
B431318	Total Titanium (Ti)	2024/07/09	107	80 - 120	95	80 - 120	<0.0010	mg/L	2.8	20		
B431318	Total Uranium (U)	2024/07/09	104	80 - 120	94	80 - 120	<0.00010	mg/L	12	20		
B431318	Total Vanadium (V)	2024/07/09	108	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B431318	Total Zinc (Zn)	2024/07/09	98	80 - 120	95	80 - 120	<0.0030	mg/L	NC	20		
B431321	Total Barium (Ba)	2024/07/09	98	80 - 120	95	80 - 120	<0.010	mg/L	0.37	20		
B431321	Total Boron (B)	2024/07/09	96	80 - 120	95	80 - 120	<0.020	mg/L	1.2	20		
B431321	Total Calcium (Ca)	2024/07/09	103	80 - 120	100	80 - 120	<0.30	mg/L	5.6	20		
B431321	Total Iron (Fe)	2024/07/09	102	80 - 120	98	80 - 120	<0.060	mg/L	8.8	20		
B431321	Total Lithium (Li)	2024/07/09	105	80 - 120	104	80 - 120	<0.020	mg/L	7.5	20		
B431321	Total Magnesium (Mg)	2024/07/09	99	80 - 120	97	80 - 120	<0.20	mg/L	1.1	20		
B431321	Total Manganese (Mn)	2024/07/09	99	80 - 120	98	80 - 120	<0.0040	mg/L	8.7	20		
B431321	Total Potassium (K)	2024/07/09	104	80 - 120	102	80 - 120	<0.30	mg/L	5.7	20		
B431321	Total Silicon (Si)	2024/07/09	96	80 - 120	93	80 - 120	<0.50	mg/L	1.1	20		
B431321	Total Sodium (Na)	2024/07/09	101	80 - 120	100	80 - 120	<0.50	mg/L	5.6	20		
B431321	Total Strontium (Sr)	2024/07/09	95	80 - 120	93	80 - 120	<0.020	mg/L	1.1	20		
B431321	Total Sulphur (S)	2024/07/09	93	80 - 120	92	80 - 120	<0.20	mg/L	1.4	20		
B431379	Alkalinity (PP as CaCO3)	2024/07/09					<0.50	mg/L	NC	20		
B431379	Alkalinity (Total as CaCO3)	2024/07/09			100	80 - 120	<0.50	mg/L	5.0	20		
B431379	Bicarbonate (HCO3)	2024/07/09					<0.50	mg/L	5.0	20		
B431379	Carbonate (CO3)	2024/07/09					<0.50	mg/L	NC	20		
B431379	Hydroxide (OH)	2024/07/09					<0.50	mg/L	NC	20		
B431381	pH	2024/07/09			101	97 - 103			1.0	N/A		
B431382	Conductivity	2024/07/09			101	90 - 110	<1.0	uS/cm	2.6	20		
B431384	Fluoride (F)	2024/07/09	95	80 - 120	93	80 - 120	<0.010	mg/L	3.2	20		



BUREAU
VERITAS

Bureau Veritas Job #: C448047

Report Date: 2024/07/14

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B435064	Total Organic Carbon (C)	2024/07/12	NC	80 - 120	102	80 - 120	<0.20	mg/L	0.60	20		

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

Bureau Veritas Job #: C448047

Report Date: 2024/07/14

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

VALIDATION SIGNATURE PAGE

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

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

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

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.

CHAIN-OF-CUSTODY RECORD

COOLER OBSERVATIONS:				BV JOB#:			
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESINT		✓	TEMP 63 64 68	PRESINT		✓	TEMP 36 36 32
INTACT			1 2 3	INTACT			1 2 3
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESINT		✓	TEMP 56 58 63	PRESINT		✓	TEMP 48 48 48
INTACT		✓	1 2 3	INTACT		✓	1 2 3
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESINT		✓	TEMP 53 54 59	PRESINT		✓	TEMP 48 48 48
INTACT		✓	1 2 3	INTACT		✓	1 2 3
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESINT		✓	TEMP 51 53 58	PRESINT		✓	TEMP 63 63 58
INTACT		✓	1 2 3	INTACT		✓	1 2 3
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESINT		✓	TEMP 80 67 69	PRESINT		✓	TEMP 46 44 41
INTACT		✓	1 2 3	INTACT		✓	1 2 3
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESINT		✓	TEMP 46 41 63	PRESINT		✓	TEMP 63 55 42
INTACT		✓	1 2 3	INTACT		✓	1 2 3
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESINT		✓	TEMP 48 43 34	PRESINT		✓	TEMP 33 26 19
INTACT		✓	1 2 3	INTACT		✓	1 2 3
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESINT		✓	TEMP 53 54 49	PRESINT		✓	TEMP 36 30 18
INTACT		✓	1 2 3	INTACT		✓	1 2 3
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESINT		✓	TEMP 42 41 17	PRESINT		✓	TEMP 22 22 22
INTACT		✓	1 2 3	INTACT		✓	1 2 3
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESINT		✓	TEMP 27 29 35	PRESINT		✓	TEMP 43 43 41
INTACT		✓	1 2 3	INTACT		✓	1 2 3
ICE PRESENT	✓			ICE PRESENT	✓		

TIME (HH:MM)

ASD

CHAIN-OF-CUSTODY RECORD

BV JOB #:				
CUSTODY SEAL	YES	NO	COOLER ID	
PRESENT				
INTACT			TEMP	
ICE PRESENT			1	2 3
CUSTODY SEAL	YES	NO	COOLER ID	
PRESENT				
INTACT			TEMP	
ICE PRESENT			1	2 3
CUSTODY SEAL	YES	NO	COOLER ID	
PRESENT				
INTACT			TEMP	
ICE PRESENT			1	2 3
CUSTODY SEAL	YES	NO	COOLER ID	
PRESENT				
INTACT			TEMP	
ICE PRESENT			1	2 3
CUSTODY SEAL	YES	NO	COOLER ID	
PRESENT				
INTACT			TEMP	
ICE PRESENT			1	2 3
CUSTODY SEAL	YES	NO	COOLER ID	
PRESENT				
INTACT			TEMP	
ICE PRESENT			1	2 3
CUSTODY SEAL	YES	NO	COOLER ID	
PRESENT				
INTACT			TEMP	
ICE PRESENT			1	2 3
CUSTODY SEAL	YES	NO	COOLER ID	
PRESENT				
INTACT			TEMP	
ICE PRESENT			1	2 3
CUSTODY SEAL	YES	NO	COOLER ID	
PRESENT				
INTACT			TEMP	
ICE PRESENT			1	2 3
CUSTODY SEAL	YES	NO	COOLER ID	
PRESENT				
INTACT			TEMP	
ICE PRESENT			1	2 3

TIME (HH:MM)

1500

SO# 02829



**BUREAU
VERITAS**

Burgundy Contact: Richard Ehlert / Jonah Kelly



BURGUNDY
DIAMOND MINES

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

[illegible]

Please send results to Andre.Brazeau@arcticcanadian.ca;
Kelly.Whaley-Martin@erm.com

Date	
Time	

Sample temperature upon receipt:
Frozen? ☐ Yes ☐ No

Send Analytical Results to: compliance.team@burgundydiamonds.com

He: yes



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101593

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/10
Report #: R3524966
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448049

Received: 2024/06/27, 15:00

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity pH 4.5 & pH 8.3 (as CaCO ₃)	3	N/A	2024/06/28	AB SOP-00005	SM 24 2310 B m
Acidity pH 4.5 & pH 8.3 (as CaCO ₃)	1	N/A	2024/07/08	AB SOP-00005	SM 24 2310 B m
Alkalinity - Low Level	4	N/A	2024/07/09	AB SOP-00005	SM 24 2320 B m
Low level chloride/sulphate by AC	4	N/A	2024/06/28	AB SOP-00020	SM24-4500-Cl/SO ₄ -E m
Conductance - Low Level	4	N/A	2024/07/09	AB SOP-00005	SM 24 2510 B m
Fluoride - Low Level	4	N/A	2024/07/09	AB SOP-00005	SM 24 4500-F C m
Hardness Total (calculated as CaCO ₃) (1)	4	N/A	2024/07/09	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (2)	4	2024/07/03	2024/07/03	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	4	2024/07/03	2024/07/05	AB SOP-00084	BCMOE BCLM Oct2013 m
Elements by ICP - Dissolved (2)	4	N/A	2024/06/29	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	2	2024/07/08	2024/07/08	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	2	2024/07/08	2024/07/09	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS - Dissolved (2)	4	N/A	2024/06/29	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total	3	2024/07/08	2024/07/08	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total	1	2024/07/08	2024/07/09	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	4	N/A	2024/07/02	AB SOP-00007	SM 24 4500 NH ₃ A G m
Nitrate + Nitrite-N (calculated) Low Lev	4	N/A	2024/07/04		Auto Calc
Nitrogen (Nitrite - Nitrate) Low Level	4	N/A	2024/06/28	AB SOP-00023	SM 24 4110 B m
pH @25°C (3)	4	N/A	2024/07/09	AB SOP-00005	SM 24 4500-H+B m
pH (Field)	4	N/A	2024/06/27	Field Test	Field Test
Orthophosphate LL by Automated Analyzer (4)	4	N/A	2024/06/28	AB SOP-00025	SM 24 4500-P A, F m
Sulphate (SO ₄) by IC	4	N/A	2024/07/08	AB SOP-00026	SM 24 4110 B m
Temperature (Field)	4	N/A	2024/06/27	Field Test	Field Test
Total Kjeldahl Nitrogen (Total)	4	N/A	2024/07/04	BBY WI-00033	Auto Calc
Nitrogen (Total)	4	2024/06/28	2024/07/02	AB SOP-00093	SM 24 4500-N C m
Carbon (Total Organic) (5)	4	N/A	2024/07/08	AB SOP-00087	MMCW 119 1996 m
Total Phosphorus Low Level Dissolved (6)	4	2024/06/29	2024/07/02	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	4	2024/06/29	2024/07/02	AB SOP-00024	SM 24 4500-P A,B,F m



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101593

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/10
Report #: R3524966
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448049

Received: 2024/06/27, 15:00

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Total Suspended Solids (NFR)	4	2024/06/28	2024/06/28	AB SOP-00061	SM 24 2540 D m
Turbidity	4	N/A	2024/06/28	CAL SOP-00081	SM 24 2130 B m
Ion Balance (7)	4	N/A	2024/07/09		
Total Dissolved Solids (Calculated) (7)	4	N/A	2024/07/09		

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, EPA, APHA or the Quebec Ministry of Environment.

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) "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).
- (2) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (3) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
- (4) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (5) TOC present in the sample should be considered as non-purgeable TOC.
- (6) Dissolved Phosphorus > Total Phosphorus Imbalance: When applicable, Dissolved Phosphorus and Total Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101593

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/10
Report #: R3524966
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448049

Received: 2024/06/27, 15:00

(7) Calculation was conducted as per client request using CAL PDF-00333.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Geraldlyn Gouthro, Key Account Specialist
Email: geraldlyn.gouthro@bureauveritas.com
Phone# (403) 291-3077

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C448049

Report Date: 2024/07/10

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQF011		CQF012		CQF013		
Sampling Date		2024/06/22 13:11		2024/06/22 11:00		2024/06/22 10:11		
COC Number		101593		101593		101593		
	UNITS	PL WRSA SEEPAGE SUMP	RDL	REF-040	QC Batch	SEEP-059	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO ₃)	mg/L	46.1	0.50	28.7	B418673	29.7	0.50	B418673
Calculated Ion Balance (% Difference)	%	8.6		0.19	B419701	6.9		B419701
Nitrate plus Nitrite (N)	mg/L	1.6	0.0022	0.010	B419698	0.0047	0.0022	B419698
Calculated Total Dissolved Solids	mg/L	71	0.95	54	B419703	43	0.95	B419703
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.90	0.10	0.406	B423540	0.756	0.020	B423540

Field Parameters

Field pH	pH	5.39	N/A	5.4	ONSITE	6.18	N/A	ONSITE
Field Temperature (Fd)	deg. C	14.8	N/A	13.9	ONSITE	13.3	N/A	ONSITE

Misc. Inorganics

Fluoride (F)	mg/L	0.021	0.010	0.076	B430769	0.056	0.010	B430769
pH	pH	5.94	N/A	6.32	B430766	6.63	N/A	B430766
Acidity (pH 4.5)	mg/L	<1.0	1.0	<1.0	B421060	<1.0	1.0	B427665
Alkalinity (Total as CaCO ₃)	mg/L	1.23	0.50	3.42	B430670	6.29	0.50	B430670
Total Organic Carbon (C)	mg/L	11	0.20	8.2	B430440	8.0	0.20	B430440
Acidity (pH 8.3)	mg/L	6.8	1.0	6.2	B421060	2.3	1.0	B427665
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	<0.50	B430670	<0.50	0.50	B430670
Bicarbonate (HCO ₃)	mg/L	1.50	0.50	4.17	B430670	7.67	0.50	B430670
Carbonate (CO ₃)	mg/L	<0.50	0.50	<0.50	B430670	<0.50	0.50	B430670
Hydroxide (OH)	mg/L	<0.50	0.50	<0.50	B430670	<0.50	0.50	B430670
Total Suspended Solids	mg/L	14	1.0	10	B419910	<1.0	1.0	B419910

Anions

Orthophosphate (P)	mg/L	0.0011	0.0010	<0.0010	B420401	<0.0010	0.0010	B421646
Chloride (Cl)	mg/L	<0.50	0.50	1.5	B420885	3.3	0.50	B420885
Dissolved-Low Level Sulphate (SO ₄)	mg/L	44	0.30	35	B430043	22	0.30	B430043

Nutrients

Dissolved Phosphorus (P)	mg/L	<0.0020 (1)	0.0020	<0.0020	B421983	<0.0020	0.0020	B421983
Total Phosphorus (P)	mg/L	0.049	0.0020	0.0035	B421976	0.0055	0.0020	B421976
Total Ammonia (N)	mg/L	0.41	0.0050	0.0057	B423085	0.0076	0.0050	B423085
Nitrite (N)	mg/L	0.026	0.0010	<0.0010	B421448	<0.0010	0.0010	B421448

RDL = Reportable Detection Limit

N/A = Not Applicable

(1) Phosphorus < Orthophosphate: Both values fall within the method uncertainty for duplicates and are likely equivalent.



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQF011		CQF012		CQF013		
Sampling Date		2024/06/22 13:11		2024/06/22 11:00		2024/06/22 10:11		
COC Number		101593		101593		101593		
	UNITS	PL WRSA SEEPAGE SUMP	RDL	REF-040	QC Batch	SEEP-059	RDL	QC Batch
Nitrate (N)	mg/L	1.5	0.0020	0.010	B421448	0.0047	0.0020	B421448
Total Nitrogen (N)	mg/L	2.5	0.10	0.42	B420701	0.76	0.020	B420701
Physical Properties								
Conductivity	uS/cm	124	1.0	100	B430767	83.6	1.0	B430767
Physical Properties								
Turbidity - NTU	NTU	71	0.10	2.4	B420515	1.2	0.10	B420515
RDL = Reportable Detection Limit								



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQF014		
Sampling Date		2024/06/22 10:24		
COC Number		101593		
	UNITS	SEEP-123	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO ₃)	mg/L	27.3	0.50	B418673
Calculated Ion Balance (% Difference)	%	3.2		B419701
Nitrate plus Nitrite (N)	mg/L	0.0055	0.0022	B419698
Calculated Total Dissolved Solids	mg/L	42	0.95	B419703
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.491	0.020	B423540
Field Parameters				
Field pH	pH	6.18	N/A	ONSITE
Field Temperature (Fd)	deg. C	13.3	N/A	ONSITE
Misc. Inorganics				
Fluoride (F)	mg/L	0.056	0.010	B430769
pH	pH	6.71	N/A	B430766
Acidity (pH 4.5)	mg/L	<1.0	1.0	B421060
Alkalinity (Total as CaCO ₃)	mg/L	6.32	0.50	B430670
Total Organic Carbon (C)	mg/L	8.0	0.20	B430440
Acidity (pH 8.3)	mg/L	3.9	1.0	B421060
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	B430670
Bicarbonate (HCO ₃)	mg/L	7.71	0.50	B430670
Carbonate (CO ₃)	mg/L	<0.50	0.50	B430670
Hydroxide (OH)	mg/L	<0.50	0.50	B430670
Total Suspended Solids	mg/L	1.4	1.0	B419910
Anions				
Orthophosphate (P)	mg/L	<0.0010	0.0010	B420401
Chloride (Cl)	mg/L	3.4	0.50	B420885
Dissolved-Low Level Sulphate (SO ₄)	mg/L	22	0.30	B430043
Nutrients				
Dissolved Phosphorus (P)	mg/L	0.0023	0.0020	B421983
Total Phosphorus (P)	mg/L	0.0045	0.0020	B421976
Total Ammonia (N)	mg/L	0.013	0.0050	B423085
Nitrite (N)	mg/L	<0.0010	0.0010	B421448
Nitrate (N)	mg/L	0.0055	0.0020	B421448
RDL = Reportable Detection Limit				
N/A = Not Applicable				



BUREAU
VERITAS

Bureau Veritas Job #: C448049
Report Date: 2024/07/10

Arctic Canadian Diamond Company Ltd
Site Location: MDMER/SNP/SEEPAGE
Your P.O. #: 6404002992

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQF014		
Sampling Date		2024/06/22 10:24		
COC Number		101593		
	UNITS	SEEP-123	RDL	QC Batch
Total Nitrogen (N)	mg/L	0.50	0.020	B420701
Physical Properties				
Conductivity	uS/cm	84.4	1.0	B430767
Physical Properties				
Turbidity - NTU	NTU	2.0	0.10	B420515
RDL = Reportable Detection Limit				



BUREAU
VERITAS

Bureau Veritas Job #: C448049
Report Date: 2024/07/10

Arctic Canadian Diamond Company Ltd
Site Location: MDMER/SNP/SEEPAGE
Your P.O. #: 6404002992

MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID		CQF011	CQF012	CQF013	CQF014		
Sampling Date		2024/06/22 13:11	2024/06/22 11:00	2024/06/22 10:11	2024/06/22 10:24		
COC Number		101593	101593	101593	101593		
	UNITS	PL WRSA SEEPAGE SUMP	REF-040	SEEP-059	SEEP-123	RDL	QC Batch
Elements							
Dissolved Mercury (Hg)	mg/L	<0.0000019	<0.0000019	0.0000026	0.0000023	0.0000019	B424721
Total Mercury (Hg)	mg/L	0.0000046	0.0000033	0.0000037	0.0000019	0.0000019	B424655
RDL = Reportable Detection Limit							



BUREAU
VERITAS

Bureau Veritas Job #: C448049
Report Date: 2024/07/10

Arctic Canadian Diamond Company Ltd
Site Location: MDMER/SNP/SEEPAGE
Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQF011	CQF012	CQF013	CQF014		
Sampling Date		2024/06/22 13:11	2024/06/22 11:00	2024/06/22 10:11	2024/06/22 10:24		
COC Number		101593	101593	101593	101593		
	UNITS	PL WRSA SEEPAGE SUMP	REF-040	SEEP-059	SEEP-123	RDL	QC Batch

Elements							
Dissolved Aluminum (Al)	mg/L	0.22	0.15	0.088	0.091	0.0030	B422002
Total Aluminum (Al)	mg/L	4.2	0.21	0.15	0.12	0.0030	B429770
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B422002
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B429770
Dissolved Arsenic (As)	mg/L	0.00090	0.00032	0.00050	0.00050	0.00020	B422002
Total Arsenic (As)	mg/L	0.0066	0.00046	0.00070	0.00065	0.00020	B429770
Dissolved Barium (Ba)	mg/L	0.038	0.020	0.018	0.018	0.010	B421965
Total Barium (Ba)	mg/L	0.059	0.017	0.019	0.018	0.010	B429775
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B422002
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B429770
Dissolved Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B421965
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B429775
Dissolved Cadmium (Cd)	mg/L	0.000096	<0.000020	<0.000020	<0.000020	0.000020	B422002
Total Cadmium (Cd)	mg/L	0.00016	0.000022	<0.000020	<0.000020	0.000020	B429770
Dissolved Calcium (Ca)	mg/L	6.1	4.1	3.8	3.8	0.30	B421965
Total Calcium (Ca)	mg/L	6.6	4.2	4.6	4.0	0.30	B429775
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B422002
Total Chromium (Cr)	mg/L	0.011	<0.0010	<0.0010	<0.0010	0.0010	B429770
Dissolved Cobalt (Co)	mg/L	0.010	0.0034	0.0016	0.0017	0.00030	B422002
Total Cobalt (Co)	mg/L	0.015	0.0035	0.0022	0.0019	0.00030	B429770
Dissolved Copper (Cu)	mg/L	0.0068	0.0046	0.0024	0.0025	0.0010	B422002
Total Copper (Cu)	mg/L	0.017	0.0057	0.0033	0.0028	0.0010	B429770
Dissolved Iron (Fe)	mg/L	0.19	0.088	0.23	0.24	0.060	B421965
Total Iron (Fe)	mg/L	3.1	0.067	0.40	0.24	0.060	B429775
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B422002
Total Lead (Pb)	mg/L	0.0014	<0.00020	<0.00020	<0.00020	0.00020	B429770
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B421965
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B429775
Dissolved Magnesium (Mg)	mg/L	6.0	4.2	4.0	4.0	0.20	B421965
Total Magnesium (Mg)	mg/L	7.2	4.4	4.4	4.2	0.20	B429775
Dissolved Manganese (Mn)	mg/L	0.24	0.011	0.0087	0.0083	0.0040	B421965

RDL = Reportable Detection Limit



**BUREAU
VERITAS**

Bureau Veritas Job #: C448049

Report Date: 2024/07/10

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQF011	CQF012	CQF013	CQF014		
Sampling Date		2024/06/22 13:11	2024/06/22 11:00	2024/06/22 10:11	2024/06/22 10:24		
COC Number		101593	101593	101593	101593		
	UNITS	PL WRSA SEEPAGE SUMP	REF-040	SEEP-059	SEEP-123	RDL	QC Batch
Total Manganese (Mn)	mg/L	0.26	0.0090	0.012	<0.0040	0.0040	B429775
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	0.00024	0.00020	B422002
Total Molybdenum (Mo)	mg/L	0.00042	0.00021	0.00035	0.00029	0.00020	B429770
Dissolved Nickel (Ni)	mg/L	0.018	0.028	0.017	0.017	0.00050	B422002
Total Nickel (Ni)	mg/L	0.029	0.029	0.023	0.019	0.00050	B429770
Dissolved Potassium (K)	mg/L	2.1	2.3	2.0	2.0	0.30	B421965
Total Potassium (K)	mg/L	2.8	2.3	1.9	2.0	0.30	B429775
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B422002
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B429770
Dissolved Silicon (Si)	mg/L	3.3	<0.50	<0.50	<0.50	0.50	B421965
Total Silicon (Si)	mg/L	6.5	<0.50	0.66	<0.50	0.50	B429775
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B422002
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B429770
Dissolved Sodium (Na)	mg/L	2.3	4.6	2.8	2.8	0.50	B421965
Total Sodium (Na)	mg/L	2.4	4.5	2.8	2.8	0.50	B429775
Dissolved Strontium (Sr)	mg/L	0.048	0.033	0.032	0.032	0.020	B421965
Total Strontium (Sr)	mg/L	0.049	0.032	0.031	0.031	0.020	B429775
Dissolved Sulphur (S)	mg/L	13	11	6.9	6.8	0.20	B421965
Total Sulphur (S)	mg/L	13	10	6.5	6.9	0.20	B429775
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B422002
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B429770
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B422002
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B429770
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B422002
Total Titanium (Ti)	mg/L	0.18	0.0025	<0.0010	<0.0010	0.0010	B429770
Dissolved Uranium (U)	mg/L	0.00023	<0.00010	<0.00010	<0.00010	0.00010	B422002
Total Uranium (U)	mg/L	0.00061	<0.00010	0.00011	<0.00010	0.00010	B429770
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B422002
Total Vanadium (V)	mg/L	0.0085	<0.0010	<0.0010	<0.0010	0.0010	B429770
Dissolved Zinc (Zn)	mg/L	0.014	0.015	0.0059	0.0070	0.0030	B422002
Total Zinc (Zn)	mg/L	0.030	0.017	0.013	0.0088	0.0030	B429770
RDL = Reportable Detection Limit							



GENERAL COMMENTS

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

Package 1	6.5°C
Package 2	5.9°C
Package 3	5.5°C
Package 4	5.4°C
Package 5	7.2°C
Package 6	5.0°C
Package 7	4.2°C
Package 8	5.2°C
Package 9	3.3°C
Package 10	3.0°C
Package 11	3.5°C
Package 12	4.8°C
Package 13	4.8°C
Package 14	5.8°C
Package 15	4.4°C
Package 16	5.3°C
Package 17	2.6°C
Package 18	2.8°C
Package 19	2.2°C
Package 20	4.2°C
Package 21	3.8°C
Package 22	3.8°C
Package 23	1.6°C
Package 24	0.3°C
Package 25	2.2°C

Sample CQF011 [PL WRSA SEEPAGE SUMP] : Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level. Sample was analyzed past method specified hold time for Alkalinity - Low Level.

Sample CQF012 [REF-040] : Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level. Sample was analyzed past method specified hold time for Alkalinity - Low Level.

Sample CQF013 [SEEP-059] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level. Sample was analyzed past method specified hold time for Acidity pH 4.5 & pH 8.3 (as CaCO₃). Sample was analyzed past method specified hold time for Alkalinity - Low Level.

Sample CQF014 [SEEP-123] : Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level. Sample was analyzed past method specified hold time for Alkalinity - Low Level.

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C448049
Report Date: 2024/07/10

Arctic Canadian Diamond Company Ltd
Site Location: MDMER/SNP/SEEPAGE
Your P.O. #: 6404002992

BUREAU
VERITAS

Bureau Veritas Job #: C448049

Report Date: 2024/07/10

QUALITY ASSURANCE REPORT

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B419910	Total Suspended Solids	2024/06/28	98	80 - 120	98	80 - 120	<0.99	mg/L	11	20		
B420401	Orthophosphate (P)	2024/06/28	94	80 - 120	109	80 - 120	<0.0010	mg/L	6.1	20		
B420515	Turbidity - NTU	2024/06/28			99	80 - 120	<0.10	NTU	1.9	20		
B420701	Total Nitrogen (N)	2024/07/02	106	80 - 120	112	80 - 120	<0.020	mg/L	0.20	20	108	80 - 120
B420885	Chloride (Cl)	2024/06/28	NC	80 - 120	105	80 - 120	<0.50	mg/L	0.40	20		
B421060	Acidity (pH 4.5)	2024/06/28					<1.0	mg/L	NC	20		
B421060	Acidity (pH 8.3)	2024/06/28			100	80 - 120	<1.0	mg/L	0.92	20		
B421448	Nitrate (N)	2024/06/28	NC	80 - 120	103	80 - 120	<0.0020	mg/L	0.0033	20		
B421448	Nitrite (N)	2024/06/28	100	80 - 120	98	80 - 120	<0.0010	mg/L	0.10	20		
B421646	Orthophosphate (P)	2024/06/28	96	80 - 120	109	80 - 120	0.0011, RDL=0.0010 (1)	mg/L	16	20		
B421965	Dissolved Barium (Ba)	2024/06/29	109	80 - 120	108	80 - 120	<0.010	mg/L	12	20		
B421965	Dissolved Boron (B)	2024/06/29	109	80 - 120	107	80 - 120	<0.020	mg/L	NC	20		
B421965	Dissolved Calcium (Ca)	2024/06/29	105	80 - 120	102	80 - 120	<0.30	mg/L	1.1	20		
B421965	Dissolved Iron (Fe)	2024/06/29	100	80 - 120	120	80 - 120	<0.060	mg/L	4.4	20		
B421965	Dissolved Lithium (Li)	2024/06/29	101	80 - 120	100	80 - 120	<0.020	mg/L	NC	20		
B421965	Dissolved Magnesium (Mg)	2024/06/29	108	80 - 120	106	80 - 120	<0.20	mg/L	1.3	20		
B421965	Dissolved Manganese (Mn)	2024/06/29	98	80 - 120	101	80 - 120	<0.0040	mg/L	4.8	20		
B421965	Dissolved Potassium (K)	2024/06/29	106	80 - 120	105	80 - 120	<0.30	mg/L	3.0	20		
B421965	Dissolved Silicon (Si)	2024/06/29	101	80 - 120	102	80 - 120	<0.50	mg/L	NC	20		
B421965	Dissolved Sodium (Na)	2024/06/29	107	80 - 120	105	80 - 120	<0.50	mg/L	0.095	20		
B421965	Dissolved Strontium (Sr)	2024/06/29	111	80 - 120	108	80 - 120	<0.020	mg/L	0.30	20		
B421965	Dissolved Sulphur (S)	2024/06/29	113	80 - 120	105	80 - 120	<0.20	mg/L	0.058	20		
B421976	Total Phosphorus (P)	2024/07/02	101	80 - 120	95	80 - 120	<0.0010	mg/L	0.50	20	91	80 - 120
B421983	Dissolved Phosphorus (P)	2024/07/02	98	80 - 120	96	80 - 120	<0.0010	mg/L	9.2	20	92	80 - 120
B422002	Dissolved Aluminum (Al)	2024/06/29	100	80 - 120	110	80 - 120	<0.0030	mg/L				
B422002	Dissolved Antimony (Sb)	2024/06/29	101	80 - 120	101	80 - 120	<0.00060	mg/L				
B422002	Dissolved Arsenic (As)	2024/06/29	104	80 - 120	102	80 - 120	<0.00020	mg/L	8.6	20		
B422002	Dissolved Beryllium (Be)	2024/06/29	100	80 - 120	101	80 - 120	<0.0010	mg/L				
B422002	Dissolved Cadmium (Cd)	2024/06/29	100	80 - 120	98	80 - 120	<0.000020	mg/L				
B422002	Dissolved Chromium (Cr)	2024/06/29	100	80 - 120	101	80 - 120	<0.0010	mg/L	1.4	20		
B422002	Dissolved Cobalt (Co)	2024/06/29	97	80 - 120	101	80 - 120	<0.00030	mg/L				

BUREAU
VERITAS

Bureau Veritas Job #: C448049

Report Date: 2024/07/10

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B422002	Dissolved Copper (Cu)	2024/06/29	96	80 - 120	102	80 - 120	<0.0010	mg/L	3.4	20		
B422002	Dissolved Lead (Pb)	2024/06/29	95	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20		
B422002	Dissolved Molybdenum (Mo)	2024/06/29	106	80 - 120	102	80 - 120	<0.00020	mg/L				
B422002	Dissolved Nickel (Ni)	2024/06/29	99	80 - 120	101	80 - 120	<0.00050	mg/L				
B422002	Dissolved Selenium (Se)	2024/06/29	106	80 - 120	100	80 - 120	<0.00020	mg/L				
B422002	Dissolved Silver (Ag)	2024/06/29	98	80 - 120	100	80 - 120	<0.00010	mg/L				
B422002	Dissolved Thallium (Tl)	2024/06/29	97	80 - 120	99	80 - 120	<0.00020	mg/L				
B422002	Dissolved Tin (Sn)	2024/06/29	103	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
B422002	Dissolved Titanium (Ti)	2024/06/29	100	80 - 120	102	80 - 120	<0.0010	mg/L				
B422002	Dissolved Uranium (U)	2024/06/29	101	80 - 120	102	80 - 120	<0.00010	mg/L				
B422002	Dissolved Vanadium (V)	2024/06/29	103	80 - 120	103	80 - 120	<0.0010	mg/L				
B422002	Dissolved Zinc (Zn)	2024/06/29	NC	80 - 120	108	80 - 120	<0.0030	mg/L	1.5	20		
B423085	Total Ammonia (N)	2024/07/02	NC	80 - 120	103	80 - 120	<0.0050	mg/L	0.99	20		
B424655	Total Mercury (Hg)	2024/07/05	92	80 - 120	103	80 - 120	<0.0000019	mg/L	NC	20		
B424721	Dissolved Mercury (Hg)	2024/07/03	100	80 - 120	104	80 - 120	<0.0000019	mg/L	7.7	20		
B427665	Acidity (pH 4.5)	2024/07/08					<1.0	mg/L	NC	20		
B427665	Acidity (pH 8.3)	2024/07/08			99	80 - 120	1.4, RDL=1.0 (2)	mg/L	NC	20		
B429770	Total Aluminum (Al)	2024/07/09	111	80 - 120	118	80 - 120	<0.0030	mg/L	56 (3)	20		
B429770	Total Antimony (Sb)	2024/07/09	110	80 - 120	117	80 - 120	<0.00060	mg/L	NC	20		
B429770	Total Arsenic (As)	2024/07/09	110	80 - 120	118	80 - 120	<0.00020	mg/L	16	20		
B429770	Total Beryllium (Be)	2024/07/09	107	80 - 120	116	80 - 120	<0.0010	mg/L	NC	20		
B429770	Total Cadmium (Cd)	2024/07/09	111	80 - 120	120	80 - 120	<0.000020	mg/L	17	20		
B429770	Total Chromium (Cr)	2024/07/09	102	80 - 120	111	80 - 120	<0.0010	mg/L	9.9	20		
B429770	Total Cobalt (Co)	2024/07/09	103	80 - 120	113	80 - 120	<0.00030	mg/L	9.9	20		
B429770	Total Copper (Cu)	2024/07/09	103	80 - 120	112	80 - 120	<0.0010	mg/L	11	20		
B429770	Total Lead (Pb)	2024/07/09	104	80 - 120	112	80 - 120	<0.00020	mg/L	9.7	20		
B429770	Total Molybdenum (Mo)	2024/07/09	105	80 - 120	115	80 - 120	<0.00020	mg/L	1.5	20		
B429770	Total Nickel (Ni)	2024/07/09	103	80 - 120	111	80 - 120	<0.00050	mg/L	6.7	20		
B429770	Total Selenium (Se)	2024/07/09	116	80 - 120	119	80 - 120	<0.00020	mg/L	3.7	20		
B429770	Total Silver (Ag)	2024/07/09	105	80 - 120	114	80 - 120	<0.00010	mg/L	NC	20		
B429770	Total Thallium (Tl)	2024/07/09	106	80 - 120	114	80 - 120	<0.00020	mg/L	NC	20		
B429770	Total Tin (Sn)	2024/07/09	110	80 - 120	120	80 - 120	<0.0010	mg/L	NC	20		

BUREAU
VERITAS

Bureau Veritas Job #: C448049

Report Date: 2024/07/10

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B429770	Total Titanium (Ti)	2024/07/09	103	80 - 120	110	80 - 120	<0.0010	mg/L	3.4	20		
B429770	Total Uranium (U)	2024/07/09	110	80 - 120	119	80 - 120	<0.00010	mg/L	9.0	20		
B429770	Total Vanadium (V)	2024/07/09	105	80 - 120	113	80 - 120	<0.0010	mg/L	1.8	20		
B429770	Total Zinc (Zn)	2024/07/09	105	80 - 120	116	80 - 120	<0.0030	mg/L	15	20		
B429775	Total Barium (Ba)	2024/07/08	101	80 - 120	99	80 - 120	<0.010	mg/L	3.1	20		
B429775	Total Boron (B)	2024/07/08	109	80 - 120	107	80 - 120	<0.020	mg/L	4.9	20		
B429775	Total Calcium (Ca)	2024/07/08	96	80 - 120	92	80 - 120	<0.30	mg/L	3.9	20		
B429775	Total Iron (Fe)	2024/07/08	99	80 - 120	96	80 - 120	<0.060	mg/L	2.2	20		
B429775	Total Lithium (Li)	2024/07/08	96	80 - 120	92	80 - 120	<0.020	mg/L	NC	20		
B429775	Total Magnesium (Mg)	2024/07/08	97	80 - 120	93	80 - 120	<0.20	mg/L	4.9	20		
B429775	Total Manganese (Mn)	2024/07/08	102	80 - 120	102	80 - 120	<0.0040	mg/L	2.5	20		
B429775	Total Potassium (K)	2024/07/08	96	80 - 120	93	80 - 120	<0.30	mg/L	4.0	20		
B429775	Total Silicon (Si)	2024/07/08	91	80 - 120	91	80 - 120	<0.50	mg/L	5.7	20		
B429775	Total Sodium (Na)	2024/07/08	94	80 - 120	91	80 - 120	<0.50	mg/L	3.6	20		
B429775	Total Strontium (Sr)	2024/07/08	101	80 - 120	98	80 - 120	<0.020	mg/L	3.2	20		
B429775	Total Sulphur (S)	2024/07/08	92	80 - 120	92	80 - 120	<0.20	mg/L	3.6	20		
B430043	Dissolved-Low Level Sulphate (SO4)	2024/07/08	NC	80 - 120	99	80 - 120	<0.050	mg/L	0.0012	20		
B430440	Total Organic Carbon (C)	2024/07/08	110	80 - 120	100	80 - 120	<0.20	mg/L	4.8	20		
B430670	Alkalinity (PP as CaCO3)	2024/07/09					<0.50	mg/L	NC	20		
B430670	Alkalinity (Total as CaCO3)	2024/07/09			98	80 - 120	<0.50	mg/L	2.1	20		
B430670	Bicarbonate (HCO3)	2024/07/09					<0.50	mg/L	2.1	20		
B430670	Carbonate (CO3)	2024/07/09					<0.50	mg/L	NC	20		
B430670	Hydroxide (OH)	2024/07/09					<0.50	mg/L	NC	20		
B430766	pH	2024/07/09			100	97 - 103			1.2	N/A		
B430767	Conductivity	2024/07/09			100	90 - 110	<1.0	uS/cm	0	20		



BUREAU
VERITAS

Bureau Veritas Job #: C448049

Report Date: 2024/07/10

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B430769	Fluoride (F)	2024/07/09	93	80 - 120	98	80 - 120	<0.010	mg/L	NC	20		

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

(1) Method blank exceeds acceptance limits, $2 \times \text{RDL}$ acceptable for low level analysis

(2) Method blank exceeds acceptance limits, $2 \times \text{RDL}$ acceptable for low acidity analysis

(3) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C448049
Report Date: 2024/07/10

Arctic Canadian Diamond Company Ltd
Site Location: MDMER/SNP/SEEPAGE
Your P.O. #: 6404002992

VALIDATION SIGNATURE PAGE

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

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

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.

CHAIN-OF-CUSTODY RECORD

[illegible]

COOLER OBSERVATIONS:				BV JOB#:			
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	TEMP 63 6.4 68	PRESENT		✓	TEMP 3.6 3.6 3.2
INTACT		✓		INTACT		✓	
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	TEMP 5.6 5.8 6.3	PRESENT		✓	TEMP 4.8 4.8 4.8
INTACT		✓		INTACT		✓	
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	TEMP 5.3 5.4 5.9	PRESENT		✓	TEMP 4.8 4.8 4.8
INTACT		✓		INTACT		✓	
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	TEMP 5.1 5.3 5.8	PRESENT		✓	TEMP 6.3 6.3 5.8
INTACT		✓		INTACT		✓	
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	TEMP 8.0 6.7 6.9	PRESENT		✓	TEMP 4.6 4.4 4.1
INTACT		✓		INTACT		✓	
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	TEMP 4.6 4.1 6.3	PRESENT		✓	TEMP 6.3 5.5 4.2
INTACT		✓		INTACT		✓	
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	TEMP 4.8 4.3 3.4	PRESENT		✓	TEMP 3.3 2.6 1.9
INTACT		✓		INTACT		✓	
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	TEMP 5.3 5.4 4.9	PRESENT		✓	TEMP 3.6 3.0 1.8
INTACT		✓		INTACT		✓	
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	TEMP 4.2 4.1 1.7	PRESENT		✓	TEMP 2.2 2.2 2.2
INTACT		✓		INTACT		✓	
ICE PRESENT	✓			ICE PRESENT	✓		
CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	TEMP 2.7 2.9 3.5	PRESENT		✓	TEMP 4.3 4.3 4.1
INTACT		✓		INTACT		✓	
ICE PRESENT	✓			ICE PRESENT	✓		

RECEIVED BY (SIGN & PRINT)

RECEIVED BY (SIGN & PRINT)
 Lt. Marynne Luntie

DATE (YYYY/MM/DD)

204/06/27

TIME (HH:MM)

1500

CHAIN-OF-CUSTODY RECORD

BV JOB#:									
CUSTODY SEAL	YES	NO	COOLER ID						
PRESENT									
INTACT			TEMP						
ICE PRESENT				1	2	3			
CUSTODY SEAL	YES	NO	COOLER ID						
PRESENT									
INTACT			TEMP						
ICE PRESENT				1	2	3			
CUSTODY SEAL	YES	NO	COOLER ID						
PRESENT									
INTACT			TEMP						
ICE PRESENT				1	2	3			
CUSTODY SEAL	YES	NO	COOLER ID						
PRESENT									
INTACT			TEMP						
ICE PRESENT				1	2	3			
CUSTODY SEAL	YES	NO	COOLER ID						
PRESENT									
INTACT			TEMP						
ICE PRESENT				1	2	3			
CUSTODY SEAL	YES	NO	COOLER ID						
PRESENT									
INTACT			TEMP						
ICE PRESENT				1	2	3			
CUSTODY SEAL	YES	NO	COOLER ID						
PRESENT									
INTACT			TEMP						
ICE PRESENT				1	2	3			
CUSTODY SEAL	YES	NO	COOLER ID						
PRESENT									
INTACT			TEMP						
ICE PRESENT				1	2	3			
CUSTODY SEAL	YES	NO	COOLER ID						
PRESENT									
INTACT			TEMP						
ICE PRESENT				1	2	3			
CUSTODY SEAL	YES	NO	COOLER ID						
PRESENT									
INTACT			TEMP						
ICE PRESENT				1	2	3			

TIME (HH:MM)

9024/06/27	1500
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COC# 101593
SO# 62829



900 - 606 4 Street SW, Calgary, Alberta, Canada T2P 1T1
Tel: 867-880-4400 ext 2157
Burgundy Contact: Richard Ehlert / Jonah Kelly

[illegible]

Please send results to Andre.Brazeau@arcticcanadian.ca;
Kelly.Whaley-Martin@erm.com

Date	
Time	

Sample temperature upon receipt:
Frozen? ☐ Yes ☐ No

Send Analytical Results to: compliance.team@burgundydiamonds.com

SG: yes



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101599

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/11
Report #: R3525681
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448064

Received: 2024/06/27, 15:00

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity pH 4.5 & pH 8.3 (as CaCO ₃)	3	N/A	2024/07/08	AB SOP-00005	SM 24 2310 B m
Alkalinity - Low Level	3	N/A	2024/07/09	AB SOP-00005	SM 24 2320 B m
Low level chloride/sulphate by AC	3	N/A	2024/07/02	AB SOP-00020	SM24-4500-Cl/SO ₄ -E m
Conductance - Low Level	3	N/A	2024/07/09	AB SOP-00005	SM 24 2510 B m
Fluoride - Low Level	3	N/A	2024/07/09	AB SOP-00005	SM 24 4500-F C m
Hardness Total (calculated as CaCO ₃) (1)	3	N/A	2024/07/09	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (2)	2	2024/07/03	2024/07/04	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	2	2024/07/03	2024/07/05	AB SOP-00084	BCMOE BCLM Oct2013 m
Elements by ICP - Dissolved (2)	2	N/A	2024/07/03	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (2)	1	N/A	2024/07/04	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	1	2024/07/08	2024/07/08	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	2	2024/07/08	2024/07/09	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS - Dissolved (2)	1	N/A	2024/07/03	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Dissolved (2)	1	N/A	2024/07/04	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS-Dissolved-Lab Filtered (3)	1	N/A	2024/07/02	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total	1	2024/07/08	2024/07/08	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total	2	2024/07/08	2024/07/09	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	3	N/A	2024/07/02	AB SOP-00007	SM 24 4500 NH ₃ A G m
Nitrate + Nitrite-N (calculated) Low Lev	3	N/A	2024/07/04		Auto Calc
Nitrogen (Nitrite - Nitrate) Low Level	3	N/A	2024/07/03	AB SOP-00023	SM 24 4110 B m
pH @25°C (4)	3	N/A	2024/07/09	AB SOP-00005	SM 24 4500-H+B m
pH (Field)	1	N/A	2024/06/29	Field Test	Field Test
Orthophosphate LL by Automated Analyzer (5)	3	N/A	2024/07/02	AB SOP-00025	SM 24 4500-P A, F m
Sulphate (SO ₄) by IC	3	N/A	2024/07/08	AB SOP-00026	SM 24 4110 B m
Temperature (Field)	1	N/A	2024/06/29	Field Test	Field Test
Total Kjeldahl Nitrogen (Total)	3	N/A	2024/07/05	BBY WI-00033	Auto Calc
Nitrogen (Total)	3	2024/07/04	2024/07/04	AB SOP-00093	SM 24 4500-N C m
Carbon (Total Organic) (6)	3	N/A	2024/07/08	AB SOP-00087	MMCW 119 1996 m



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101599

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/11
Report #: R3525681
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448064

Received: 2024/06/27, 15:00

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Total Phosphorus Low Level Dissolved (7)	2	2024/07/03	2024/07/04	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus-Dis-Low-Lab Filtered (7)	1	2024/07/03	2024/07/04	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	3	2024/07/03	2024/07/04	AB SOP-00024	SM 24 4500-P A,B,F m
Total Suspended Solids (NFR)	3	2024/06/30	2024/06/30	AB SOP-00061	SM 24 2540 D m
Turbidity	3	N/A	2024/06/30	CAL SOP-00081	SM 24 2130 B m
Ion Balance (8)	3	N/A	2024/07/09		
Total Dissolved Solids (Calculated) (8)	3	N/A	2024/07/09		

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, EPA, APHA or the Quebec Ministry of Environment.

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) "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).

(2) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(3) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are



Your P.O. #: 6404002992
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101599

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/11
Report #: R3525681
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448064

Received: 2024/06/27, 15:00

reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

(5) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.

(6) TOC present in the sample should be considered as non-purgeable TOC.

(7) Dissolved Phosphorus > Total Phosphorus Imbalance: When applicable, Dissolved Phosphorus and Total Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.

(8) Calculation was conducted as per client request using CAL PDF-00333.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Geraldlyn Gouthro, Key Account Specialist
Email: geraldlyn.gouthro@bureauveritas.com
Phone# (403) 291-3077

=====

This report has been generated and distributed using a secure automated process.

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C448064

Report Date: 2024/07/11

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQF069			CQF070			CQF071		
Sampling Date		2024/06/23 10:33			2024/06/23 10:32			2024/06/23 10:55		
COC Number		101599			101599			101599		
	UNITS	SEEP-080	RDL	QC Batch	SEEP-2N1	RDL	QC Batch	SEEP-2N2	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO ₃)	mg/L	128	0.50	B421504	<0.50	0.50	B422052	<0.50	0.50	B421504
Calculated Ion Balance (% Difference)	%	3.0		B420306	NC		B422277	NC		B420306
Nitrate plus Nitrite (N)	mg/L	0.47	0.0022	B420301	<0.0022	0.0022	B422276	<0.0022	0.0022	B420301
Calculated Total Dissolved Solids	mg/L	190	1.7	B420307	<0.95	0.95	B422278	1.0	0.95	B420307
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.728	0.020	B423540	<0.020	0.020	B423540	<0.020	0.020	B423540
Field Parameters										
Field pH	pH	6.31	N/A	ONSITE						
Field Temperature (Fd)	deg. C	9.4	N/A	ONSITE						
Misc. Inorganics										
Fluoride (F)	mg/L	0.095	0.010	B430769	<0.010	0.010	B430769	<0.010	0.010	B430769
pH	pH	6.82	N/A	B430766	5.61	N/A	B430766	5.46	N/A	B430766
Acidity (pH 4.5)	mg/L	<1.0	1.0	B427665	<1.0	1.0	B427665	<1.0	1.0	B427665
Alkalinity (Total as CaCO ₃)	mg/L	16.1	0.50	B430670	<0.50	0.50	B430670	<0.50	0.50	B430670
Total Organic Carbon (C)	mg/L	11	0.20	B430440	<0.20	0.20	B430440	<0.20	0.20	B430440
Acidity (pH 8.3)	mg/L	5.6	1.0	B427665	<1.0	1.0	B427665	<1.0	1.0	B427665
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	B430670	<0.50	0.50	B430670	<0.50	0.50	B430670
Bicarbonate (HCO ₃)	mg/L	19.7	0.50	B430670	<0.50	0.50	B430670	<0.50	0.50	B430670
Carbonate (CO ₃)	mg/L	<0.50	0.50	B430670	<0.50	0.50	B430670	<0.50	0.50	B430670
Hydroxide (OH)	mg/L	<0.50	0.50	B430670	<0.50	0.50	B430670	<0.50	0.50	B430670
Total Suspended Solids	mg/L	4.4	1.0	B422343	<0.99	0.99	B422343	<0.99	0.99	B422343
Anions										
Orthophosphate (P)	mg/L	<0.0010	0.0010	B423428	<0.0010	0.0010	B423428	<0.0010	0.0010	B423428
Chloride (Cl)	mg/L	1.8	0.50	B423453	<0.50	0.50	B423453	0.96	0.50	B423453
Dissolved-Low Level Sulphate (SO ₄)	mg/L	130	1.5	B430043	<0.30	0.30	B430043	<0.30	0.30	B430043
Nutrients										
Dissolved Phosphorus (P)	mg/L	0.0031	0.0020	B425496				<0.0020	0.0020	B425496
Total Phosphorus (P)	mg/L	0.010	0.0020	B425024	<0.0020	0.0020	B425024	<0.0020	0.0020	B425024
Total Ammonia (N)	mg/L	0.091	0.0050	B423085	<0.0050	0.0050	B423085	<0.0050	0.0050	B423085
Nitrite (N)	mg/L	0.0036	0.0010	B423859	0.0012	0.0010	B423859	0.0012	0.0010	B423859
Nitrate (N)	mg/L	0.47	0.0020	B423859	<0.0020	0.0020	B423859	<0.0020	0.0020	B423859
Total Nitrogen (N)	mg/L	1.2	0.020	B426020	<0.020	0.020	B426020	<0.020	0.020	B426020
RDL = Reportable Detection Limit										
N/A = Not Applicable										



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQF069			CQF070			CQF071		
Sampling Date		2024/06/23 10:33			2024/06/23 10:32			2024/06/23 10:55		
COC Number		101599			101599			101599		
	UNITS	SEEP-080	RDL	QC Batch	SEEP-2N1	RDL	QC Batch	SEEP-2N2	RDL	QC Batch
Lab Filtered Nutrients										
Dissolved Phosphorus (P)	mg/L				<0.0010	0.0010	B425480			
Physical Properties										
Conductivity	uS/cm	321	1.0	B430767	<1.0	1.0	B430767	1.1	1.0	B430767
Physical Properties										
Turbidity - NTU	NTU	4.7	0.10	B422493	<0.10	0.10	B422493	<0.10	0.10	B422493
RDL = Reportable Detection Limit										



MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID		CQF069	CQF071		
Sampling Date		2024/06/23 10:33	2024/06/23 10:55		
COC Number		101599	101599		
	UNITS	SEEP-080	SEEP-2N2	RDL	QC Batch
Elements					
Dissolved Mercury (Hg)	mg/L	<0.0000019	<0.0000019	0.0000019	B424896
Total Mercury (Hg)	mg/L	0.0000025	<0.0000019	0.0000019	B425070
RDL = Reportable Detection Limit					



BUREAU
VERITAS

Bureau Veritas Job #: C448064

Report Date: 2024/07/11

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQF069			CQF070			CQF071		
Sampling Date		2024/06/23 10:33			2024/06/23 10:32			2024/06/23 10:55		
COC Number		101599			101599			101599		
	UNITS	SEEP-080	RDL	QC Batch	SEEP-2N1	RDL	QC Batch	SEEP-2N2	RDL	QC Batch

Elements										
Dissolved Aluminum (Al)	mg/L	0.097	0.0030	B424546				<0.0030	0.0030	B424546
Total Aluminum (Al)	mg/L	0.17	0.0030	B429781	<0.0030	0.0030	B429781	<0.0030	0.0030	B429781
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B424546				<0.00060	0.00060	B424546
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B429781	<0.00060	0.00060	B429781	<0.00060	0.00060	B429781
Dissolved Arsenic (As)	mg/L	0.00065	0.00020	B424546				<0.00020	0.00020	B424546
Total Arsenic (As)	mg/L	0.00089	0.00020	B429781	<0.00020	0.00020	B429781	<0.00020	0.00020	B429781
Dissolved Barium (Ba)	mg/L	0.049	0.010	B425845				<0.010	0.010	B425846
Total Barium (Ba)	mg/L	0.050	0.010	B429784	<0.010	0.010	B429784	<0.010	0.010	B429784
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B424546				<0.0010	0.0010	B424546
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B429781	<0.0010	0.0010	B429781	<0.0010	0.0010	B429781
Dissolved Boron (B)	mg/L	<0.020	0.020	B425845				<0.020	0.020	B425846
Total Boron (B)	mg/L	<0.020	0.020	B429784	<0.020	0.020	B429784	<0.020	0.020	B429784
Dissolved Cadmium (Cd)	mg/L	0.00025	0.000020	B424546				<0.000020	0.000020	B424546
Total Cadmium (Cd)	mg/L	0.00042	0.000020	B429781	<0.000020	0.000020	B429781	<0.000020	0.000020	B429781
Dissolved Calcium (Ca)	mg/L	21	0.30	B425845				<0.30	0.30	B425846
Total Calcium (Ca)	mg/L	20	0.30	B429784	<0.30	0.30	B429784	<0.30	0.30	B429784
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B424546				<0.0010	0.0010	B424546
Total Chromium (Cr)	mg/L	0.0011	0.0010	B429781	<0.0010	0.0010	B429781	<0.0010	0.0010	B429781
Dissolved Cobalt (Co)	mg/L	0.017	0.00030	B424546				<0.00030	0.00030	B424546
Total Cobalt (Co)	mg/L	0.022	0.00030	B429781	<0.00030	0.00030	B429781	<0.00030	0.00030	B429781
Dissolved Copper (Cu)	mg/L	0.0078	0.0010	B424546				<0.0010	0.0010	B424546
Total Copper (Cu)	mg/L	0.013	0.0010	B429781	<0.0010	0.0010	B429781	<0.0010	0.0010	B429781
Dissolved Iron (Fe)	mg/L	0.40	0.060	B425845				<0.060	0.060	B425846
Total Iron (Fe)	mg/L	0.63	0.060	B429784	<0.060	0.060	B429784	<0.060	0.060	B429784
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B433309				<0.00020	0.00020	B429900
Total Lead (Pb)	mg/L	<0.00020	0.00020	B429781	<0.00020	0.00020	B429781	<0.00020	0.00020	B429781
Dissolved Lithium (Li)	mg/L	0.039	0.020	B425845				<0.020	0.020	B425846
Total Lithium (Li)	mg/L	0.025	0.020	B429784	<0.020	0.020	B429784	<0.020	0.020	B429784
Dissolved Magnesium (Mg)	mg/L	21	0.20	B425845				<0.20	0.20	B425846
Total Magnesium (Mg)	mg/L	19	0.20	B429784	<0.20	0.20	B429784	<0.20	0.20	B429784
Dissolved Manganese (Mn)	mg/L	0.25	0.0040	B425845				<0.0040	0.0040	B425846
Total Manganese (Mn)	mg/L	0.24	0.0040	B429784	<0.0040	0.0040	B429784	<0.0040	0.0040	B429784

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C448064

Report Date: 2024/07/11

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQF069			CQF070			CQF071		
Sampling Date		2024/06/23 10:33			2024/06/23 10:32			2024/06/23 10:55		
COC Number		101599			101599			101599		
	UNITS	SEEP-080	RDL	QC Batch	SEEP-2N1	RDL	QC Batch	SEEP-2N2	RDL	QC Batch
Dissolved Molybdenum (Mo)	mg/L	0.00035	0.00020	B424546				<0.00020	0.00020	B424546
Total Molybdenum (Mo)	mg/L	0.00043	0.00020	B429781	<0.00020	0.00020	B429781	<0.00020	0.00020	B429781
Dissolved Nickel (Ni)	mg/L	0.13	0.00050	B424546				<0.00050	0.00050	B433309
Total Nickel (Ni)	mg/L	0.17	0.00050	B429781	<0.00050	0.00050	B429781	<0.00050	0.00050	B429781
Dissolved Potassium (K)	mg/L	5.9	0.30	B425845				<0.30	0.30	B425846
Total Potassium (K)	mg/L	5.5	0.30	B429784	<0.30	0.30	B429784	<0.30	0.30	B429784
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B424546				<0.00020	0.00020	B424546
Total Selenium (Se)	mg/L	<0.00020	0.00020	B429781	<0.00020	0.00020	B429781	<0.00020	0.00020	B429781
Dissolved Silicon (Si)	mg/L	3.8	0.50	B425845				<0.50	0.50	B425846
Total Silicon (Si)	mg/L	3.5	0.50	B429784	<0.50	0.50	B429784	<0.50	0.50	B429784
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B424546				<0.00010	0.00010	B424546
Total Silver (Ag)	mg/L	<0.00010	0.00010	B429781	<0.00010	0.00010	B429781	<0.00010	0.00010	B429781
Dissolved Sodium (Na)	mg/L	5.4	0.50	B425845				<0.50	0.50	B425846
Total Sodium (Na)	mg/L	4.9	0.50	B429784	<0.50	0.50	B429784	<0.50	0.50	B429784
Dissolved Strontium (Sr)	mg/L	0.16	0.020	B425845				<0.020	0.020	B425846
Total Strontium (Sr)	mg/L	0.15	0.020	B429784	<0.020	0.020	B429784	<0.020	0.020	B429784
Dissolved Sulphur (S)	mg/L	44	0.20	B425845				<0.20	0.20	B425846
Total Sulphur (S)	mg/L	38	0.20	B429784	<0.20	0.20	B429784	<0.20	0.20	B429784
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B424546				<0.00020	0.00020	B424546
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B429781	<0.00020	0.00020	B429781	<0.00020	0.00020	B429781
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B424546				<0.0010	0.0010	B424546
Total Tin (Sn)	mg/L	<0.0010	0.0010	B429781	<0.0010	0.0010	B429781	<0.0010	0.0010	B429781
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B424546				<0.0010	0.0010	B424546
Total Titanium (Ti)	mg/L	0.0040	0.0010	B429781	<0.0010	0.0010	B429781	<0.0010	0.0010	B429781
Dissolved Uranium (U)	mg/L	0.00047	0.00010	B424546				<0.00010	0.00010	B424546
Total Uranium (U)	mg/L	0.00066	0.00010	B429781	<0.00010	0.00010	B429781	<0.00010	0.00010	B429781
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B424546				<0.0010	0.0010	B424546
Total Vanadium (V)	mg/L	<0.0010	0.0010	B429781	<0.0010	0.0010	B429781	<0.0010	0.0010	B429781
Dissolved Zinc (Zn)	mg/L	0.073	0.0030	B424546				<0.0030	0.0030	B424546
Total Zinc (Zn)	mg/L	0.10	0.0030	B429781	<0.0030	0.0030	B429781	<0.0030	0.0030	B429781
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L				<0.0030	0.0030	B423574			
Dissolved Antimony (Sb)	mg/L				<0.00060	0.00060	B423574			
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C448064

Report Date: 2024/07/11

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQF069			CQF070			CQF071		
Sampling Date		2024/06/23 10:33			2024/06/23 10:32			2024/06/23 10:55		
COC Number		101599			101599			101599		
	UNITS	SEEP-080	RDL	QC Batch	SEEP-2N1	RDL	QC Batch	SEEP-2N2	RDL	QC Batch
Dissolved Arsenic (As)	mg/L				<0.00020	0.00020	B423574			
Dissolved Barium (Ba)	mg/L				<0.010	0.010	B427086			
Dissolved Beryllium (Be)	mg/L				<0.0010	0.0010	B423574			
Dissolved Boron (B)	mg/L				<0.020	0.020	B427086			
Dissolved Cadmium (Cd)	mg/L				<0.000020	0.000020	B423574			
Dissolved Calcium (Ca)	mg/L				<0.30	0.30	B427086			
Dissolved Chromium (Cr)	mg/L				<0.0010	0.0010	B423574			
Dissolved Cobalt (Co)	mg/L				<0.00030	0.00030	B423574			
Dissolved Copper (Cu)	mg/L				<0.0010	0.0010	B423574			
Dissolved Iron (Fe)	mg/L				<0.060	0.060	B427086			
Dissolved Lead (Pb)	mg/L				<0.00020	0.00020	B423574			
Dissolved Lithium (Li)	mg/L				<0.020	0.020	B427086			
Dissolved Magnesium (Mg)	mg/L				<0.20	0.20	B427086			
Dissolved Manganese (Mn)	mg/L				<0.0040	0.0040	B427086			
Dissolved Molybdenum (Mo)	mg/L				<0.00020	0.00020	B423574			
Dissolved Nickel (Ni)	mg/L				<0.00050	0.00050	B423574			
Dissolved Potassium (K)	mg/L				<0.30	0.30	B427086			
Dissolved Selenium (Se)	mg/L				<0.00020	0.00020	B423574			
Dissolved Silicon (Si)	mg/L				<0.50	0.50	B427086			
Dissolved Silver (Ag)	mg/L				<0.00010	0.00010	B423574			
Dissolved Sodium (Na)	mg/L				<0.50	0.50	B427086			
Dissolved Strontium (Sr)	mg/L				<0.020	0.020	B427086			
Dissolved Sulphur (S)	mg/L				<0.20	0.20	B427086			
Dissolved Thallium (Tl)	mg/L				<0.00020	0.00020	B423574			
Dissolved Tin (Sn)	mg/L				<0.0010	0.0010	B423574			
Dissolved Titanium (Ti)	mg/L				<0.0010	0.0010	B423574			
Dissolved Uranium (U)	mg/L				<0.00010	0.00010	B423574			
Dissolved Vanadium (V)	mg/L				<0.0010	0.0010	B423574			
Dissolved Zinc (Zn)	mg/L				<0.0030	0.0030	B423574			
RDL = Reportable Detection Limit										



GENERAL COMMENTS

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

Package 1	6.5°C
Package 2	5.9°C
Package 3	5.5°C
Package 4	5.4°C
Package 5	7.2°C
Package 6	5.0°C
Package 7	4.2°C
Package 8	5.2°C
Package 9	3.3°C
Package 10	3.0°C
Package 11	3.5°C
Package 12	4.8°C
Package 13	4.8°C
Package 14	5.8°C
Package 15	4.4°C
Package 16	5.3°C
Package 17	2.6°C
Package 18	2.8°C
Package 19	2.2°C
Package 20	4.2°C
Package 21	3.8°C
Package 22	3.8°C
Package 23	1.6°C
Package 24	0.3°C
Package 25	2.2°C

Sample CQF069 [SEEP-080] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level. Sample was analyzed past method specified hold time for Acidity pH 4.5 & pH 8.3 (as CaCO₃). Sample was analyzed past method specified hold time for Alkalinity - Low Level.

Sample CQF070 [SEEP-2N1] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level. Sample was analyzed past method specified hold time for Acidity pH 4.5 & pH 8.3 (as CaCO₃). Sample was analyzed past method specified hold time for Alkalinity - Low Level.

Sample CQF071 [SEEP-2N2] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Orthophosphate LL by Automated Analyzer. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level. Sample was analyzed past method specified hold time for Acidity pH 4.5 & pH 8.3 (as CaCO₃). Sample was analyzed past method specified hold time for Alkalinity - Low Level.

Sample CQF069, Elements by ICPMS - Dissolved: Test repeated.

Sample CQF071, Elements by ICPMS - Dissolved: Test repeated.

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C448064
Report Date: 2024/07/11

Arctic Canadian Diamond Company Ltd
Site Location: MDMER/SNP/SEEPAGE
Your P.O. #: 6404002992

BUREAU
VERITAS

Bureau Veritas Job #: C448064

Report Date: 2024/07/11

QUALITY ASSURANCE REPORT

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B422343	Total Suspended Solids	2024/06/30	87	80 - 120	89	80 - 120	<0.99	mg/L	2.6	20		
B422493	Turbidity - NTU	2024/06/30			104	80 - 120	<0.10	NTU	0.97	20		
B423085	Total Ammonia (N)	2024/07/02	NC	80 - 120	103	80 - 120	<0.0050	mg/L	0.99	20		
B423428	Orthophosphate (P)	2024/07/02	90	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20		
B423453	Chloride (Cl)	2024/07/02	98	80 - 120	100	80 - 120	<0.50	mg/L				
B423574	Dissolved Aluminum (Al)	2024/07/02	98	80 - 120	111	80 - 120	<0.0030	mg/L	NC	20		
B423574	Dissolved Antimony (Sb)	2024/07/02	91	80 - 120	98	80 - 120	<0.00060	mg/L	NC	20		
B423574	Dissolved Arsenic (As)	2024/07/02	102	80 - 120	104	80 - 120	<0.00020	mg/L	6.1	20		
B423574	Dissolved Beryllium (Be)	2024/07/02	98	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
B423574	Dissolved Cadmium (Cd)	2024/07/02	92	80 - 120	96	80 - 120	<0.000020	mg/L				
B423574	Dissolved Chromium (Cr)	2024/07/02	95	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
B423574	Dissolved Cobalt (Co)	2024/07/02	92	80 - 120	101	80 - 120	<0.00030	mg/L	NC	20		
B423574	Dissolved Copper (Cu)	2024/07/02	93	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20		
B423574	Dissolved Lead (Pb)	2024/07/02	91	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20		
B423574	Dissolved Molybdenum (Mo)	2024/07/02	94	80 - 120	97	80 - 120	<0.00020	mg/L	0.44	20		
B423574	Dissolved Nickel (Ni)	2024/07/02	94	80 - 120	104	80 - 120	<0.00050	mg/L	3.0	20		
B423574	Dissolved Selenium (Se)	2024/07/02	104	80 - 120	102	80 - 120	<0.00020	mg/L	0.33	20		
B423574	Dissolved Silver (Ag)	2024/07/02	88	80 - 120	93	80 - 120	<0.00010	mg/L	NC	20		
B423574	Dissolved Thallium (Tl)	2024/07/02	91	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20		
B423574	Dissolved Tin (Sn)	2024/07/02	91	80 - 120	95	80 - 120	<0.0010	mg/L	2.2	20		
B423574	Dissolved Titanium (Ti)	2024/07/02	97	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
B423574	Dissolved Uranium (U)	2024/07/02	92	80 - 120	99	80 - 120	<0.00010	mg/L	1.2	20		
B423574	Dissolved Vanadium (V)	2024/07/02	99	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
B423574	Dissolved Zinc (Zn)	2024/07/02	98	80 - 120	106	80 - 120	<0.0030	mg/L	NC	20		
B423859	Nitrate (N)	2024/07/03	109	80 - 120	103	80 - 120	0.0037, RDL=0.0020 (1)	mg/L	0.13	20		
B423859	Nitrite (N)	2024/07/03	106	80 - 120	96	80 - 120	<0.0010	mg/L	17	20		
B424546	Dissolved Aluminum (Al)	2024/07/03	98	80 - 120	111	80 - 120	<0.0030	mg/L	12	20		
B424546	Dissolved Antimony (Sb)	2024/07/03	95	80 - 120	91	80 - 120	<0.00060	mg/L	NC	20		
B424546	Dissolved Arsenic (As)	2024/07/03	103	80 - 120	95	80 - 120	<0.00020	mg/L	4.6	20		
B424546	Dissolved Beryllium (Be)	2024/07/03	102	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
B424546	Dissolved Cadmium (Cd)	2024/07/04	96	80 - 120	91	80 - 120	<0.000020	mg/L				

BUREAU
VERITAS

Bureau Veritas Job #: C448064

Report Date: 2024/07/11

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B424546	Dissolved Chromium (Cr)	2024/07/03	97	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B424546	Dissolved Cobalt (Co)	2024/07/03	98	80 - 120	97	80 - 120	<0.00030	mg/L	13	20		
B424546	Dissolved Copper (Cu)	2024/07/03	97	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
B424546	Dissolved Molybdenum (Mo)	2024/07/03	98	80 - 120	95	80 - 120	<0.00020	mg/L	9.8	20		
B424546	Dissolved Nickel (Ni)	2024/07/03	94	80 - 120	96	80 - 120	<0.00050	mg/L	1.5	20		
B424546	Dissolved Selenium (Se)	2024/07/03	101	80 - 120	93	80 - 120	<0.00020	mg/L	NC	20		
B424546	Dissolved Silver (Ag)	2024/07/03	97	80 - 120	95	80 - 120	<0.00010	mg/L	NC	20		
B424546	Dissolved Thallium (Tl)	2024/07/03	97	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20		
B424546	Dissolved Tin (Sn)	2024/07/03	98	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20		
B424546	Dissolved Titanium (Ti)	2024/07/03	98	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20		
B424546	Dissolved Uranium (U)	2024/07/03	99	80 - 120	97	80 - 120	<0.00010	mg/L	11	20		
B424546	Dissolved Vanadium (V)	2024/07/03	101	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B424546	Dissolved Zinc (Zn)	2024/07/03	95	80 - 120	89	80 - 120	<0.0030	mg/L	NC	20		
B424896	Dissolved Mercury (Hg)	2024/07/04	98	80 - 120	99	80 - 120	<0.0000019	mg/L	NC	20		
B425024	Total Phosphorus (P)	2024/07/04	102	80 - 120	97	80 - 120	<0.0010	mg/L	4.1	20	96	80 - 120
B425070	Total Mercury (Hg)	2024/07/05	92	80 - 120	101	80 - 120	<0.0000019	mg/L	1.2	20		
B425480	Dissolved Phosphorus (P)	2024/07/04	94	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20	89	80 - 120
B425496	Dissolved Phosphorus (P)	2024/07/04	94	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20	90	80 - 120
B425845	Dissolved Barium (Ba)	2024/07/03	92	80 - 120	95	80 - 120	<0.010	mg/L	0.12	20		
B425845	Dissolved Boron (B)	2024/07/03	100	80 - 120	101	80 - 120	<0.020	mg/L	12	20		
B425845	Dissolved Calcium (Ca)	2024/07/03	NC	80 - 120	91	80 - 120	<0.30	mg/L	1.6	20		
B425845	Dissolved Iron (Fe)	2024/07/03	99	80 - 120	100	80 - 120	<0.060	mg/L	15	20		
B425845	Dissolved Lithium (Li)	2024/07/03	87	80 - 120	90	80 - 120	<0.020	mg/L	12	20		
B425845	Dissolved Magnesium (Mg)	2024/07/03	82	80 - 120	95	80 - 120	<0.20	mg/L	0.13	20		
B425845	Dissolved Manganese (Mn)	2024/07/03	99	80 - 120	99	80 - 120	<0.0040	mg/L	11	20		
B425845	Dissolved Potassium (K)	2024/07/03	95	80 - 120	97	80 - 120	<0.30	mg/L	2.6	20		
B425845	Dissolved Silicon (Si)	2024/07/03	85	80 - 120	93	80 - 120	<0.50	mg/L	10	20		
B425845	Dissolved Sodium (Na)	2024/07/03	NC	80 - 120	92	80 - 120	<0.50	mg/L	1.4	20		
B425845	Dissolved Strontium (Sr)	2024/07/03	88	80 - 120	94	80 - 120	<0.020	mg/L	1.9	20		
B425845	Dissolved Sulphur (S)	2024/07/03	91	80 - 120	96	80 - 120	<0.20	mg/L	10	20		
B425846	Dissolved Barium (Ba)	2024/07/03	99	80 - 120	99	80 - 120	<0.010	mg/L	NC	20		
B425846	Dissolved Boron (B)	2024/07/03	104	80 - 120	103	80 - 120	<0.020	mg/L	NC	20		
B425846	Dissolved Calcium (Ca)	2024/07/03	95	80 - 120	94	80 - 120	<0.30	mg/L	NC	20		

BUREAU
VERITAS

Bureau Veritas Job #: C448064

Report Date: 2024/07/11

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B425846	Dissolved Iron (Fe)	2024/07/03	100	80 - 120	103	80 - 120	<0.060	mg/L	NC	20		
B425846	Dissolved Lithium (Li)	2024/07/03	91	80 - 120	93	80 - 120	<0.020	mg/L	NC	20		
B425846	Dissolved Magnesium (Mg)	2024/07/03	98	80 - 120	100	80 - 120	<0.20	mg/L	NC	20		
B425846	Dissolved Manganese (Mn)	2024/07/03	100	80 - 120	102	80 - 120	<0.0040	mg/L	NC	20		
B425846	Dissolved Potassium (K)	2024/07/03	99	80 - 120	98	80 - 120	<0.30	mg/L	NC	20		
B425846	Dissolved Silicon (Si)	2024/07/03	91	80 - 120	95	80 - 120	<0.50	mg/L	NC	20		
B425846	Dissolved Sodium (Na)	2024/07/03	95	80 - 120	95	80 - 120	<0.50	mg/L	NC	20		
B425846	Dissolved Strontium (Sr)	2024/07/03	99	80 - 120	97	80 - 120	<0.020	mg/L	NC	20		
B425846	Dissolved Sulphur (S)	2024/07/03	98	80 - 120	98	80 - 120	<0.20	mg/L	NC	20		
B426020	Total Nitrogen (N)	2024/07/04	91	80 - 120	112	80 - 120	<0.020	mg/L	1.8	20	107	80 - 120
B427086	Dissolved Barium (Ba)	2024/07/04	101	80 - 120	96	80 - 120	<0.010	mg/L	8.5	20		
B427086	Dissolved Boron (B)	2024/07/04	105	80 - 120	103	80 - 120	<0.020	mg/L	NC	20		
B427086	Dissolved Calcium (Ca)	2024/07/04	97	80 - 120	90	80 - 120	<0.30	mg/L	3.6	20		
B427086	Dissolved Iron (Fe)	2024/07/04	108	80 - 120	110	80 - 120	<0.060	mg/L	NC	20		
B427086	Dissolved Lithium (Li)	2024/07/04	96	80 - 120	89	80 - 120	<0.020	mg/L	NC	20		
B427086	Dissolved Magnesium (Mg)	2024/07/04	97	80 - 120	91	80 - 120	<0.20	mg/L	4.2	20		
B427086	Dissolved Manganese (Mn)	2024/07/04	101	80 - 120	103	80 - 120	<0.0040	mg/L	1.5	20		
B427086	Dissolved Potassium (K)	2024/07/04	98	80 - 120	92	80 - 120	<0.30	mg/L	14	20		
B427086	Dissolved Silicon (Si)	2024/07/04	94	80 - 120	96	80 - 120	<0.50	mg/L	14	20		
B427086	Dissolved Sodium (Na)	2024/07/04	92	80 - 120	88	80 - 120	<0.50	mg/L	2.8	20		
B427086	Dissolved Strontium (Sr)	2024/07/04	95	80 - 120	91	80 - 120	<0.020	mg/L	2.4	20		
B427086	Dissolved Sulphur (S)	2024/07/04	103	80 - 120	100	80 - 120	<0.20	mg/L	8.0	20		
B427665	Acidity (pH 4.5)	2024/07/08					<1.0	mg/L	NC	20		
B427665	Acidity (pH 8.3)	2024/07/08			99	80 - 120	1.4, RDL=1.0 (2)	mg/L	NC	20		
B429781	Total Aluminum (Al)	2024/07/09	NC	80 - 120	109	80 - 120	<0.0030	mg/L	0.99	20		
B429781	Total Antimony (Sb)	2024/07/09	111	80 - 120	110	80 - 120	<0.00060	mg/L	NC	20		
B429781	Total Arsenic (As)	2024/07/09	108	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20		
B429781	Total Beryllium (Be)	2024/07/09	104	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
B429781	Total Cadmium (Cd)	2024/07/09	107	80 - 120	105	80 - 120	<0.000020	mg/L	NC	20		
B429781	Total Chromium (Cr)	2024/07/09	102	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
B429781	Total Cobalt (Co)	2024/07/09	103	80 - 120	100	80 - 120	<0.00030	mg/L	NC	20		
B429781	Total Copper (Cu)	2024/07/09	101	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		

BUREAU
VERITAS

Bureau Veritas Job #: C448064

Report Date: 2024/07/11

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B429781	Total Lead (Pb)	2024/07/09	103	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20		
B429781	Total Molybdenum (Mo)	2024/07/09	106	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20		
B429781	Total Nickel (Ni)	2024/07/09	102	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
B429781	Total Selenium (Se)	2024/07/09	108	80 - 120	107	80 - 120	<0.00020	mg/L	NC	20		
B429781	Total Silver (Ag)	2024/07/09	103	80 - 120	102	80 - 120	<0.00010	mg/L	NC	20		
B429781	Total Thallium (Tl)	2024/07/09	105	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20		
B429781	Total Tin (Sn)	2024/07/09	108	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20		
B429781	Total Titanium (Ti)	2024/07/09	102	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
B429781	Total Uranium (U)	2024/07/09	108	80 - 120	107	80 - 120	<0.00010	mg/L	NC	20		
B429781	Total Vanadium (V)	2024/07/09	105	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
B429781	Total Zinc (Zn)	2024/07/09	106	80 - 120	104	80 - 120	<0.0030	mg/L	NC	20		
B429784	Total Barium (Ba)	2024/07/09	NC	80 - 120	102	80 - 120	<0.010	mg/L	NC	20		
B429784	Total Boron (B)	2024/07/09	NC	80 - 120	106	80 - 120	<0.020	mg/L	NC	20		
B429784	Total Calcium (Ca)	2024/07/09	NC	80 - 120	95	80 - 120	<0.30	mg/L	NC	20		
B429784	Total Iron (Fe)	2024/07/09	NC	80 - 120	99	80 - 120	<0.060	mg/L	NC	20		
B429784	Total Lithium (Li)	2024/07/09	NC	80 - 120	94	80 - 120	<0.020	mg/L	NC	20		
B429784	Total Magnesium (Mg)	2024/07/09	NC	80 - 120	96	80 - 120	<0.20	mg/L	NC	20		
B429784	Total Manganese (Mn)	2024/07/09	137 (3)	80 - 120	106	80 - 120	<0.0040	mg/L	NC	20		
B429784	Total Potassium (K)	2024/07/09	NC	80 - 120	95	80 - 120	<0.30	mg/L	NC	20		
B429784	Total Silicon (Si)	2024/07/09	NC	80 - 120	93	80 - 120	<0.50	mg/L	NC	20		
B429784	Total Sodium (Na)	2024/07/09	NC	80 - 120	93	80 - 120	<0.50	mg/L				
B429784	Total Strontium (Sr)	2024/07/09	NC	80 - 120	102	80 - 120	<0.020	mg/L	NC	20		
B429784	Total Sulphur (S)	2024/07/09	110	80 - 120	92	80 - 120	<0.20	mg/L	NC	20		
B429900	Dissolved Lead (Pb)	2024/07/08	94	80 - 120	102	80 - 120	<0.00020	mg/L	13	20		
B430043	Dissolved-Low Level Sulphate (SO4)	2024/07/08	NC	80 - 120	99	80 - 120	<0.050	mg/L	0.0012	20		
B430440	Total Organic Carbon (C)	2024/07/08	110	80 - 120	100	80 - 120	<0.20	mg/L	4.8	20		
B430670	Alkalinity (PP as CaCO3)	2024/07/09					<0.50	mg/L	NC	20		
B430670	Alkalinity (Total as CaCO3)	2024/07/09			98	80 - 120	<0.50	mg/L	2.1	20		
B430670	Bicarbonate (HCO3)	2024/07/09					<0.50	mg/L	2.1	20		
B430670	Carbonate (CO3)	2024/07/09					<0.50	mg/L	NC	20		
B430670	Hydroxide (OH)	2024/07/09					<0.50	mg/L	NC	20		
B430766	pH	2024/07/09			100	97 - 103			1.2	N/A		
B430767	Conductivity	2024/07/09			100	90 - 110	<1.0	uS/cm	0	20		

BUREAU
VERITAS

Bureau Veritas Job #: C448064

Report Date: 2024/07/11

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B430769	Fluoride (F)	2024/07/09	93	80 - 120	98	80 - 120	<0.010	mg/L	NC	20		
B433309	Dissolved Lead (Pb)	2024/07/10	100	80 - 120	101	80 - 120	<0.00020	mg/L				
B433309	Dissolved Nickel (Ni)	2024/07/10	101	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20		

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 <= 2x RDL).

(1) Method blank exceeds acceptance limits, 2x RDL acceptable for low level analysis

(2) Method blank exceeds acceptance limits, 2x RDL acceptable for low acidity analysis

(3) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C448064

Report Date: 2024/07/11

Arctic Canadian Diamond Company Ltd

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

VALIDATION SIGNATURE PAGE

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

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.

CHAIN-OF-CUSTODY RECORD

BV JOB#:			
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT		✓	
INTACT		✓	
ICE PRESENT	✓		TEMP 3.6 3.6 3.2
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT			1 2 3
INTACT		✓	
ICE PRESENT	✓		TEMP 4.8 4.8 4.8
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT			1 2 3
INTACT		✓	
ICE PRESENT	✓		TEMP 4.8 4.8 4.8
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT			1 2 3
INTACT		✓	
ICE PRESENT	✓		TEMP 6.3 6.3 5.8
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT			1 2 3
INTACT		✓	
ICE PRESENT	✓		TEMP 4.6 4.4 4.1
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT			1 2 3
INTACT		✓	
ICE PRESENT	✓		TEMP 6.3 5.5 4.2
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT			1 2 3
INTACT		✓	
ICE PRESENT	✓		TEMP 3.3 2.6 1.9
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT			1 2 3
INTACT		✓	
ICE PRESENT	✓		TEMP 3.6 3.0 1.8
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT			1 2 3
INTACT		✓	
ICE PRESENT	✓		TEMP 2.2 2.2 2.2
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT			1 2 3
INTACT		✓	
ICE PRESENT	✓		TEMP 4.3 4.3 4.1
CUSTODY SEAL	YES	NO	COOLER ID
PRESENT			1 2 3
INTACT		✓	
ICE PRESENT	✓		

TIME (HH:MM)

150

CHAIN-OF-CUSTODY RECORD

[illegible]

COOLER OBSERVATIONS:				BV JOB#:			
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP	38	38	38	
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP	38	38	38	
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP	1.8	1.9	1.3	
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP	0.4	0.3	0.3	
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP	1.9	2.3	2.3	
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							
INTACT			TEMP				
ICE PRESENT				1	2	3	
CUSTODY SEAL	YES	NO	COOLER ID				
PRESENT							

RECEIVED BY (SIGN & PRINT)

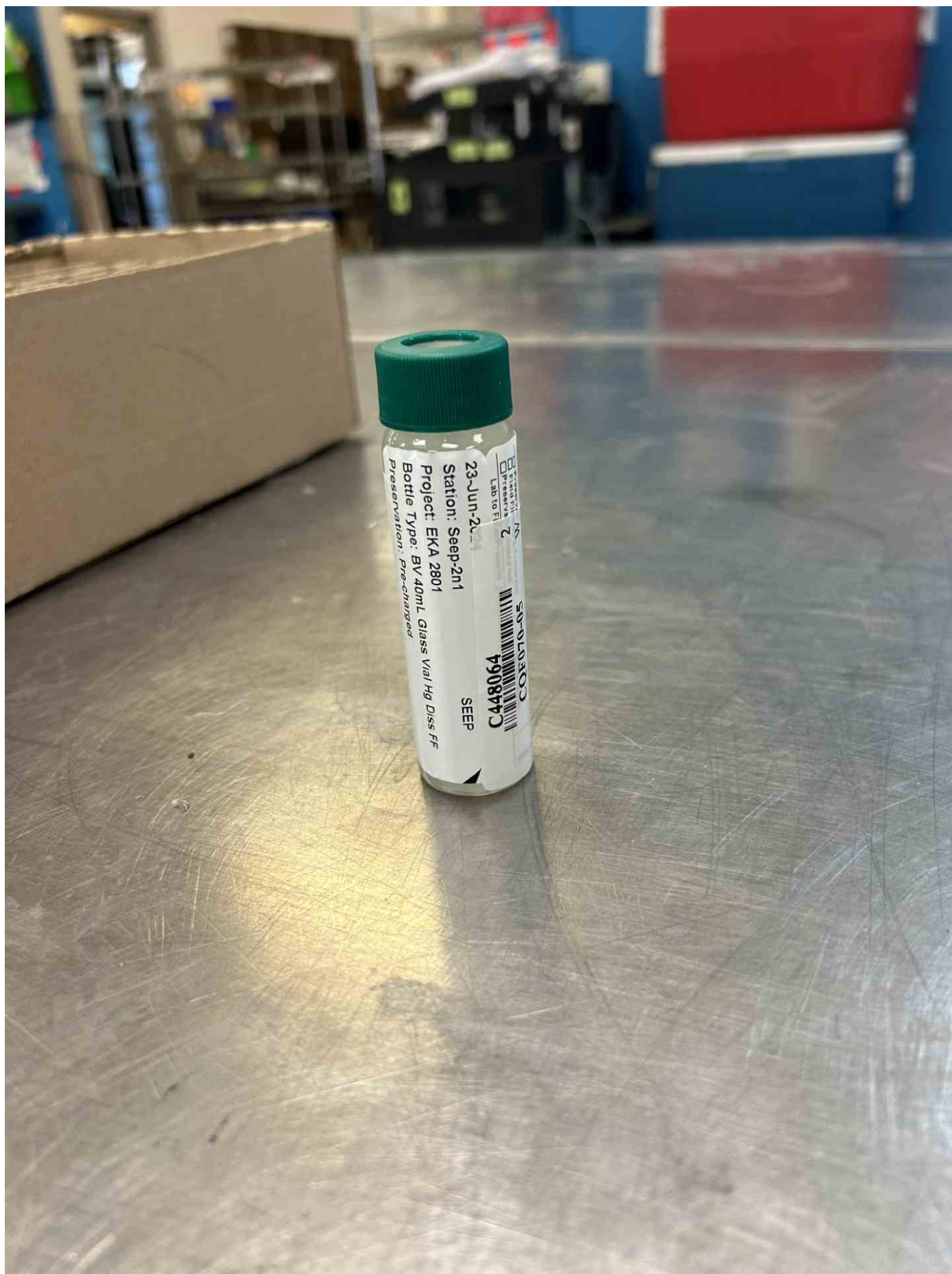
RECEIVED BY (SIGN & PRINT)
Sgt. Margoni Laugel

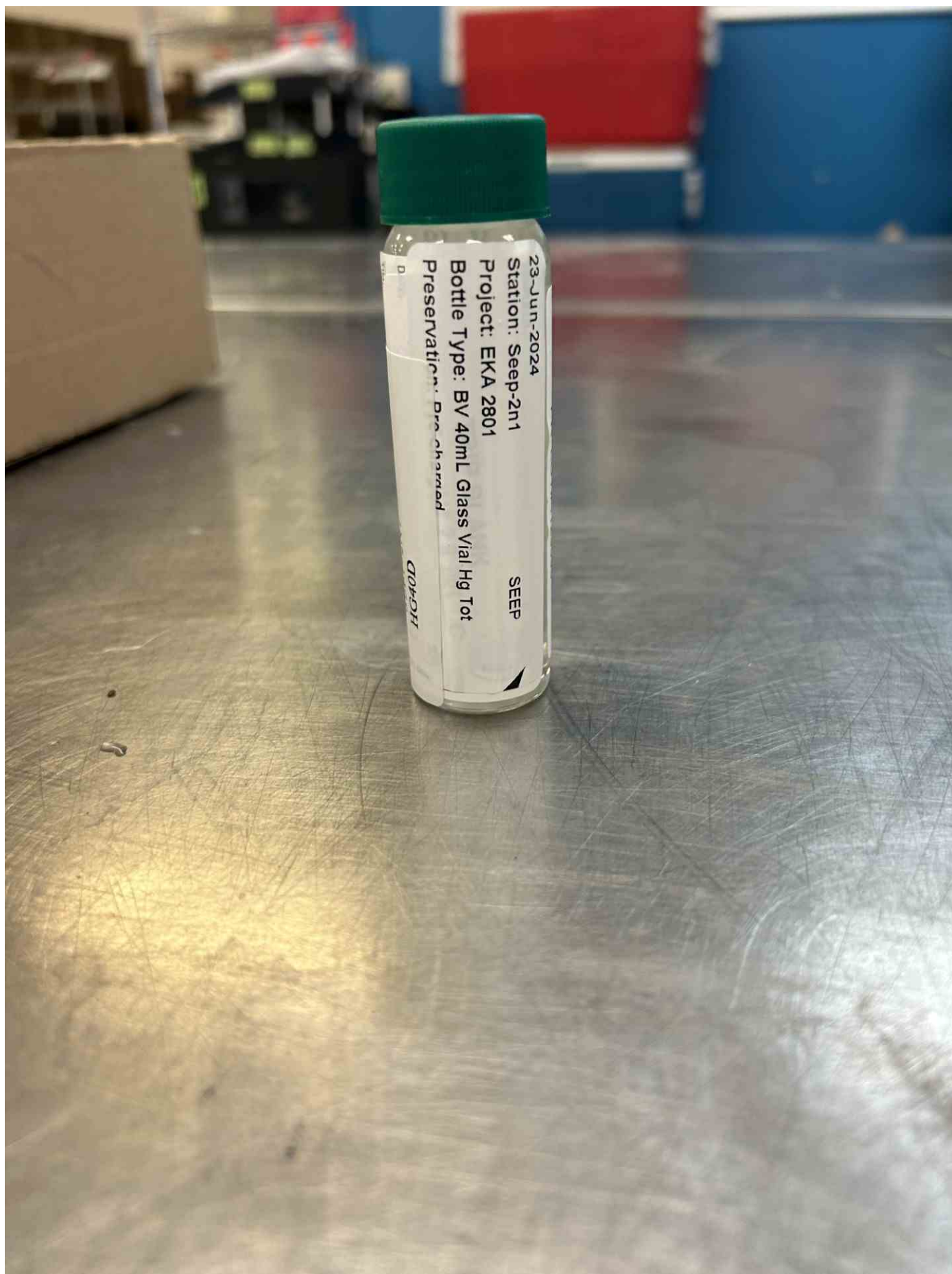
DATE (YYYY/MM/DD)

2024/06/27

TIME (HH:MM)

1500





COC# 101599
SO# 62829



**BUREAU
VERITAS**

900 - 606 4 Street SW, Calgary, Alberta, Canada T2P 1T1
Tel: 867-880-4400 ext 2157
Burgundy Contact: Richard Ehler / Jonah Kelly



BURGUNDY
DIAMOND MINES

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

Dissolved Nutrients	Major Ions	Seepage Total Nutrients	Standard Dissolved Metals	Standard Total Metals	pH Field (pH)	Water Temp (°C)
Y	Y	Y	Y	Y	6.31	9.4
Y	Y	Y	Y	Y		
Y	Y	Y	Y	Y		



MCAL-2024-06-2562

Please send results to Andre.Brazeau@arcticcanadian.ca;
Kelly.Whaley-Martin@erm.com

Date _____

Frozen? ☐ Yes ☐ No

Send Analytical Results to: compliance.team@burgundydiamonds.com

ITC: Yes



Your P.O. #: 6404002992
Your Project #: 62829
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101603

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/21
Report #: R3530069
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448044

Received: 2024/06/27, 15:00

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity pH 4.5 & pH 8.3 (as CaCO ₃)	4	N/A	2024/06/28	AB SOP-00005	SM 24 2310 B m
Alkalinity - Low Level	4	N/A	2024/07/09	AB SOP-00005	SM 24 2320 B m
Low level chloride/sulphate by AC	1	N/A	2024/06/28	AB SOP-00020	SM24-4500-Cl/SO ₄ -E m
Low level chloride/sulphate by AC	3	N/A	2024/07/02	AB SOP-00020	SM24-4500-Cl/SO ₄ -E m
Conductance - Low Level	4	N/A	2024/07/09	AB SOP-00005	SM 24 2510 B m
Fluoride - Low Level	4	N/A	2024/07/09	AB SOP-00005	SM 24 4500-F C m
Hardness Total (calculated as CaCO ₃) (2)	4	N/A	2024/07/09	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV (3)	4	2024/07/03	2024/07/03	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	4	2024/07/03	2024/07/05	AB SOP-00084	BCMOE BCLM Oct2013 m
Elements by ICP - Dissolved (3)	4	N/A	2024/06/29	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	3	2024/07/08	2024/07/09	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total	1	2024/07/09	2024/07/09	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS - Dissolved (3)	4	N/A	2024/06/29	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total	3	2024/07/08	2024/07/09	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total	1	2024/07/09	2024/07/09	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	4	N/A	2024/07/02	AB SOP-00007	SM 24 4500 NH ₃ A G m
Nitrate + Nitrite-N (calculated) Low Lev	1	N/A	2024/07/03		Auto Calc
Nitrate + Nitrite-N (calculated) Low Lev	3	N/A	2024/07/04		Auto Calc
Nitrogen (Nitrite - Nitrate) Low Level	4	N/A	2024/06/28	AB SOP-00023	SM 24 4110 B m
pH @25°C (4)	4	N/A	2024/07/09	AB SOP-00005	SM 24 4500-H+B m
pH (Field)	3	N/A	2024/06/27	Field Test	Field Test
Orthophosphate LL by Automated Analyzer (5)	4	N/A	2024/06/28	AB SOP-00025	SM 24 4500-P A, F m
Sulphate (SO ₄) by IC	1	N/A	2024/06/28	AB SOP-00026	SM 24 4110 B m
Sulphate (SO ₄) by IC	3	N/A	2024/07/08	AB SOP-00026	SM 24 4110 B m
Temperature (Field)	3	N/A	2024/06/27	Field Test	Field Test
Total Kjeldahl Nitrogen (Total)	1	N/A	2024/07/03	BBY WI-00033	Auto Calc
Total Kjeldahl Nitrogen (Total)	3	N/A	2024/07/04	BBY WI-00033	Auto Calc
Nitrogen (Total)	4	2024/06/28	2024/07/02	AB SOP-00093	SM 24 4500-N C m



Your P.O. #: 6404002992
Your Project #: 62829
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101603

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/21
Report #: R3530069
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448044

Received: 2024/06/27, 15:00

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Carbon (Total Organic) (6)	4	N/A	2024/07/12	AB SOP-00087	MMCW 119 1996 m
Total Phosphorus Low Level Dissolved (7)	3	2024/06/29	2024/07/02	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Dissolved (7)	1	2024/06/29	2024/07/03	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	2	2024/06/29	2024/07/02	AB SOP-00024	SM 24 4500-P A,B,F m
Total Phosphorus Low Level Total	2	2024/06/30	2024/07/03	AB SOP-00024	SM 24 4500-P A,B,F m
Total Suspended Solids (NFR)	4	2024/06/29	2024/07/02	AB SOP-00061	SM 24 2540 D m
Turbidity	4	N/A	2024/06/28	CAL SOP-00081	SM 24 2130 B m
Ion Balance (8)	4	N/A	2024/07/09		
Total Dissolved Solids (Calculated) (8)	4	N/A	2024/07/10		
Radium Isotopes by Alpha Spectrometry (1, 9)	2	N/A	2024/07/19	BQL SOP-00006 BQL SOP-00017 BQL SOP-00032	Alpha Spectrometry

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, EPA, APHA or the Quebec Ministry of Environment.

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.

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.



Your P.O. #: 6404002992
Your Project #: 62829
Site Location: MDMER/SNP/SEEPAGE
Your C.O.C. #: 101603

Attention: COMPLIANCE TEAM

Arctic Canadian Diamond Company Ltd
900, 606 4 Street SW
Calgary, AB
CANADA T2P 1T1

Report Date: 2024/07/21
Report #: R3530069
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C448044

Received: 2024/06/27, 15:00

- (1) This test was performed by Bureau Veritas Kitimat, 6790 Kitimat Rd., Unit 4, Mississauga, Ontario, L5N 5L9
- (2) "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).
- (3) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
- (5) Orthophosphate > Total Phosphorus Imbalance: When applicable, Orthophosphate, Total Phosphorus and dissolved Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (6) TOC present in the sample should be considered as non-purgeable TOC.
- (7) Dissolved Phosphorus > Total Phosphorus Imbalance: When applicable, Dissolved Phosphorus and Total Phosphorus results were reviewed and data quality meets acceptable levels unless otherwise noted.
- (8) Calculation was conducted as per client request using CAL PDF-00333.
- (9) Radium-226 results have not been corrected for blanks.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Geraldyn Gouthro, Key Account Specialist
Email: geraldyn.gouthro@bureauveritas.com
Phone# (403) 291-3077

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This report has been generated and distributed using a secure automated process.

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C448044

Report Date: 2024/07/21

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQE999			CQF000			CQF001		
Sampling Date		2024/06/24 11:40			2024/06/24 12:45			2024/06/24 12:15		
COC Number		101603			101603			101603		
	UNITS	SEEP-080A	RDL	QC Batch	SEEP-081A	RDL	QC Batch	SEEP-081	RDL	QC Batch
RADIONUCLIDE										
Radium 226	Bq/l							0.010	0.010	B445868
Calculated Parameters										
Total Hardness (CaCO ₃)	mg/L	130	0.50	B418673	203	0.50	B418673	214	0.50	B418673
Calculated Ion Balance (% Difference)	%	1.9		B419701	2.8		B419701	1.4		B419701
Nitrate plus Nitrite (N)	mg/L	0.50	0.0022	B419698	7.9	0.0022	B419698	7.8	0.0022	B419698
Calculated Total Dissolved Solids	mg/L	190	3.1	B419703	330	1.7	B419703	340	1.7	B419703
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.625	0.020	B423540	0.13	0.10	B423540	0.50	0.10	B423540
Field Parameters										
Field pH	pH	6.43	N/A	ONSITE	6.94	N/A	ONSITE	7.09	N/A	ONSITE
Field Temperature (Fd)	deg. C	7.9	N/A	ONSITE	6.4	N/A	ONSITE	5.6	N/A	ONSITE
Misc. Inorganics										
Fluoride (F)	mg/L	0.096	0.010	B431384	0.185	0.010	B431384	0.191	0.010	B431384
pH	pH	6.91	N/A	B431381	7.30	N/A	B431381	7.37	N/A	B431381
Acidity (pH 4.5)	mg/L	<1.0	1.0	B421336	<1.0	1.0	B421336	<1.0	1.0	B421336
Alkalinity (Total as CaCO ₃)	mg/L	17.4	0.50	B431379	35.9	0.50	B431379	38.7	0.50	B431379
Total Organic Carbon (C)	mg/L	11	0.20	B435064	4.9	0.20	B435064	5.4	0.20	B435064
Acidity (pH 8.3)	mg/L	6.9	1.0	B421336	6.7	1.0	B421336	7.3	1.0	B421336
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	B431379	<0.50	0.50	B431379	<0.50	0.50	B431379
Bicarbonate (HCO ₃)	mg/L	21.2	0.50	B431379	43.9	0.50	B431379	47.2	0.50	B431379
Carbonate (CO ₃)	mg/L	<0.50	0.50	B431379	<0.50	0.50	B431379	<0.50	0.50	B431379
Hydroxide (OH)	mg/L	<0.50	0.50	B431379	<0.50	0.50	B431379	<0.50	0.50	B431379
Total Suspended Solids	mg/L	<1.0	1.0	B421888	<1.0	1.0	B421888	2.1	1.0	B421888
Anions										
Orthophosphate (P)	mg/L	<0.0010	0.0010	B421646	0.0035	0.0010	B420401	0.0044	0.0010	B420401
Chloride (Cl)	mg/L	<0.50	0.50	B420885	3.8	0.50	B423453	3.9	0.50	B423453
Dissolved-Low Level Sulphate (SO ₄)	mg/L	130	3.0	B421388	180	1.5	B430043	190	1.5	B430043
Nutrients										
Dissolved Phosphorus (P)	mg/L	0.0032	0.0020	B421983	0.0049	0.0020	B421983	0.0073	0.0020	B421983
Total Phosphorus (P)	mg/L	0.0073	0.0020	B421976	0.010	0.0020	B422463	0.014	0.0020	B422463
Total Ammonia (N)	mg/L	0.065	0.0050	B423085	0.27	0.0050	B423088	0.57	0.0050	B423085
Nitrite (N)	mg/L	0.0023	0.0010	B420703	0.040	0.0010	B421448	0.092	0.0010	B421448
RDL = Reportable Detection Limit										
N/A = Not Applicable										



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQE999			CQF000			CQF001		
Sampling Date		2024/06/24 11:40			2024/06/24 12:45			2024/06/24 12:15		
COC Number		101603			101603			101603		
	UNITS	SEEP-080A	RDL	QC Batch	SEEP-081A	RDL	QC Batch	SEEP-081	RDL	QC Batch
Nitrate (N)	mg/L	0.50	0.0020	B420703	7.8	0.0020	B421448	7.7	0.0020	B421448
Total Nitrogen (N)	mg/L	1.1	0.020	B420701	8.0	0.10	B420701	8.3	0.10	B420701
Physical Properties										
Conductivity	uS/cm	327	1.0	B431382	516	1.0	B431382	520	1.0	B431382
Physical Properties										
Turbidity - NTU	NTU	3.4	0.10	B420531	3.9	0.10	B420531	3.8	0.10	B420531
RDL = Reportable Detection Limit										



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQF002		
Sampling Date		2024/06/24 12:26		
COC Number		101603		
	UNITS	SEEP-2N2	RDL	QC Batch
RADIONUCLIDE				
Radium 226	Bq/l	<0.010	0.010	B445868
Calculated Parameters				
Total Hardness (CaCO ₃)	mg/L	<0.50	0.50	B418673
Calculated Ion Balance (% Difference)	%	NC		B419701
Nitrate plus Nitrite (N)	mg/L	0.0024	0.0022	B419698
Calculated Total Dissolved Solids	mg/L	<0.95	0.95	B419703
Total Total Kjeldahl Nitrogen (Calc)	mg/L	<0.020	0.020	B423540
Misc. Inorganics				
Fluoride (F)	mg/L	0.014	0.010	B431384
pH	pH	5.97	N/A	B431381
Acidity (pH 4.5)	mg/L	<1.0	1.0	B421336
Alkalinity (Total as CaCO ₃)	mg/L	<0.50	0.50	B431379
Total Organic Carbon (C)	mg/L	0.22	0.20	B435064
Acidity (pH 8.3)	mg/L	<1.0	1.0	B421336
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	B431379
Bicarbonate (HCO ₃)	mg/L	<0.50	0.50	B431379
Carbonate (CO ₃)	mg/L	<0.50	0.50	B431379
Hydroxide (OH)	mg/L	<0.50	0.50	B431379
Total Suspended Solids	mg/L	<1.0	1.0	B421888
Anions				
Orthophosphate (P)	mg/L	<0.0010	0.0010	B420401
Chloride (Cl)	mg/L	0.84	0.50	B423453
Dissolved-Low Level Sulphate (SO ₄)	mg/L	<0.30	0.30	B430043
Nutrients				
Dissolved Phosphorus (P)	mg/L	<0.0020	0.0020	B421983
Total Phosphorus (P)	mg/L	<0.0020	0.0020	B421976
Total Ammonia (N)	mg/L	<0.0050	0.0050	B423085
Nitrite (N)	mg/L	<0.0010	0.0010	B421448
Nitrate (N)	mg/L	0.0024	0.0020	B421448
RDL = Reportable Detection Limit				
N/A = Not Applicable				



RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQF002		
Sampling Date		2024/06/24 12:26		
COC Number		101603		
	UNITS	SEEP-2N2	RDL	QC Batch
Total Nitrogen (N)	mg/L	<0.020 (1)	0.020	B420701
Physical Properties				
Conductivity	uS/cm	1.1	1.0	B431382
Physical Properties				
Turbidity - NTU	NTU	0.11	0.10	B420531
RDL = Reportable Detection Limit (1) Nitrogen < Nitrate: Both values fall within the method uncertainty for duplicates and are likely equivalent.				



BUREAU
VERITAS

Bureau Veritas Job #: C448044
Report Date: 2024/07/21

Arctic Canadian Diamond Company Ltd
Client Project #: 62829
Site Location: MDMER/SNP/SEEPAGE
Your P.O. #: 6404002992

MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID		CQE999		CQF000	CQF001	CQF002		
Sampling Date		2024/06/24 11:40		2024/06/24 12:45	2024/06/24 12:15	2024/06/24 12:26		
COC Number		101603		101603	101603	101603		
	UNITS	SEEP-080A	QC Batch	SEEP-081A	SEEP-081	SEEP-2N2	RDL	QC Batch
Elements								
Dissolved Mercury (Hg)	mg/L	0.0000021	B424721	<0.0000019	<0.0000019	<0.0000019	0.0000019	B424721
Total Mercury (Hg)	mg/L	0.0000032	B424650	0.0000020	0.0000020	<0.0000019	0.0000019	B424655
RDL = Reportable Detection Limit								



BUREAU
VERITAS

Bureau Veritas Job #: C448044

Report Date: 2024/07/21

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQE999		CQF000		CQF001		
Sampling Date		2024/06/24 11:40		2024/06/24 12:45		2024/06/24 12:15		
COC Number		101603		101603		101603		
	UNITS	SEEP-080A	QC Batch	SEEP-081A	QC Batch	SEEP-081	RDL	QC Batch
Elements								
Dissolved Aluminum (Al)	mg/L	0.086	B422002	0.069	B422002	0.076	0.0030	B422002
Total Aluminum (Al)	mg/L	0.13	B430526	0.18	B431318	0.22	0.0030	B430526
Dissolved Antimony (Sb)	mg/L	<0.00060	B422002	<0.00060	B422002	<0.00060	0.00060	B422002
Total Antimony (Sb)	mg/L	<0.00060	B430526	<0.00060	B431318	<0.00060	0.00060	B430526
Dissolved Arsenic (As)	mg/L	0.00064	B422002	0.00097	B422002	0.0011	0.00020	B422002
Total Arsenic (As)	mg/L	0.00083	B430526	0.0013	B431318	0.0014	0.00020	B430526
Dissolved Barium (Ba)	mg/L	0.051	B421965	0.051	B421969	0.048	0.010	B421969
Total Barium (Ba)	mg/L	0.050	B430534	0.051	B431321	0.054	0.010	B430534
Dissolved Beryllium (Be)	mg/L	<0.0010	B422002	<0.0010	B422002	<0.0010	0.0010	B422002
Total Beryllium (Be)	mg/L	<0.0010	B430526	<0.0010	B431318	<0.0010	0.0010	B430526
Dissolved Boron (B)	mg/L	<0.020	B421965	<0.020	B421969	<0.020	0.020	B421969
Total Boron (B)	mg/L	<0.020	B430534	0.027	B431321	0.021	0.020	B430534
Dissolved Cadmium (Cd)	mg/L	0.00025	B422002	0.00054	B422002	0.00065	0.000020	B422002
Total Cadmium (Cd)	mg/L	0.00038	B430526	0.00067	B431318	0.00079	0.000020	B430526
Dissolved Calcium (Ca)	mg/L	19	B421965	35	B421969	36	0.30	B421969
Total Calcium (Ca)	mg/L	20	B430534	38	B431321	38	0.30	B430534
Dissolved Chromium (Cr)	mg/L	<0.0010	B422002	<0.0010	B422002	<0.0010	0.0010	B422002
Total Chromium (Cr)	mg/L	0.0012	B430526	<0.0010	B431318	<0.0010	0.0010	B430526
Dissolved Cobalt (Co)	mg/L	0.017	B422002	0.023	B422002	0.030	0.00030	B422002
Total Cobalt (Co)	mg/L	0.020	B430526	0.028	B431318	0.038	0.00030	B430526
Dissolved Copper (Cu)	mg/L	0.0078	B422002	0.019	B422002	0.024	0.0010	B422002
Total Copper (Cu)	mg/L	0.012	B430526	0.026	B431318	0.034	0.0010	B430526
Dissolved Iron (Fe)	mg/L	0.32	B421965	0.22	B421969	0.29	0.060	B421969
Total Iron (Fe)	mg/L	0.51	B430534	0.39	B431321	0.56	0.060	B430534
Dissolved Lead (Pb)	mg/L	<0.00020	B422002	<0.00020	B422002	0.00023	0.00020	B422002
Total Lead (Pb)	mg/L	<0.00020	B430526	0.00033	B431318	0.00048	0.00020	B430526
Dissolved Lithium (Li)	mg/L	<0.020	B421965	0.043	B421969	0.048	0.020	B421969
Total Lithium (Li)	mg/L	0.031	B430534	0.042	B431321	0.033	0.020	B430534
Dissolved Magnesium (Mg)	mg/L	19	B421965	25	B421969	26	0.20	B421969
Total Magnesium (Mg)	mg/L	19	B430534	27	B431321	29	0.20	B430534
Dissolved Manganese (Mn)	mg/L	0.19	B421965	0.30	B421969	0.42	0.0040	B421969
RDL = Reportable Detection Limit								



BUREAU
VERITAS

Bureau Veritas Job #: C448044

Report Date: 2024/07/21

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQE999		CQF000		CQF001		
Sampling Date		2024/06/24 11:40		2024/06/24 12:45		2024/06/24 12:15		
COC Number		101603		101603		101603		
	UNITS	SEEP-080A	QC Batch	SEEP-081A	QC Batch	SEEP-081	RDL	QC Batch
Total Manganese (Mn)	mg/L	0.19	B430534	0.32	B431321	0.50	0.0040	B430534
Dissolved Molybdenum (Mo)	mg/L	0.00040	B422002	0.0045	B422002	0.0047	0.00020	B422002
Total Molybdenum (Mo)	mg/L	0.00038	B430526	0.0053	B431318	0.0056	0.00020	B430526
Dissolved Nickel (Ni)	mg/L	0.15	B422002	0.11	B422002	0.12	0.00050	B422002
Total Nickel (Ni)	mg/L	0.17	B430526	0.14	B431318	0.15	0.00050	B430526
Dissolved Potassium (K)	mg/L	5.4	B421965	11	B421969	12	0.30	B421969
Total Potassium (K)	mg/L	5.7	B430534	12	B431321	13	0.30	B430534
Dissolved Selenium (Se)	mg/L	<0.00020	B422002	0.00070	B422002	0.00070	0.00020	B422002
Total Selenium (Se)	mg/L	<0.00020	B430526	0.00081	B431318	0.00083	0.00020	B430526
Dissolved Silicon (Si)	mg/L	3.3	B421965	3.9	B421969	4.2	0.50	B421969
Total Silicon (Si)	mg/L	3.9	B430534	4.4	B431321	5.2	0.50	B430534
Dissolved Silver (Ag)	mg/L	<0.00010	B422002	<0.00010	B422002	<0.00010	0.00010	B422002
Total Silver (Ag)	mg/L	<0.00010	B430526	<0.00010	B431318	<0.00010	0.00010	B430526
Dissolved Sodium (Na)	mg/L	5.1	B421965	10	B421969	11	0.50	B421969
Total Sodium (Na)	mg/L	5.2	B430534	11	B431321	11	0.50	B430534
Dissolved Strontium (Sr)	mg/L	0.16	B421965	0.25	B421969	0.25	0.020	B421969
Total Strontium (Sr)	mg/L	0.15	B430534	0.25	B431321	0.27	0.020	B430534
Dissolved Sulphur (S)	mg/L	40	B421965	52	B421969	53	0.20	B421969
Total Sulphur (S)	mg/L	40	B430534	53	B431321	58	0.20	B430534
Dissolved Thallium (Tl)	mg/L	<0.00020	B422002	<0.00020	B422002	<0.00020	0.00020	B422002
Total Thallium (Tl)	mg/L	<0.00020	B430526	<0.00020	B431318	<0.00020	0.00020	B430526
Dissolved Tin (Sn)	mg/L	<0.0010	B422002	<0.0010	B422002	<0.0010	0.0010	B422002
Total Tin (Sn)	mg/L	<0.0010	B430526	<0.0010	B431318	<0.0010	0.0010	B430526
Dissolved Titanium (Ti)	mg/L	<0.0010	B422002	<0.0010	B422002	<0.0010	0.0010	B422002
Total Titanium (Ti)	mg/L	0.0020	B430526	0.0045	B431318	0.0053	0.0010	B430526
Dissolved Uranium (U)	mg/L	0.00050	B422002	0.022	B422002	0.028	0.00010	B422002
Total Uranium (U)	mg/L	0.00061	B430526	0.027	B431318	0.035	0.00010	B430526
Dissolved Vanadium (V)	mg/L	<0.0010	B422002	<0.0010	B422002	<0.0010	0.0010	B422002
Total Vanadium (V)	mg/L	<0.0010	B430526	<0.0010	B431318	<0.0010	0.0010	B430526
Dissolved Zinc (Zn)	mg/L	0.090	B422002	0.094	B422002	0.10	0.0030	B422002
Total Zinc (Zn)	mg/L	0.10	B430526	0.12	B431318	0.13	0.0030	B430526
RDL = Reportable Detection Limit								



BUREAU
VERITAS

Bureau Veritas Job #: C448044
Report Date: 2024/07/21

Arctic Canadian Diamond Company Ltd
Client Project #: 62829
Site Location: MDMER/SNP/SEEPAGE
Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQF002		
Sampling Date		2024/06/24 12:26		
COC Number		101603		
	UNITS	SEEP-2N2	RDL	QC Batch
Elements				
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	B422003
Total Aluminum (Al)	mg/L	<0.0030	0.0030	B430526
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B422003
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B430526
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	B422003
Total Arsenic (As)	mg/L	<0.00020	0.00020	B430526
Dissolved Barium (Ba)	mg/L	<0.010	0.010	B421969
Total Barium (Ba)	mg/L	<0.010	0.010	B430534
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B422003
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B430526
Dissolved Boron (B)	mg/L	<0.020	0.020	B421969
Total Boron (B)	mg/L	<0.020	0.020	B430534
Dissolved Cadmium (Cd)	mg/L	<0.000020	0.000020	B422003
Total Cadmium (Cd)	mg/L	<0.000020	0.000020	B430526
Dissolved Calcium (Ca)	mg/L	<0.30	0.30	B421969
Total Calcium (Ca)	mg/L	<0.30	0.30	B430534
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B422003
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B430526
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B422003
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B430526
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	B422003
Total Copper (Cu)	mg/L	<0.0010	0.0010	B430526
Dissolved Iron (Fe)	mg/L	<0.060	0.060	B421969
Total Iron (Fe)	mg/L	<0.060	0.060	B430534
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B422003
Total Lead (Pb)	mg/L	<0.00020	0.00020	B430526
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B421969
Total Lithium (Li)	mg/L	<0.020	0.020	B430534
Dissolved Magnesium (Mg)	mg/L	<0.20	0.20	B421969
Total Magnesium (Mg)	mg/L	<0.20	0.20	B430534
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0040	B421969
RDL = Reportable Detection Limit				



BUREAU
VERITAS

Bureau Veritas Job #: C448044
Report Date: 2024/07/21

Arctic Canadian Diamond Company Ltd
Client Project #: 62829
Site Location: MDMER/SNP/SEEPAGE
Your P.O. #: 6404002992

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		CQF002		
Sampling Date		2024/06/24 12:26		
COC Number		101603		
	UNITS	SEEP-2N2	RDL	QC Batch
Total Manganese (Mn)	mg/L	<0.0040	0.0040	B430534
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B422003
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B430526
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B422003
Total Nickel (Ni)	mg/L	<0.00050	0.00050	B430526
Dissolved Potassium (K)	mg/L	<0.30	0.30	B421969
Total Potassium (K)	mg/L	<0.30	0.30	B430534
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B422003
Total Selenium (Se)	mg/L	<0.00020	0.00020	B430526
Dissolved Silicon (Si)	mg/L	<0.50	0.50	B421969
Total Silicon (Si)	mg/L	<0.50	0.50	B430534
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B422003
Total Silver (Ag)	mg/L	<0.00010	0.00010	B430526
Dissolved Sodium (Na)	mg/L	<0.50	0.50	B421969
Total Sodium (Na)	mg/L	<0.50	0.50	B430534
Dissolved Strontium (Sr)	mg/L	<0.020	0.020	B421969
Total Strontium (Sr)	mg/L	<0.020	0.020	B430534
Dissolved Sulphur (S)	mg/L	<0.20	0.20	B421969
Total Sulphur (S)	mg/L	<0.20	0.20	B430534
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B422003
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B430526
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B422003
Total Tin (Sn)	mg/L	<0.0010	0.0010	B430526
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B422003
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B430526
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B422003
Total Uranium (U)	mg/L	<0.00010	0.00010	B430526
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B422003
Total Vanadium (V)	mg/L	<0.0010	0.0010	B430526
Dissolved Zinc (Zn)	mg/L	<0.0030	0.0030	B422003
Total Zinc (Zn)	mg/L	<0.0030	0.0030	B430526
RDL = Reportable Detection Limit				



GENERAL COMMENTS

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

Package 1	6.5°C
Package 2	5.9°C
Package 3	5.5°C
Package 4	5.4°C
Package 5	7.2°C
Package 6	5.0°C
Package 7	4.2°C
Package 8	5.2°C
Package 9	3.3°C
Package 10	3.0°C
Package 11	3.5°C
Package 12	4.8°C
Package 13	4.8°C
Package 14	5.8°C
Package 15	4.4°C
Package 16	5.3°C
Package 17	2.6°C
Package 18	2.8°C
Package 19	2.2°C
Package 20	4.2°C
Package 21	3.8°C
Package 22	3.8°C
Package 23	1.6°C
Package 24	0.3°C
Package 25	2.2°C

Sample CQE999 [SEEP-080A] : Turbidity completed within five days of sampling. Data is satisfactory for compliance purposes. Nitrogen (Nitrite - Nitrate) Low Level completed within five days of sampling. Data is satisfactory for compliance purposes. Sample was analyzed past method specified hold time for Alkalinity - Low Level. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CQF000 [SEEP-081A] : Turbidity completed within five days of sampling. Data is satisfactory for compliance purposes. Nitrogen (Nitrite - Nitrate) Low Level completed within five days of sampling. Data is satisfactory for compliance purposes. Sample was analyzed past method specified hold time for Alkalinity - Low Level. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level.

Sample CQF001 [SEEP-081] : Turbidity completed within five days of sampling. Data is satisfactory for compliance purposes. Nitrogen (Nitrite - Nitrate) Low Level completed within five days of sampling. Data is satisfactory for compliance purposes. Sample was analyzed past method specified hold time for Alkalinity - Low Level. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrogen (Nitrite - Nitrate) Low Level.

Sample CQF002 [SEEP-2N2] : Turbidity completed within five days of sampling. Data is satisfactory for compliance purposes. Nitrogen (Nitrite - Nitrate) Low Level completed within five days of sampling. Data is satisfactory for compliance purposes. Sample was analyzed past method specified hold time for Alkalinity - Low Level. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C448044
Report Date: 2024/07/21

Arctic Canadian Diamond Company Ltd
Client Project #: 62829
Site Location: MDMER/SNP/SEEPAGE
Your P.O. #: 6404002992

BUREAU
VERITAS

Bureau Veritas Job #: C448044

Report Date: 2024/07/21

QUALITY ASSURANCE REPORT

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B420401	Orthophosphate (P)	2024/06/28	94	80 - 120	109	80 - 120	<0.0010	mg/L	6.1	20		
B420531	Turbidity - NTU	2024/06/28			99	80 - 120	<0.10	NTU	7.4	20		
B420701	Total Nitrogen (N)	2024/07/02	106	80 - 120	112	80 - 120	<0.020	mg/L	0.20	20	108	80 - 120
B420703	Nitrate (N)	2024/06/28	105	80 - 120	103	80 - 120	<0.0020	mg/L	0.10	20		
B420703	Nitrite (N)	2024/06/28	102	80 - 120	100	80 - 120	<0.0010	mg/L	0.34	20		
B420885	Chloride (Cl)	2024/06/28	NC	80 - 120	105	80 - 120	<0.50	mg/L	0.40	20		
B421336	Acidity (pH 4.5)	2024/06/28					<1.0	mg/L	NC	20		
B421336	Acidity (pH 8.3)	2024/06/28			100	80 - 120	<1.0	mg/L	NC	20		
B421388	Dissolved-Low Level Sulphate (SO4)	2024/06/28	102	80 - 120	101	80 - 120	<0.050	mg/L	0.88	20		
B421448	Nitrate (N)	2024/06/28	NC	80 - 120	103	80 - 120	<0.0020	mg/L	0.0033	20		
B421448	Nitrite (N)	2024/06/28	100	80 - 120	98	80 - 120	<0.0010	mg/L	0.10	20		
B421646	Orthophosphate (P)	2024/06/28	96	80 - 120	109	80 - 120	0.0011, RDL=0.0010 (1)	mg/L	16	20		
B421888	Total Suspended Solids	2024/07/02	84	80 - 120	93	80 - 120	<0.99	mg/L	12	20		
B421965	Dissolved Barium (Ba)	2024/06/29	109	80 - 120	108	80 - 120	<0.010	mg/L	12	20		
B421965	Dissolved Boron (B)	2024/06/29	109	80 - 120	107	80 - 120	<0.020	mg/L	NC	20		
B421965	Dissolved Calcium (Ca)	2024/06/29	105	80 - 120	102	80 - 120	<0.30	mg/L	1.1	20		
B421965	Dissolved Iron (Fe)	2024/06/29	100	80 - 120	120	80 - 120	<0.060	mg/L	4.4	20		
B421965	Dissolved Lithium (Li)	2024/06/29	101	80 - 120	100	80 - 120	<0.020	mg/L	NC	20		
B421965	Dissolved Magnesium (Mg)	2024/06/29	108	80 - 120	106	80 - 120	<0.20	mg/L	1.3	20		
B421965	Dissolved Manganese (Mn)	2024/06/29	98	80 - 120	101	80 - 120	<0.0040	mg/L	4.8	20		
B421965	Dissolved Potassium (K)	2024/06/29	106	80 - 120	105	80 - 120	<0.30	mg/L	3.0	20		
B421965	Dissolved Silicon (Si)	2024/06/29	101	80 - 120	102	80 - 120	<0.50	mg/L	NC	20		
B421965	Dissolved Sodium (Na)	2024/06/29	107	80 - 120	105	80 - 120	<0.50	mg/L	0.095	20		
B421965	Dissolved Strontium (Sr)	2024/06/29	111	80 - 120	108	80 - 120	<0.020	mg/L	0.30	20		
B421965	Dissolved Sulphur (S)	2024/06/29	113	80 - 120	105	80 - 120	<0.20	mg/L	0.058	20		
B421969	Dissolved Barium (Ba)	2024/06/29	95	80 - 120	99	80 - 120	<0.010	mg/L	3.6	20		
B421969	Dissolved Boron (B)	2024/06/29	98	80 - 120	98	80 - 120	<0.020	mg/L	NC	20		
B421969	Dissolved Calcium (Ca)	2024/06/29	92	80 - 120	97	80 - 120	<0.30	mg/L	0.67	20		
B421969	Dissolved Iron (Fe)	2024/06/29	101	80 - 120	102	80 - 120	<0.060	mg/L	0	20		
B421969	Dissolved Lithium (Li)	2024/06/29	87	80 - 120	93	80 - 120	<0.020	mg/L	6.5	20		

BUREAU
VERITAS

Bureau Veritas Job #: C448044

Report Date: 2024/07/21

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B421969	Dissolved Magnesium (Mg)	2024/06/29	91	80 - 120	97	80 - 120	<0.20	mg/L	0.49	20		
B421969	Dissolved Manganese (Mn)	2024/06/29	100	80 - 120	101	80 - 120	<0.0040	mg/L	0.68	20		
B421969	Dissolved Potassium (K)	2024/06/29	92	80 - 120	98	80 - 120	<0.30	mg/L	0.20	20		
B421969	Dissolved Silicon (Si)	2024/06/29	92	80 - 120	93	80 - 120	<0.50	mg/L	0.62	20		
B421969	Dissolved Sodium (Na)	2024/06/29	90	80 - 120	97	80 - 120	<0.50	mg/L	0.57	20		
B421969	Dissolved Strontium (Sr)	2024/06/29	91	80 - 120	96	80 - 120	<0.020	mg/L	0.0081	20		
B421969	Dissolved Sulphur (S)	2024/06/29	NC	80 - 120	96	80 - 120	<0.20	mg/L	0.18	20		
B421976	Total Phosphorus (P)	2024/07/02	101	80 - 120	95	80 - 120	<0.0010	mg/L	0.50	20	91	80 - 120
B421983	Dissolved Phosphorus (P)	2024/07/02	98	80 - 120	96	80 - 120	<0.0010	mg/L	9.2	20	92	80 - 120
B422002	Dissolved Aluminum (Al)	2024/06/29	100	80 - 120	110	80 - 120	<0.0030	mg/L				
B422002	Dissolved Antimony (Sb)	2024/06/29	101	80 - 120	101	80 - 120	<0.00060	mg/L				
B422002	Dissolved Arsenic (As)	2024/06/29	104	80 - 120	102	80 - 120	<0.00020	mg/L	8.6	20		
B422002	Dissolved Beryllium (Be)	2024/06/29	100	80 - 120	101	80 - 120	<0.0010	mg/L				
B422002	Dissolved Cadmium (Cd)	2024/06/29	100	80 - 120	98	80 - 120	<0.000020	mg/L				
B422002	Dissolved Chromium (Cr)	2024/06/29	100	80 - 120	101	80 - 120	<0.0010	mg/L	1.4	20		
B422002	Dissolved Cobalt (Co)	2024/06/29	97	80 - 120	101	80 - 120	<0.00030	mg/L				
B422002	Dissolved Copper (Cu)	2024/06/29	96	80 - 120	102	80 - 120	<0.0010	mg/L	3.4	20		
B422002	Dissolved Lead (Pb)	2024/06/29	95	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20		
B422002	Dissolved Molybdenum (Mo)	2024/06/29	106	80 - 120	102	80 - 120	<0.00020	mg/L				
B422002	Dissolved Nickel (Ni)	2024/06/29	99	80 - 120	101	80 - 120	<0.00050	mg/L				
B422002	Dissolved Selenium (Se)	2024/06/29	106	80 - 120	100	80 - 120	<0.00020	mg/L				
B422002	Dissolved Silver (Ag)	2024/06/29	98	80 - 120	100	80 - 120	<0.00010	mg/L				
B422002	Dissolved Thallium (Tl)	2024/06/29	97	80 - 120	99	80 - 120	<0.00020	mg/L				
B422002	Dissolved Tin (Sn)	2024/06/29	103	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
B422002	Dissolved Titanium (Ti)	2024/06/29	100	80 - 120	102	80 - 120	<0.0010	mg/L				
B422002	Dissolved Uranium (U)	2024/06/29	101	80 - 120	102	80 - 120	<0.00010	mg/L				
B422002	Dissolved Vanadium (V)	2024/06/29	103	80 - 120	103	80 - 120	<0.0010	mg/L				
B422002	Dissolved Zinc (Zn)	2024/06/29	NC	80 - 120	108	80 - 120	<0.0030	mg/L	1.5	20		
B422003	Dissolved Aluminum (Al)	2024/06/29	100	80 - 120	102	80 - 120	<0.0030	mg/L	NC	20		
B422003	Dissolved Antimony (Sb)	2024/06/29	100	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20		
B422003	Dissolved Arsenic (As)	2024/06/29	103	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20		
B422003	Dissolved Beryllium (Be)	2024/06/29	102	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		

BUREAU
VERITAS

Bureau Veritas Job #: C448044

Report Date: 2024/07/21

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B422003	Dissolved Cadmium (Cd)	2024/06/29	98	80 - 120	100	80 - 120	<0.000020	mg/L	NC	20		
B422003	Dissolved Chromium (Cr)	2024/06/29	102	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
B422003	Dissolved Cobalt (Co)	2024/06/29	102	80 - 120	101	80 - 120	<0.00030	mg/L	NC	20		
B422003	Dissolved Copper (Cu)	2024/06/29	103	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
B422003	Dissolved Lead (Pb)	2024/06/29	101	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20		
B422003	Dissolved Molybdenum (Mo)	2024/06/29	99	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20		
B422003	Dissolved Nickel (Ni)	2024/06/29	101	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20		
B422003	Dissolved Selenium (Se)	2024/06/29	104	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20		
B422003	Dissolved Silver (Ag)	2024/06/29	98	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20		
B422003	Dissolved Thallium (Tl)	2024/06/29	102	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20		
B422003	Dissolved Tin (Sn)	2024/06/29	98	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B422003	Dissolved Titanium (Ti)	2024/06/29	102	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
B422003	Dissolved Uranium (U)	2024/06/29	102	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20		
B422003	Dissolved Vanadium (V)	2024/06/29	103	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
B422003	Dissolved Zinc (Zn)	2024/06/29	103	80 - 120	101	80 - 120	<0.0030	mg/L	NC	20		
B422463	Total Phosphorus (P)	2024/07/03	107	80 - 120	88	80 - 120	<0.0010	mg/L	NC	20	88	80 - 120
B423085	Total Ammonia (N)	2024/07/02	NC	80 - 120	103	80 - 120	<0.0050	mg/L	0.99	20		
B423088	Total Ammonia (N)	2024/07/02	NC	80 - 120	101	80 - 120	<0.0050	mg/L	0.33	20		
B423453	Chloride (Cl)	2024/07/02	98	80 - 120	100	80 - 120	<0.50	mg/L				
B424650	Total Mercury (Hg)	2024/07/05	90	80 - 120	101	80 - 120	<0.0000019	mg/L	NC	20		
B424655	Total Mercury (Hg)	2024/07/05	92	80 - 120	103	80 - 120	<0.0000019	mg/L	NC	20		
B424721	Dissolved Mercury (Hg)	2024/07/03	100	80 - 120	104	80 - 120	<0.0000019	mg/L	7.7	20		
B430043	Dissolved-Low Level Sulphate (SO4)	2024/07/08	NC	80 - 120	99	80 - 120	<0.050	mg/L	0.0012	20		
B430526	Total Aluminum (Al)	2024/07/09	115	80 - 120	98	80 - 120	<0.0030	mg/L	1.3	20		
B430526	Total Antimony (Sb)	2024/07/09	103	80 - 120	97	80 - 120	<0.00060	mg/L	NC	20		
B430526	Total Arsenic (As)	2024/07/09	106	80 - 120	97	80 - 120	<0.00020	mg/L	1.4	20		
B430526	Total Beryllium (Be)	2024/07/09	104	80 - 120	94	80 - 120	<0.0010	mg/L	8.7	20		
B430526	Total Cadmium (Cd)	2024/07/09	100	80 - 120	91	80 - 120	<0.000020	mg/L				
B430526	Total Chromium (Cr)	2024/07/09	106	80 - 120	97	80 - 120	<0.0010	mg/L	1.6	20		
B430526	Total Cobalt (Co)	2024/07/09	105	80 - 120	98	80 - 120	<0.00030	mg/L	0.30	20		
B430526	Total Copper (Cu)	2024/07/09	104	80 - 120	97	80 - 120	<0.0010	mg/L	2.5	20		
B430526	Total Lead (Pb)	2024/07/09	96	80 - 120	93	80 - 120	<0.00020	mg/L	0.97	20		

BUREAU
VERITAS

Bureau Veritas Job #: C448044

Report Date: 2024/07/21

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B430526	Total Molybdenum (Mo)	2024/07/09	105	80 - 120	94	80 - 120	<0.00020	mg/L	7.0	20		
B430526	Total Nickel (Ni)	2024/07/09	104	80 - 120	97	80 - 120	<0.00050	mg/L	1.2	20		
B430526	Total Selenium (Se)	2024/07/09	101	80 - 120	94	80 - 120	<0.00020	mg/L	4.6	20		
B430526	Total Silver (Ag)	2024/07/09	99	80 - 120	92	80 - 120	<0.00010	mg/L	4.0	20		
B430526	Total Thallium (Tl)	2024/07/09	100	80 - 120	92	80 - 120	<0.00020	mg/L	NC	20		
B430526	Total Tin (Sn)	2024/07/09	101	80 - 120	92	80 - 120	<0.0010	mg/L	0.92	20		
B430526	Total Titanium (Ti)	2024/07/09	104	80 - 120	95	80 - 120	<0.0010	mg/L	3.0	20		
B430526	Total Uranium (U)	2024/07/09	103	80 - 120	95	80 - 120	<0.00010	mg/L	2.3	20		
B430526	Total Vanadium (V)	2024/07/09	108	80 - 120	97	80 - 120	<0.0010	mg/L	0.059	20		
B430526	Total Zinc (Zn)	2024/07/09	103	80 - 120	96	80 - 120	<0.0030	mg/L	14	20		
B430534	Total Barium (Ba)	2024/07/09	95	80 - 120	101	80 - 120	<0.010	mg/L	4.1	20		
B430534	Total Boron (B)	2024/07/09	96	80 - 120	100	80 - 120	<0.020	mg/L	2.0	20		
B430534	Total Calcium (Ca)	2024/07/09	95	80 - 120	98	80 - 120	<0.30	mg/L	1.7	20		
B430534	Total Iron (Fe)	2024/07/09	NC	80 - 120	100	80 - 120	<0.060	mg/L	2.4	20		
B430534	Total Lithium (Li)	2024/07/09	97	80 - 120	100	80 - 120	<0.020	mg/L	2.9	20		
B430534	Total Magnesium (Mg)	2024/07/09	95	80 - 120	97	80 - 120	<0.20	mg/L	0.34	20		
B430534	Total Manganese (Mn)	2024/07/09	99	80 - 120	102	80 - 120	<0.0040	mg/L	1.5	20		
B430534	Total Potassium (K)	2024/07/09	98	80 - 120	102	80 - 120	<0.30	mg/L	0.013	20		
B430534	Total Silicon (Si)	2024/07/09	102	80 - 120	97	80 - 120	<0.50	mg/L	3.1	20		
B430534	Total Sodium (Na)	2024/07/09	94	80 - 120	97	80 - 120	<0.50	mg/L	1.6	20		
B430534	Total Strontium (Sr)	2024/07/09	92	80 - 120	99	80 - 120	<0.020	mg/L	0.68	20		
B430534	Total Sulphur (S)	2024/07/09	98	80 - 120	95	80 - 120	<0.20	mg/L	0.74	20		
B431318	Total Aluminum (Al)	2024/07/09	103	80 - 120	98	80 - 120	<0.0030	mg/L	5.5	20		
B431318	Total Antimony (Sb)	2024/07/09	105	80 - 120	96	80 - 120	<0.00060	mg/L	NC	20		
B431318	Total Arsenic (As)	2024/07/09	104	80 - 120	97	80 - 120	<0.00020	mg/L	15	20		
B431318	Total Beryllium (Be)	2024/07/09	102	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B431318	Total Cadmium (Cd)	2024/07/09	98	80 - 120	93	80 - 120	<0.000020	mg/L				
B431318	Total Chromium (Cr)	2024/07/09	103	80 - 120	96	80 - 120	<0.0010	mg/L	15	20		
B431318	Total Cobalt (Co)	2024/07/09	102	80 - 120	97	80 - 120	<0.00030	mg/L	9.4	20		
B431318	Total Copper (Cu)	2024/07/09	97	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B431318	Total Lead (Pb)	2024/07/09	94	80 - 120	92	80 - 120	<0.00020	mg/L	NC	20		
B431318	Total Molybdenum (Mo)	2024/07/09	109	80 - 120	95	80 - 120	<0.00020	mg/L	3.5	20		

BUREAU
VERITAS

Bureau Veritas Job #: C448044

Report Date: 2024/07/21

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B431318	Total Nickel (Ni)	2024/07/09	98	80 - 120	96	80 - 120	<0.00050	mg/L	16	20		
B431318	Total Selenium (Se)	2024/07/09	101	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20		
B431318	Total Silver (Ag)	2024/07/09	96	80 - 120	94	80 - 120	<0.00010	mg/L	NC	20		
B431318	Total Thallium (Tl)	2024/07/09	93	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20		
B431318	Total Tin (Sn)	2024/07/09	104	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20		
B431318	Total Titanium (Ti)	2024/07/09	107	80 - 120	95	80 - 120	<0.0010	mg/L	2.8	20		
B431318	Total Uranium (U)	2024/07/09	104	80 - 120	94	80 - 120	<0.00010	mg/L	12	20		
B431318	Total Vanadium (V)	2024/07/09	108	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
B431318	Total Zinc (Zn)	2024/07/09	98	80 - 120	95	80 - 120	<0.0030	mg/L	NC	20		
B431321	Total Barium (Ba)	2024/07/09	98	80 - 120	95	80 - 120	<0.010	mg/L	0.37	20		
B431321	Total Boron (B)	2024/07/09	96	80 - 120	95	80 - 120	<0.020	mg/L	1.2	20		
B431321	Total Calcium (Ca)	2024/07/09	103	80 - 120	100	80 - 120	<0.30	mg/L	5.6	20		
B431321	Total Iron (Fe)	2024/07/09	102	80 - 120	98	80 - 120	<0.060	mg/L	8.8	20		
B431321	Total Lithium (Li)	2024/07/09	105	80 - 120	104	80 - 120	<0.020	mg/L	7.5	20		
B431321	Total Magnesium (Mg)	2024/07/09	99	80 - 120	97	80 - 120	<0.20	mg/L	1.1	20		
B431321	Total Manganese (Mn)	2024/07/09	99	80 - 120	98	80 - 120	<0.0040	mg/L	8.7	20		
B431321	Total Potassium (K)	2024/07/09	104	80 - 120	102	80 - 120	<0.30	mg/L	5.7	20		
B431321	Total Silicon (Si)	2024/07/09	96	80 - 120	93	80 - 120	<0.50	mg/L	1.1	20		
B431321	Total Sodium (Na)	2024/07/09	101	80 - 120	100	80 - 120	<0.50	mg/L	5.6	20		
B431321	Total Strontium (Sr)	2024/07/09	95	80 - 120	93	80 - 120	<0.020	mg/L	1.1	20		
B431321	Total Sulphur (S)	2024/07/09	93	80 - 120	92	80 - 120	<0.20	mg/L	1.4	20		
B431379	Alkalinity (PP as CaCO3)	2024/07/09					<0.50	mg/L	NC	20		
B431379	Alkalinity (Total as CaCO3)	2024/07/09			100	80 - 120	<0.50	mg/L	5.0	20		
B431379	Bicarbonate (HCO3)	2024/07/09					<0.50	mg/L	5.0	20		
B431379	Carbonate (CO3)	2024/07/09					<0.50	mg/L	NC	20		
B431379	Hydroxide (OH)	2024/07/09					<0.50	mg/L	NC	20		
B431381	pH	2024/07/09			101	97 - 103			1.0	N/A		
B431382	Conductivity	2024/07/09			101	90 - 110	<1.0	uS/cm	2.6	20		
B431384	Fluoride (F)	2024/07/09	95	80 - 120	93	80 - 120	<0.010	mg/L	3.2	20		
B435064	Total Organic Carbon (C)	2024/07/12	NC	80 - 120	102	80 - 120	<0.20	mg/L	0.60	20		



BUREAU
VERITAS

Bureau Veritas Job #: C448044

Report Date: 2024/07/21

QUALITY ASSURANCE REPORT(CONT'D)

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

Your P.O. #: 6404002992

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
B445868	Radium 226	2024/07/19			88	85 - 115	<0.010	Bq/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 $\leq 2 \times \text{RDL}$).

(1) Method blank exceeds acceptance limits, $2 \times \text{RDL}$ acceptable for low level analysis



BUREAU
VERITAS

Bureau Veritas Job #: C448044

Report Date: 2024/07/21

Arctic Canadian Diamond Company Ltd

Client Project #: 62829

Site Location: MDMER/SNP/SEEPAGE

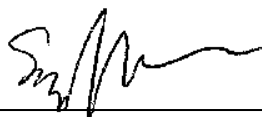
Your P.O. #: 6404002992

VALIDATION SIGNATURE PAGE

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



Danish Samad, Laboratory Supervisor



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

Bureau Veritas 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 Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Alberta Environmental laboratory operations.

INTEGRITY
VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #		COOLER OBSERVATIONS:				BV JOB#:			
Page _____ of _____		CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
Page _____ of _____		PRESENT		☒	TEMP 6.3 6.4 6.8	PRESENT		☒	TEMP 3.6 3.6 3.2
Page _____ of _____		INTACT	☒			INTACT	☒		
Page _____ of _____		ICE PRESENT	☒			ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
Page _____ of _____		PRESENT		☒	TEMP 5.6 5.8 6.3	PRESENT		☒	TEMP 4.8 4.8 4.8
Page _____ of _____		INTACT	☒			INTACT	☒		
Page _____ of _____		ICE PRESENT	☒			ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
Page _____ of _____		PRESENT		☒	TEMP 5.3 5.4 5.9	PRESENT		☒	TEMP 4.8 4.8 4.8
Page _____ of _____		INTACT	☒			INTACT	☒		
Page _____ of _____		ICE PRESENT	☒			ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
Page _____ of _____		PRESENT		☒	TEMP 5.1 5.3 5.8	PRESENT		☒	TEMP 6.3 6.3 5.8
Page _____ of _____		INTACT	☒			INTACT	☒		
Page _____ of _____		ICE PRESENT	☒			ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
Page _____ of _____		PRESENT		☒	TEMP 8.0 6.7 6.9	PRESENT		☒	TEMP 4.6 4.4 4.1
Page _____ of _____		INTACT	☒			INTACT	☒		
Page _____ of _____		ICE PRESENT	☒			ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
Page _____ of _____		PRESENT		☒	TEMP 4.6 4.1 6.3	PRESENT		☒	TEMP 6.3 5.5 4.2
Page _____ of _____		INTACT	☒			INTACT	☒		
Page _____ of _____		ICE PRESENT	☒			ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
Page _____ of _____		PRESENT		☒	TEMP 4.8 4.3 3.4	PRESENT		☒	TEMP 3.3 2.6 1.9
Page _____ of _____		INTACT	☒			INTACT	☒		
Page _____ of _____		ICE PRESENT	☒			ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
Page _____ of _____		PRESENT		☒	TEMP 5.3 5.4 4.9	PRESENT		☒	TEMP 3.6 3.0 1.8
Page _____ of _____		INTACT	☒			INTACT	☒		
Page _____ of _____		ICE PRESENT	☒			ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
Page _____ of _____		PRESENT		☒	TEMP 4.2 4.1 1.7	PRESENT		☒	TEMP 2.2 2.2 2.2
Page _____ of _____		INTACT	☒			INTACT	☒		
Page _____ of _____		ICE PRESENT	☒			ICE PRESENT	☒		
Page _____ of _____		CUSTODY SEAL	YES	NO	COOLER ID	CUSTODY SEAL	YES	NO	COOLER ID
Page _____ of _____		PRESENT		☒	TEMP 2.7 2.9 3.5	PRESENT		☒	TEMP 4.3 4.3 4.1
Page _____ of _____		INTACT	☒			INTACT	☒		
Page _____ of _____		ICE PRESENT	☒			ICE PRESENT	☒		

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Alta Mayone Vautre

DATE (YYYY/MM/DD)

2024/06/27

TIME (HH:MM)

1500

CHAIN OF CUSTODY

[illegible]

COOLER OBSERVATIONS:

COOLER OBSERVATIONS:						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT		☒				
INTACT		☒	TEMP	3.8	3.8	3.8
ICE PRESENT	☒			1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	3.8	3.8	3.8
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	☒					
INTACT		☒	TEMP	1.8	1.9	1.3
ICE PRESENT	☒			1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT		☒				
INTACT		☒	TEMP	0.4	0.3	0.3
ICE PRESENT	☒			1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT		☒	TEMP	1.9	2.3	2.3
ICE PRESENT	☒			1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP			
ICE PRESENT				1	2	3

BV JOB#:

BV JOB#:						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL	YES	NO	COOLER ID			
PRESSENT						
INTACT			TEMP			
ICE PRESENT				1	2	3

RECEIVED BY (SIGN & PRINT)

Dr. Margherita Lupat

DATE (YYYY/MM/DD)

2024/06/27

TIME (HH:MM)

1500

SO# 62829

**BUREAU
VERITAS**

Burgundy Contact: Richard Ehlert / Jonah Kelly



BURGUNDY
DIAMOND MINES

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

[illegible]

Send Analytical Results to: compliance.team@burgundydiamonds.com

KE: yes