

City of Revelstoke 2022 Water Sampling and Testing Results



Bacteriological Testing Results

January and July



CERTIFICATE OF ANALYSIS

REPORTED TO Revelstoke, City of
1200 East Victoria Road, Box 170
Revelstoke, BC V0E 2S0

ATTENTION Doug Pendergast

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 22A0383

RECEIVED / TEMP 2022-01-06 08:00 / 3.6°C
REPORTED 2022-01-10 10:06
COC NUMBER B05339

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

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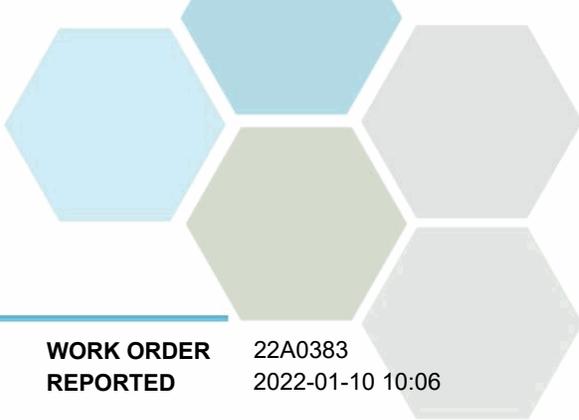
If you have any questions or concerns, please contact me at teamcaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

1-888-311-8846 | www.caro.ca

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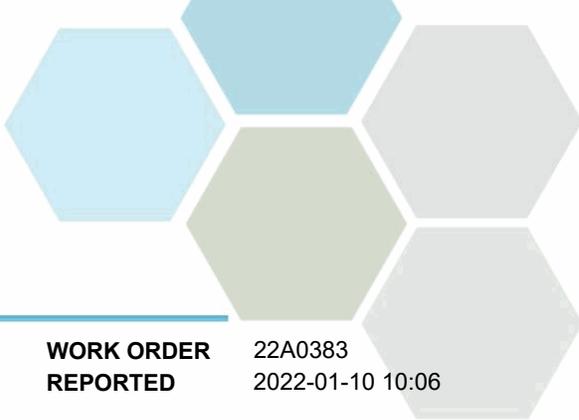


TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22A0383
2022-01-10 10:06

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
RMR Booster (22A0383-01) Matrix: Water Sampled: 2022-01-05 12:16						
<i>Microbiological Parameters</i>						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-06	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-06	
Jacobson Ford (22A0383-02) Matrix: Water Sampled: 2022-01-05 13:00						
<i>Microbiological Parameters</i>						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-06	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-06	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22A0383
2022-01-10 10:06

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

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CERTIFICATE OF ANALYSIS

REPORTED TO Revelstoke, City of
1200 East Victoria Road, Box 170
Revelstoke, BC V0E 2S0

ATTENTION Doug Pendergast

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 22A0936

RECEIVED / TEMP 2022-01-11 15:30 / 5.5°C
REPORTED 2022-01-13 13:49
COC NUMBER B50339

Introduction:

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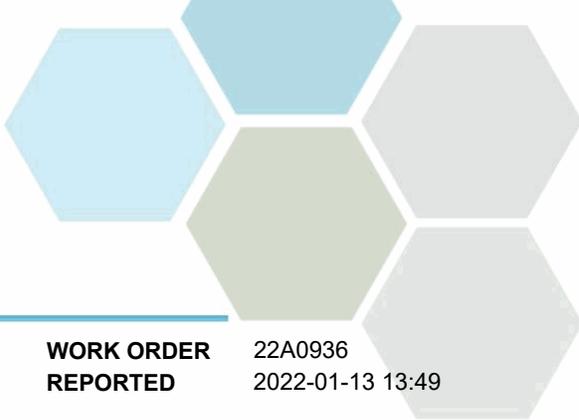
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Authorized By:

Team CARO
Client Service Representative

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TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22A0936
2022-01-13 13:49

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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City Works Yard (22A0936-01) | Matrix: Water | Sampled: 2022-01-10 12:20

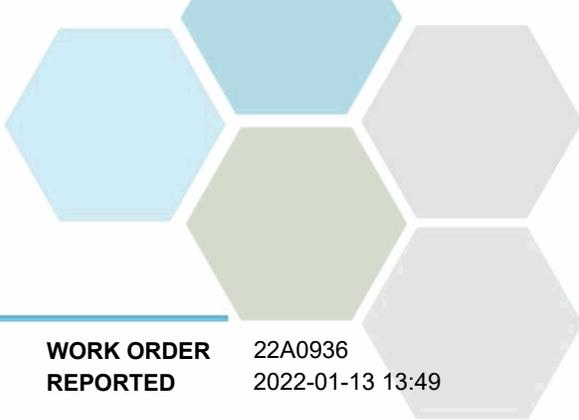
Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-11	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-11	

Chevron (22A0936-02) | Matrix: Water | Sampled: 2022-01-10 12:50

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-11	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-11	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22A0936
2022-01-13 13:49

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

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CERTIFICATE OF ANALYSIS

REPORTED TO Revelstoke, City of
1200 East Victoria Road, Box 170
Revelstoke, BC V0E 2S0

ATTENTION Doug Pendergast

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 22A1850

RECEIVED / TEMP 2022-01-18 14:50 / 7.6°C
REPORTED 2022-01-20 11:06
COC NUMBER B50339

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

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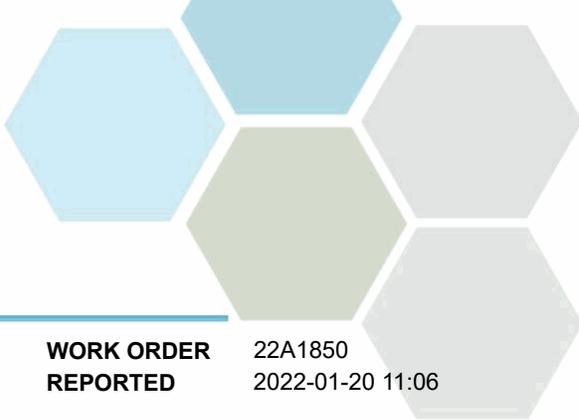
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Authorized By:

Team CARO
Client Service Representative

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TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22A1850
2022-01-20 11:06

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Queen Victoria Hospital (22A1850-01) | Matrix: Water | Sampled: 2022-01-17 12:10

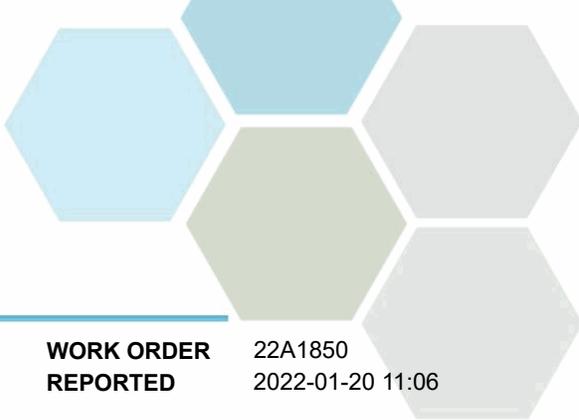
Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-18	

Lagoon (22A1850-02) | Matrix: Water | Sampled: 2022-01-17 11:40

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-18	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22A1850
2022-01-20 11:06

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

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REPORTED TO Revelstoke, City of
1200 East Victoria Road, Box 170
Revelstoke, BC V0E 2S0

ATTENTION Doug Pendergast

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 22A2828

RECEIVED / TEMP 2022-01-25 08:30 / 8.4°C
REPORTED 2022-01-27 10:33
COC NUMBER B76989

Introduction:

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TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22A2828
2022-01-27 10:33

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
NAPA (22A2828-01) Matrix: Water Sampled: 2022-01-24 12:45						
<i>Microbiological Parameters</i>						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-25	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-25	
Rec Center (22A2828-02) Matrix: Water Sampled: 2022-01-24 13:15						
<i>Microbiological Parameters</i>						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-01-25	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-01-25	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22A2828
2022-01-27 10:33

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

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CERTIFICATE OF ANALYSIS

REPORTED TO Revelstoke, City of
1200 East Victoria Road, Box 170
Revelstoke, BC V0E 2S0

ATTENTION Doug Pendergast

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 22G0175

RECEIVED / TEMP 2022-07-05 08:30 / 13.3°C
REPORTED 2022-07-11 11:01
COC NUMBER B43233

Introduction:

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TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22G0175
2022-07-11 11:01

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
RMR Booster (22G0175-01) Matrix: Water Sampled: 2022-07-04 10:15						
<i>Microbiological Parameters</i>						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	
Jacobson Ford (22G0175-02) Matrix: Water Sampled: 2022-07-04 10:40						
<i>Microbiological Parameters</i>						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22G0175
2022-07-11 11:01

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

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LOGIN NOTICE CONFIRMATION (Work Order 22G0175)

THIS IS NOT A REPORT

Need help reading your Login Notice? Check out this handy article:

<https://www.caro.ca/quick-guide-to-your-login-notice-how-to-review-your-sample-submission/>

CLIENT	Revelstoke, City of	QUOTATION ID	Revelstoke Master Bid
PO NUMBER		SUBMITTED BY	
PROJECT	Drinking Water	COC NO.	B43233
PROJECT INFO	[none]		

Receipt Details:

RECEIVED	2022-07-05 08:30	SAMPLES LOGGED IN	2
LOCATION	Kelowna Lab	LOGGED IN	2022-07-05 09:11
		ACCOUNT MGR	Team CARO

Sample Condition Summary:

Quantity of Transport Vessels Received: 1

Receipt Temperature = 13.3°C

Broken Container(s)	No	Sampling Date(s) Missing	No	Incorrect Cont./Pres.	No	Custody Seals Intact
Cooling Initiated	Yes	Sample(s) Frozen	No	Missing/Extra Samples	No	

Note: Sample transport temperatures of less than 8°C for microbiological parameters and less than or equal to 10°C for environmental parameters is recommended. Samples that exceed these values will still be processed. However, please note that the analytical results may be affected, especially for samples collected prior to the day of receipt.

REPORT TO	Doug Pendergast Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0 Tel: (250) 837-2001	INCLUDE QC	No
		INCLUDE COC	No
		EXTRAS	Guidelines

INVOICE TO	Doug Pendergast Revelstoke, City of 1200 East Victoria Road, Box 170 Revelstoke, BC V0E 2S0 Tel: (250) 837-2001	FREQUENCY	Monthly
		GST EXEMPT	No
		PAYMENT TERMS	Upon Receipt
		MIN AMOUNT	N/A

Delivery Plan:

REPORT DUE 2022-07-14 17:00 (5-7 day TAT)

Contact Name	Email / Fax / Cellular	Login Notice	Report	Invoice	EDD	EDD Format	CC to	Fax	Text	Mail
Doug Pendergast	dpendergast@cityofrevelstoke.con	✓								
Doug Pendergast	dpendergast@cityofrevelstoke.con		✓		✓	SIMPLE EXCEL	diana.tesic-nagalingam@interiorhealth.ca			
Doug Pendergast	dpendergast@cityofrevelstoke.con			✓			accounts.payable@revelstoke.ca			

Analysis Schedule:

Analysis / Version	Due	Expires ¹	Status	Comments
--------------------	-----	----------------------	--------	----------

RMR Booster (22G0175-01) | Matrix: Water | Sampled: 2022-07-04 10:15 |

Container(s) Submitted:

A = C07_300 mL Plastic (Micro-S)

Coliforms, Total & E. coli (MF-CCA) Pkg 2022-07-14 2022-07-05 Available



CERTIFICATE OF ANALYSIS

REPORTED TO Revelstoke, City of
1200 East Victoria Road, Box 170
Revelstoke, BC V0E 2S0

ATTENTION Doug Pendergast

PO NUMBER
PROJECT Drinking Water
PROJECT INFO

WORK ORDER 22G0178

RECEIVED / TEMP 2022-07-05 08:30 / 13.3°C
REPORTED 2022-07-11 11:01
COC NUMBER B43233

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

If you have any questions or concerns, please contact me at TeamCaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 | #108 4475 Wayburne Drive Burnaby, BC V5G 4X4

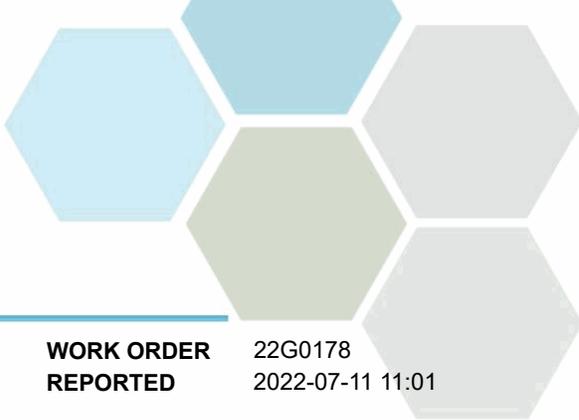


TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22G0178
2022-07-11 11:01

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Boltens (22G0178-01) Matrix: Water Sampled: 2022-07-04						
<i>Microbiological Parameters</i>						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-07-05	



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
Drinking Water

WORK ORDER REPORTED 22G0178
2022-07-11 11:01

Analysis Description	Method Ref.	Technique	Accredited	Location
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: TeamCaro@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.

City of Revelstoke 2022 Water Sampling and Testing Results



Full Spectrum Testing Results



CERTIFICATE OF ANALYSIS

REPORTED TO Revelstoke, City of
1200 East Victoria Road, Box 170
Revelstoke, BC V0E 2S0

ATTENTION Doug Pendergast

PO NUMBER
PROJECT General Potability
PROJECT INFO

WORK ORDER 22H2677

RECEIVED / TEMP 2022-08-18 07:50 / 17.9°C
REPORTED 2022-08-24 16:17
COC NUMBER B43233

Introduction:

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Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

By engaging our services, you are agreeing to CARO Analytical Service's Standard Terms and Conditions outlined here: <https://www.caro.ca/terms-conditions>

If you have any questions or concerns, please contact me at TeamCaro@caro.ca

Authorized By:

Team CARO
Client Service Representative

1-888-311-8846 | www.caro.ca

#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 | #108 4475 Wayburne Drive Burnaby, BC V5G 4X4



TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
General Potability

WORK ORDER REPORTED 22H2677
2022-08-24 16:17

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
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Greeley Creek (22H2677-01) | Matrix: Water | Sampled: 2022-08-17 09:15

Anions

Chloride	< 0.10	AO ≤ 250	0.10 mg/L	2022-08-19	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2022-08-19	
Nitrate (as N)	0.025	MAC = 10	0.010 mg/L	2022-08-19	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2022-08-19	
Sulfate	12.1	AO ≤ 500	1.0 mg/L	2022-08-19	

Calculated Parameters

Hardness, Total (as CaCO3)	41.0	None Required	0.500 mg/L	N/A	
Solids, Total Dissolved	56.6	AO ≤ 500	1.00 mg/L	N/A	

General Parameters

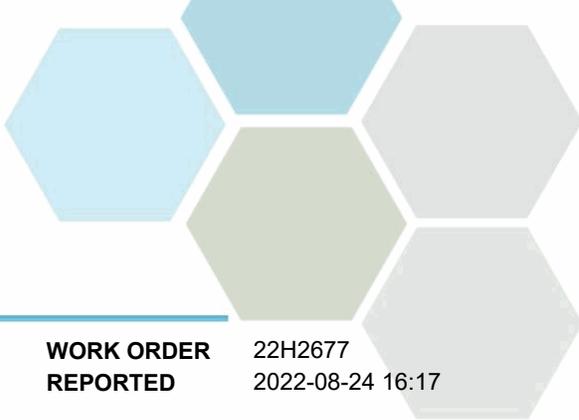
Alkalinity, Total (as CaCO3)	44.5	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Bicarbonate (as CaCO3)	44.5	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0 mg/L	2022-08-19	
Conductivity (EC)	94.8	N/A	2.0 µS/cm	2022-08-19	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2022-08-18	
pH	6.84	7.0-10.5	0.10 pH units	2022-08-19	HT2
Turbidity	0.23	OG < 1	0.10 NTU	2022-08-19	

Microbiological Parameters

Coliforms, Total	≥ 110	MAC = 0	1 CFU/100 mL	2022-08-18	
Background Colonies	>200	N/A	200 CFU/100 mL	2022-08-18	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2022-08-18	

Total Metals

Aluminum, total	0.0168	OG < 0.1	0.0050 mg/L	2022-08-23	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2022-08-23	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2022-08-23	
Barium, total	0.0096	MAC = 2	0.0050 mg/L	2022-08-23	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2022-08-23	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010 mg/L	2022-08-23	
Calcium, total	13.6	None Required	0.20 mg/L	2022-08-23	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2022-08-23	
Copper, total	< 0.00040	MAC = 2	0.00040 mg/L	2022-08-23	
Iron, total	0.013	AO ≤ 0.3	0.010 mg/L	2022-08-23	
Lead, total	< 0.00020	MAC = 0.005	0.00020 mg/L	2022-08-23	
Magnesium, total	1.70	None Required	0.010 mg/L	2022-08-23	
Manganese, total	0.00118	MAC = 0.12	0.00020 mg/L	2022-08-23	
Potassium, total	1.08	N/A	0.10 mg/L	2022-08-23	
Selenium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2022-08-23	
Sodium, total	0.87	AO ≤ 200	0.10 mg/L	2022-08-23	
Strontium, total	0.0432	MAC = 7	0.0010 mg/L	2022-08-23	



TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
General Potability

WORK ORDER REPORTED 22H2677
2022-08-24 16:17

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Greeley Creek (22H2677-01) | Matrix: Water | Sampled: 2022-08-17 09:15, Continued

Total Metals, Continued

Uranium, total	0.000215	MAC = 0.02	0.000020	mg/L	2022-08-23	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2022-08-23	

Golf Course Well (22H2677-02) | Matrix: Water | Sampled: 2022-08-17 09:35

Anions

Chloride	6.33	AO ≤ 250	0.10	mg/L	2022-08-19	
Fluoride	0.68	MAC = 1.5	0.10	mg/L	2022-08-19	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2022-08-19	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2022-08-19	
Sulfate	29.7	AO ≤ 500	1.0	mg/L	2022-08-19	

Calculated Parameters

Hardness, Total (as CaCO3)	107	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	175	AO ≤ 500	1.00	mg/L	N/A	

General Parameters

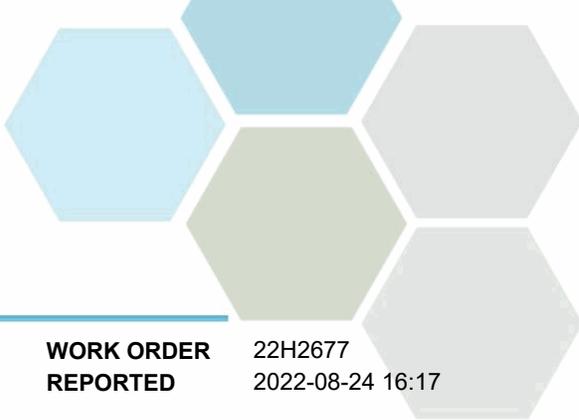
Alkalinity, Total (as CaCO3)	136	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Bicarbonate (as CaCO3)	136	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-08-19	
Conductivity (EC)	286	N/A	2.0	µS/cm	2022-08-19	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2022-08-18	
pH	7.81	7.0-10.5	0.10	pH units	2022-08-19	HT2
Turbidity	0.40	OG < 1	0.10	NTU	2022-08-19	

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-08-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-08-18	

Total Metals

Aluminum, total	0.0061	OG < 0.1	0.0050	mg/L	2022-08-23	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-08-23	
Arsenic, total	0.00180	MAC = 0.01	0.00050	mg/L	2022-08-23	
Barium, total	0.0881	MAC = 2	0.0050	mg/L	2022-08-23	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-08-23	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2022-08-23	
Calcium, total	35.4	None Required	0.20	mg/L	2022-08-23	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Copper, total	0.00068	MAC = 2	0.00040	mg/L	2022-08-23	
Iron, total	0.104	AO ≤ 0.3	0.010	mg/L	2022-08-23	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-08-23	
Magnesium, total	4.48	None Required	0.010	mg/L	2022-08-23	



TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
General Potability

WORK ORDER REPORTED 22H2677
2022-08-24 16:17

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
Golf Course Well (22H2677-02) Matrix: Water Sampled: 2022-08-17 09:35, Continued					
<i>Total Metals, Continued</i>					
Manganese, total	0.0510	MAC = 0.12	0.00020 mg/L	2022-08-23	
Potassium, total	3.03	N/A	0.10 mg/L	2022-08-23	
Selenium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2022-08-23	
Sodium, total	13.4	AO ≤ 200	0.10 mg/L	2022-08-23	
Strontium, total	0.224	MAC = 7	0.0010 mg/L	2022-08-23	
Uranium, total	0.000307	MAC = 0.02	0.000020 mg/L	2022-08-23	
Zinc, total	< 0.0040	AO ≤ 5	0.0040 mg/L	2022-08-23	

Big Eddy Well 1 (22H2677-03) | Matrix: Water | Sampled: 2022-08-17 10:06

<i>Anions</i>					
Chloride	22.9	AO ≤ 250	0.10 mg/L	2022-08-19	
Fluoride	0.12	MAC = 1.5	0.10 mg/L	2022-08-19	
Nitrate (as N)	0.154	MAC = 10	0.010 mg/L	2022-08-19	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2022-08-19	
Sulfate	10.6	AO ≤ 500	1.0 mg/L	2022-08-19	

<i>Calculated Parameters</i>					
Hardness, Total (as CaCO3)	76.5	None Required	0.500 mg/L	N/A	
Solids, Total Dissolved	156	AO ≤ 500	1.00 mg/L	N/A	

<i>General Parameters</i>					
Alkalinity, Total (as CaCO3)	119	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Bicarbonate (as CaCO3)	119	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0 mg/L	2022-08-19	
Conductivity (EC)	261	N/A	2.0 µS/cm	2022-08-19	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2022-08-18	
pH	6.81	7.0-10.5	0.10 pH units	2022-08-19	HT2
Turbidity	0.30	OG < 1	0.10 NTU	2022-08-19	

<i>Microbiological Parameters</i>					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2022-08-18	
Background Colonies	>200	N/A	200 CFU/100 mL	2022-08-18	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2022-08-18	

<i>Total Metals</i>					
Aluminum, total	0.0071	OG < 0.1	0.0050 mg/L	2022-08-23	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2022-08-23	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2022-08-23	
Barium, total	0.0109	MAC = 2	0.0050 mg/L	2022-08-23	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2022-08-23	
Cadmium, total	0.000013	MAC = 0.005	0.000010 mg/L	2022-08-23	



TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
General Potability

WORK ORDER REPORTED 22H2677
2022-08-24 16:17

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
Big Eddy Well 1 (22H2677-03) Matrix: Water Sampled: 2022-08-17 10:06, Continued					
<i>Total Metals, Continued</i>					
Calcium, total	27.2	None Required	0.20 mg/L	2022-08-23	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2022-08-23	
Copper, total	0.193	MAC = 2	0.00040 mg/L	2022-08-23	
Iron, total	1.00	AO ≤ 0.3	0.010 mg/L	2022-08-23	
Lead, total	0.00127	MAC = 0.005	0.00020 mg/L	2022-08-23	
Magnesium, total	2.07	None Required	0.010 mg/L	2022-08-23	
Manganese, total	0.00094	MAC = 0.12	0.00020 mg/L	2022-08-23	
Potassium, total	1.67	N/A	0.10 mg/L	2022-08-23	
Selenium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2022-08-23	
Sodium, total	18.5	AO ≤ 200	0.10 mg/L	2022-08-23	
Strontium, total	0.123	MAC = 7	0.0010 mg/L	2022-08-23	
Uranium, total	0.000240	MAC = 0.02	0.000020 mg/L	2022-08-23	
Zinc, total	0.116	AO ≤ 5	0.0040 mg/L	2022-08-23	

Big Eddy Well 3 (22H2677-04) | Matrix: Water | Sampled: 2022-08-17 10:15

<i>Anions</i>					
Chloride	31.2	AO ≤ 250	0.10 mg/L	2022-08-19	
Fluoride	0.12	MAC = 1.5	0.10 mg/L	2022-08-19	
Nitrate (as N)	0.249	MAC = 10	0.010 mg/L	2022-08-19	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2022-08-19	
Sulfate	9.5	AO ≤ 500	1.0 mg/L	2022-08-19	

<i>Calculated Parameters</i>					
Hardness, Total (as CaCO3)	66.3	None Required	0.500 mg/L	N/A	
Solids, Total Dissolved	145	AO ≤ 500	1.00 mg/L	N/A	

<i>General Parameters</i>					
Alkalinity, Total (as CaCO3)	88.6	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Bicarbonate (as CaCO3)	88.6	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0 mg/L	2022-08-19	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0 mg/L	2022-08-19	
Conductivity (EC)	261	N/A	2.0 µS/cm	2022-08-19	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020 mg/L	2022-08-18	
pH	6.88	7.0-10.5	0.10 pH units	2022-08-19	HT2
Turbidity	0.19	OG < 1	0.10 NTU	2022-08-19	

<i>Microbiological Parameters</i>					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2022-08-18	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2022-08-18	

<i>Total Metals</i>					
Aluminum, total	0.0060	OG < 0.1	0.0050 mg/L	2022-08-23	



TEST RESULTS

REPORTED TO PROJECT Revelstoke, City of
General Potability

WORK ORDER REPORTED 22H2677
2022-08-24 16:17

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Big Eddy Well 3 (22H2677-04) Matrix: Water Sampled: 2022-08-17 10:15, Continued						
<i>Total Metals, Continued</i>						
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-08-23	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2022-08-23	
Barium, total	0.0104	MAC = 2	0.0050	mg/L	2022-08-23	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-08-23	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2022-08-23	
Calcium, total	23.4	None Required	0.20	mg/L	2022-08-23	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Copper, total	0.00267	MAC = 2	0.00040	mg/L	2022-08-23	
Iron, total	0.029	AO ≤ 0.3	0.010	mg/L	2022-08-23	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-08-23	
Magnesium, total	1.90	None Required	0.010	mg/L	2022-08-23	
Manganese, total	0.00029	MAC = 0.12	0.00020	mg/L	2022-08-23	
Potassium, total	1.61	N/A	0.10	mg/L	2022-08-23	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-08-23	
Sodium, total	22.4	AO ≤ 200	0.10	mg/L	2022-08-23	
Strontium, total	0.112	MAC = 7	0.0010	mg/L	2022-08-23	
Uranium, total	0.000162	MAC = 0.02	0.000020	mg/L	2022-08-23	
Zinc, total	0.0042	AO ≤ 5	0.0040	mg/L	2022-08-23	

Sample Qualifiers:
 HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Revelstoke, City of
General Potability

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Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2017)	Titration with H2SO4	✓	Kelowna
Anions in Water	SM 4110 B (2017)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2017)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
E. coli in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Hardness in Water	SM 2340 B* (2017)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
pH in Water	SM 4500-H+ B (2017)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2017)	SM 1030 E (2011)		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Turbidity in Water	SM 2130 B (2017)	Nephelometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
>=	Greater than or equal to the specified Result
>2	Greater than the specified Result
AO	Aesthetic Objective
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
ASTM	ASTM International Test Methods
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association



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General Comments:

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Samples will be disposed of 30 days after the test report has been issued or once samples expire, whichever comes first. Longer hold is possible if agreed to in writing. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: TeamCaro@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.