



Annual Report of Monitoring

Lister Water System

Developed in accordance with the
British Columbia Drinking Water Protection Act

LISTER WATER SYSTEM	
Period of Monitoring Covered by this Report:	January 1 - December 31, 2025
Interior Health Permit to Operate Facility Number:	12-098-00372
EOCP Classification:	Large Water System
IHA Permit:	Drinking Water System – 301-10,000 Connections
Location of Water Supply System:	Lister, BC

Contact Information:

Regional District of Central Kootenay
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Nelson, BC V1L 5R4
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Appendix A

Comprehensive Chemistry Analysis Results

Appendix B

Trihalomethanes and
Volatile Organic Compounds Monitoring Results

1. Introduction

Lister is a community located 16 km southeast of Creston within RDCK Electoral Area B. This system was first developed in 1929 and underwent significant upgrades in the 60s, 70s, and 80s. It was converted to a RDCK service in 1982 and services 196 active connections. A new groundwater well and reservoir was commissioned in 2013.

As part of the British Columbia Provincial *Drinking Water Protection Act (2001)* and *Drinking Water Protection Regulation (2003)* an annual water system report to water users is required. This annual report summarizes information collected and recorded throughout the reporting period, and details additional relevant information to the water system.

2. Water Treatment Objectives

The provincial technical document *Drinking Water Treatment Objectives (Microbiological) for Ground Water Supplies in British Columbia* (2015) provides guidelines on determination of ground water at risk of containing pathogens. If a ground water well is determined to be at risk, disinfection must be provided. Microbiological treatment objectives for Groundwater at Risk of Containing Pathogens (GARP) – Virus Only are as followings:

- 4-log reduction (99.99%) reduction of viruses
- Turbidity less than 1 NTU (Nephelometric Turbidity Unit)
- Zero total and fecal coliforms (E. coli)

Prior to release of the provincial technical document, a new well and reservoir were commissioned in Lister. Early bacteriological monitoring indicated the reoccurring presence of coliforms in water sample testing results, which suggested the well could be at risk of containing pathogens. As a result, sodium hypochlorite disinfection was implemented.

The Lister water treatment plant provides biologically safe drinking water and the Regional District continues to monitor water quality.

3. Water System Overview

Lister Water System's water source is a groundwater well. A reservoir commissioned in late 2013 combined with chlorine disinfection continues to be effective for improved water quality in the Lister system.

4. Monitoring

The Lister Water System includes monitoring for bacteriological testing (total/fecal coliforms), turbidity, chlorine residual (free), consumption, and chemical constituents.

4.1 Bacteriological

Sampling is done from various locations within the distribution system. Tests for total and fecal coliforms are performed in accordance with the methods outlined in the Standard Methods for the Examination of Water and Wastewater (2005). Colony forming units (cfu) per 100 ml are determined for each sample. Fourteen samples were taken in 2025 with no adverse sample results which indicates that the Lister Water System consistently met guidelines for bacteriological parameters.

4.2 Turbidity

Turbidity is measured at the reservoir and two locations within the distribution system using handheld turbidity meters. The Regional District targets a turbidity level post reservoir below 1 NTU. Figure 1 outlines reservoir water turbidity levels. Turbidity levels did not exceed 1 NTU during the reporting period.

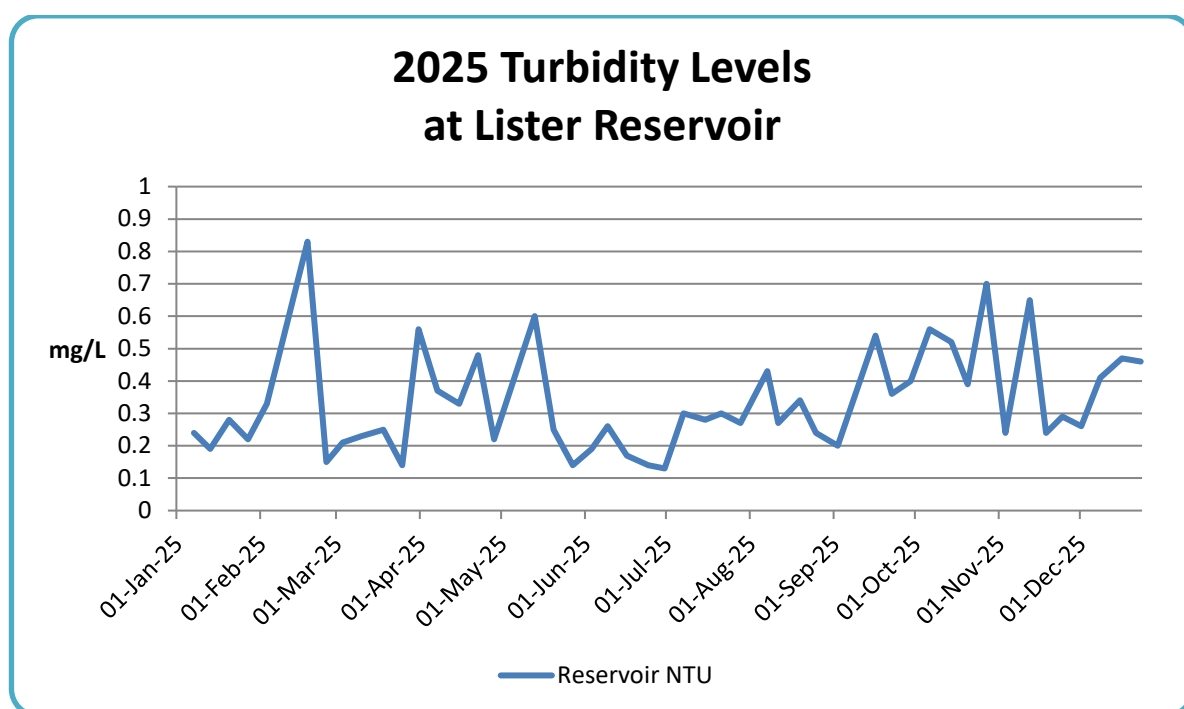


Figure 1 – Reservoir Turbidity Levels for Reporting Period

4.3 Chlorine Residual

The Lister treatment system measures free Chlorine residual at the reservoir using an online Chlorine analyser. The Regional District targets a minimum Chlorine residual of 0.5 mg/l post-reservoir to meet the required concentration for disinfection. Figure 1 shows the Chlorine residual levels at the Lister Reservoir. Chlorine residual dropped below target on June 3, 2025, however, residual remained above target in the distribution system on the same day.

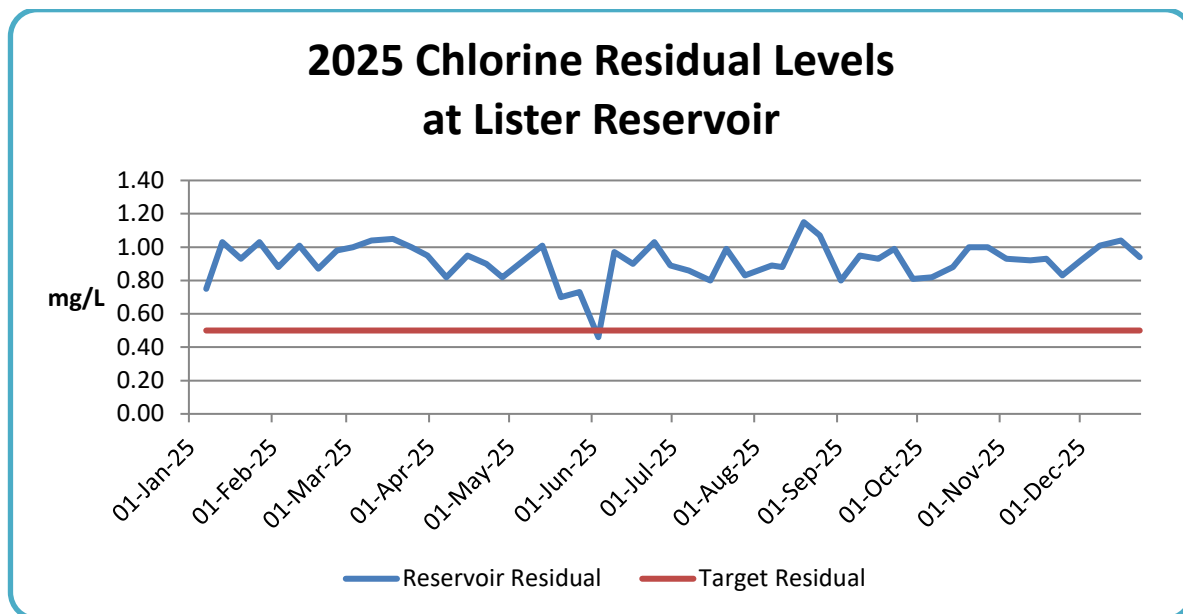


Figure 2 – Free Chlorine Residual Levels for Reporting Period

4.4 Consumption

Flow rates are measured at the Lister well in cubic meters. The total flow recorded for the reporting period was 213,820 cubic meters. The average monthly flow was 17,818 cubic meters. Figure 3 shows the monthly flow at the Lister well.

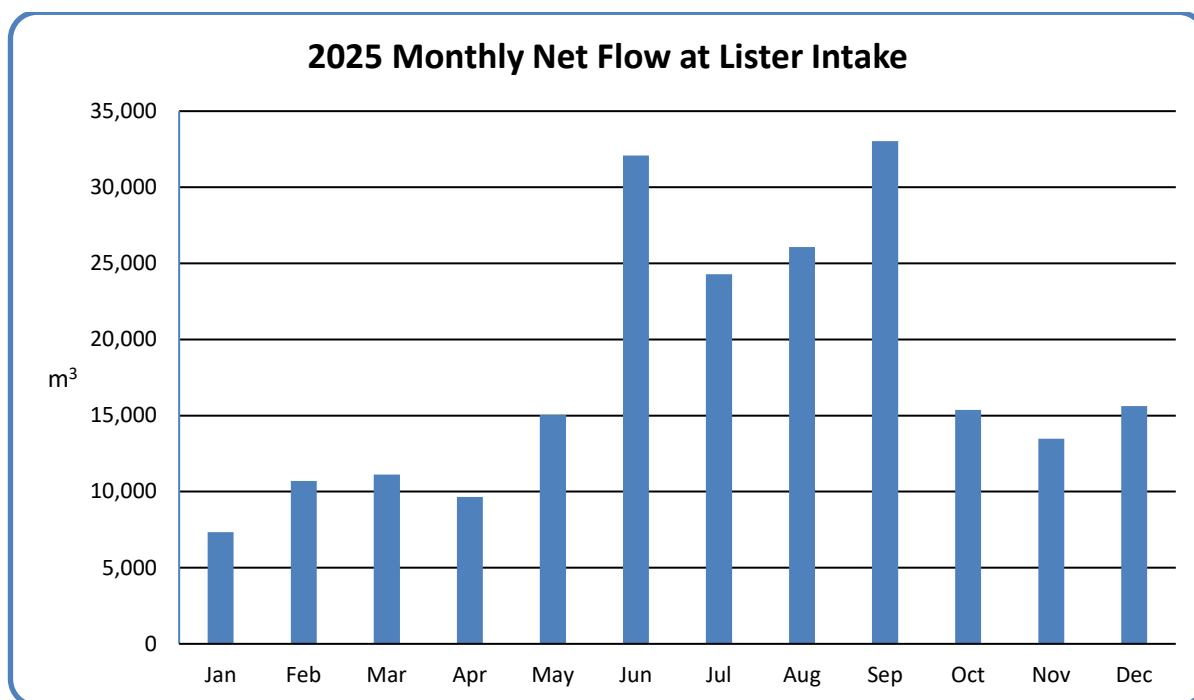


Figure 3 – Treated Water Volumes for Reporting Period

4.5 Chemistry

A comprehensive chemical analysis of a sample from the reservoir was completed in October 2025. These test results can be found in Appendix A. The results in Appendix A show that chemical parameters are below the Maximum Acceptable Concentration (MAC) as detailed in Health Canada's *Guidelines for Canadian Drinking Water Quality – Summary Table (2024)*.

The RDCK also tested for the chemical disinfection by-products (trihalomethanes/haloacetic acids) and Volatile Organic Compounds in April 2025 at the reservoir and within the distribution system. These results are presented in Appendix A. The results show that levels are below the MAC as outlined in the *Guidelines*.

5. Advisories Issued

The following table describes the Notices and Advisories issued for the reporting period.

Table 1 – Notices and Advisories Issued

Notice/Advisory Type	Dates in Effect	Reason
Boil Water Notice	Feb 12 – 20, 2025	Depressurization
Boil Water Notice - Localized	Feb 21 - 28, 2025	Main repair
Boil Water Notice - Localized	Mar 4 – 10, 2025	Leak repair
Boil Water Notice - Localized	June 11 – 20, 2025	Leak repair
Boil Water Notice - Localized	Oct 9 – 20, 2025	Depressurization

Each Notice/Advisory was issued a Rescind Notice to notify the public once action was completed and water quality sampling results demonstrated good water quality.

6. Capital Projects and Operations & Maintenance

No capital projects were completed in 2025.

The following operation and maintenance items were completed in 2025:

- Annual flushing and valve exercising

7. Water Conservation

Mandatory Stage 1 water conservation measures are in place from June 1 to September 30 every year. Stage 1 measures permit the watering of lawns, gardens, trees and shrubs only from 7pm to 10am daily. Watering using drip irrigation, a watering can or a hand-held hose is permitted anytime. In 2025, these measures remained in place until October 15th, 2025 when all conservation measures were rescinded. The RDCK did not implement Stage 2 or 3 Water Conservation Measures in the Lister Water System in 2025.

8. Planned Improvements

8.1 *Improvements Required by Operating Permit or Drinking Water Officer*

The Lister Water System was reclassified as a large water system in 2023. Interior Health's Environmental Health Officer (EHO) reviewed the Lister Water System in Spring of 2025 and provided the following Conditions on Operating Permit under Section 8 of the BC Drinking Water Act:

Condition #1: Submit Monthly Water Quality Reports

Status: Completed

Condition #2: Update Operations & Maintenance Plan

Status: In Progress

Condition #3: Submit Asset Management Plan

Status: In Progress

Condition #4: Update Source Protection Planning for Groundwater Well

Status: In Progress

The RDCK is committed to complying with all terms and conditions of the permit by the target dates provided by Interior Health.

8.2 *Future Improvements*

There is currently a backlog of approximately \$10.8million in water line replacements identified in asset management planning. An assessment study was completed in 2019 to determine long term asset replacement and an upgrade schedule. A complementary Long Term Infrastructure Capacity Assessment was also undertaken, with the purpose of obtaining a greater understanding into the possibility of expanding the Lister Water System to include adjacent properties and community water systems. Studies are available on the RDCK Water Systems webpage under the Lister Water System (<https://rdck.ca/EN/main/services/water/rdck-water-systems/lister-water-system/lister-water-system-studies.html>).

The RDCK plans to complete the following in the next 5 years:

- Distribution system replacement 16th St - Design (2026)
- Distribution system replacement 16th St - Construction (2027)
- Secondary source (2029)

9. Training and Certification

Table 2 – Operator Certification

OPERATOR	ACTIVE EOC levels
Allan K. Richardson	WD-II, WT-II, WWC-II, MWWT-I, CH
Cody Peck	WT-II, WD-II, CH
Evan Bjarnason	WT-II, WD-II, CH
Kalen Luck	WT-I, CH

10. Emergency Response and Contingency Plan

The Emergency Response and Contingency Plan (ERCP) for the Lister Water System is updated annually. The ERCP includes emergency contact information, a communications plan, and detailed procedures for the following types of incidents:

- broken water main;
- source contamination;
- elevated turbidity levels in treated water;
- fire in a building;
- flood conditions;
- loss of source;
- presence of coliforms or E. coli;
- pump failure;
- power failure; and
- low chlorine residuals.

The *Drinking Water Protection Regulation (2003)*, under Section 13, requires that water suppliers provide an ERCP to address any potential emergencies that may impact the delivery of water and health of those being supplied by the water system. The ERCP must be made accessible to the staff of the water supplier and a copy submitted to the local Environmental Health Officer. The RDCK has fulfilled these requirements for the Lister Water System.

Appendix A: Comprehensive Chemistry Analysis Results

CERTIFICATE OF ANALYSIS

REPORTED TO Regional District of Central Kootenay - Erickson
531B 16th Ave. South
CRESTON, BC V0B 1G5

ATTENTION Allan Richardson

PO NUMBER RDCK- Erickson

PROJECT Lister Water System

PROJECT INFO

WORK ORDER 25J3290

RECEIVED / TEMP 2025-10-23 13:39 / 4.7°C

REPORTED 2025-11-03 13:24

COC NUMBER B37920

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.

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 hhannaoui@caro.ca

Authorized By:

Hanane El Hannaoui
Junior Account Manager

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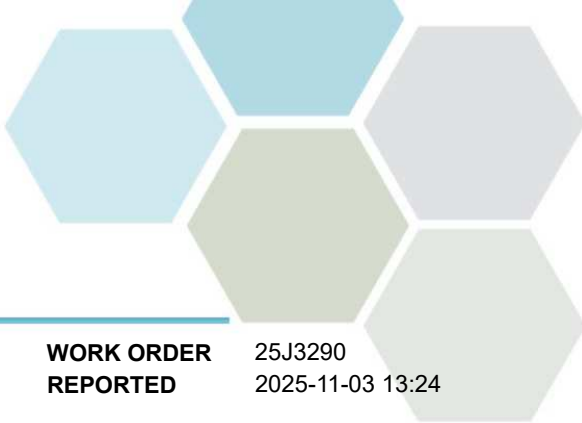
#110 4011 Viking Way Richmond, BC V6V 2K9 | #102 3677 Highway 97N Kelowna, BC V1X 5C3 | 17225 109 Avenue Edmonton, AB T5S 1H7 |
#108 4475 Wayburne Drive Burnaby, BC V5G 4X4

TEST RESULTS

REPORTED TO PROJECT Regional District of Central Kootenay - Erickson
Lister Water System

WORK ORDER REPORTED 25J3290
2025-11-03 13:24

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
14th St Sample Tap - Lister (25J3290-01) Matrix: Drinking Water Sampled: 2025-10-22 09:50					
Anions					
Chloride	1.14	AO ≤ 250	0.10 mg/L	2025-10-24	
Fluoride	< 0.10	MAC = 1.5	0.10 mg/L	2025-10-24	
Nitrate (as N)	0.023	MAC = 10	0.010 mg/L	2025-10-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010 mg/L	2025-10-24	
Sulfate	9.9	AO ≤ 500	1.0 mg/L	2025-10-24	
Calculated Parameters					
Total Trihalomethanes	< 0.00400	MAC = 0.1	0.00400 mg/L	N/A	
Hardness, Total (as CaCO ₃)	61.2	None Required	0.500 mg/L	N/A	
Solids, Total Dissolved	79.6	AO ≤ 500	1.00 mg/L	N/A	
General Parameters					
Alkalinity, Total (as CaCO ₃)	67.3	N/A	1.0 mg/L	2025-10-25	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-10-25	
Alkalinity, Bicarbonate (as CaCO ₃)	67.3	N/A	1.0 mg/L	2025-10-25	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-10-25	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0 mg/L	2025-10-25	
Conductivity (EC)	138	N/A	2.0 µS/cm	2025-10-25	
Cyanide, Total	0.0023	MAC = 0.2	0.0020 mg/L	2025-10-25	
pH	7.02	7.0-10.5	0.10 pH units	2025-10-25	HT2
Turbidity	0.11	OG < 1	0.10 NTU	2025-10-24	
Haloacetic Acids					
Monochloroacetic Acid	< 0.0032	N/A	0.0020 mg/L	2025-10-31	RA3
Monobromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2025-10-31	
Dichloroacetic Acid	< 0.0020	N/A	0.0020 mg/L	2025-10-31	
Trichloroacetic Acid	< 0.0020	N/A	0.0020 mg/L	2025-10-31	
Dibromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2025-10-31	
Total Haloacetic Acids (HAA5)	< 0.00320	MAC = 0.08	0.00320 mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	112		70-130 %	2025-10-31	
Microbiological Parameters					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2025-10-23	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2025-10-23	
Total Metals					
Aluminum, total	< 0.0050	OG < 0.1	0.0050 mg/L	2025-10-28	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2025-10-28	
Arsenic, total	0.00647	MAC = 0.01	0.00050 mg/L	2025-10-28	
Barium, total	< 0.0050	MAC = 2	0.0050 mg/L	2025-10-28	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2025-10-28	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010 mg/L	2025-10-28	
Calcium, total	21.3	None Required	0.20 mg/L	2025-10-28	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2025-10-28	
Copper, total	0.00483	MAC = 2	0.00040 mg/L	2025-10-28	



TEST RESULTS

REPORTED TO PROJECT	Regional District of Central Kootenay - Erickson Lister Water System	WORK ORDER REPORTED	25J3290 2025-11-03 13:24
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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14th St Sample Tap - Lister (25J3290-01) | Matrix: Drinking Water | Sampled: 2025-10-22 09:50, Continued

Total Metals, Continued

Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-10-28	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-10-28	
Magnesium, total	1.95	None Required	0.010	mg/L	2025-10-28	
Manganese, total	< 0.00020	MAC = 0.12	0.00020	mg/L	2025-10-28	
Potassium, total	1.39	N/A	0.10	mg/L	2025-10-28	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-10-28	
Sodium, total	2.85	AO ≤ 200	0.10	mg/L	2025-10-28	
Strontium, total	0.0564	MAC = 7	0.0010	mg/L	2025-10-28	
Uranium, total	0.000990	MAC = 0.02	0.000020	mg/L	2025-10-28	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-10-28	

Volatile Organic Compounds (VOC)

Bromodichloromethane	< 0.0010	N/A	0.0010	mg/L	2025-10-27	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2025-10-27	
Chloroform	< 0.0010	N/A	0.0010	mg/L	2025-10-27	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2025-10-27	
Surrogate: Toluene-d8	102		70-130	%	2025-10-27	
Surrogate: 4-Bromofluorobenzene	82		70-130	%	2025-10-27	

Sample Qualifiers:

HT2	The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
RA3	The Reporting Limit has been raised due to comparable level detected in the blank(s).

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Central Kootenay - Erickson
Lister Water System

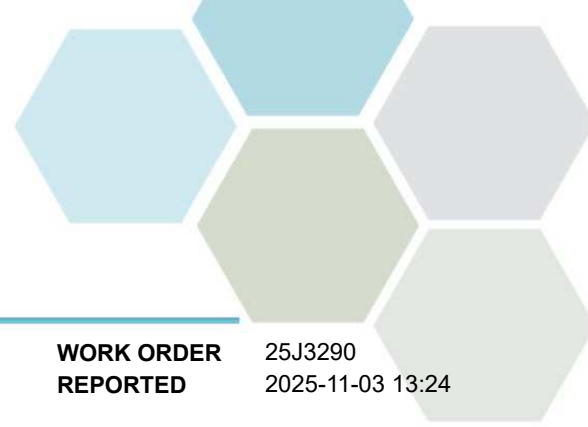
WORK ORDER REPORTED 25J3290
2025-11-03 13:24

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	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* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	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
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



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Central Kootenay - Erickson
Lister Water System

WORK ORDER REPORTED 25J3290
2025-11-03 13:24

General Comments:

The results in this report apply to samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any liability is limited to the cost of analysis. CARO will dispose of all samples within 30 days of sample receipt, unless otherwise agreed. The quality control (QC) data is available upon request

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Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.

Appendix B: Trihalomethanes and Volatile Organic Compounds Monitoring Results

CERTIFICATE OF ANALYSIS

REPORTED TO	Regional District of Central Kootenay - Erickson 531B 16th Ave. South CRESTON, BC V0B 1G5		
ATTENTION	Allan Richardson	WORK ORDER	25D2690
PO NUMBER	RDCK- Erickson	RECEIVED / TEMP	2025-04-16 13:21 / 13.6°C
PROJECT	Lister Water System	REPORTED	2025-05-29 16:25
PROJECT INFO		COC NUMBER	B37916

Introduction:

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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.

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 bwhitehead@caro.ca

Authorized By:

Brent Whitehead
Account Manager

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 Regional District of Central Kootenay - Erickson
Lister Water System

WORK ORDER REPORTED 25D2690
2025-05-29 16:25

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
14th st Sample Tap (25D2690-02) Matrix: Water Sampled: 2025-04-15 10:20						
Calculated Parameters						
Total Trihalomethanes	< 0.00400	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2025-04-24	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2025-04-24	
Dichloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2025-04-24	
Trichloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2025-04-24	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2025-04-24	
Total Haloacetic Acids (HAA5)	< 0.00200	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	87		70-130	%	2025-04-24	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	< 0.0010	N/A	0.0010	mg/L	2025-04-25	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2025-04-25	
Chloroform	< 0.0010	N/A	0.0010	mg/L	2025-04-25	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2025-04-25	
Surrogate: Toluene-d8	98		70-130	%	2025-04-25	
Surrogate: 4-Bromofluorobenzene	99		70-130	%	2025-04-25	

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Central Kootenay - Erickson
Lister Water System

WORK ORDER REPORTED 25D2690
2025-05-29 16:25

Analysis Description	Method Ref.	Technique	Accredited	Location
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond

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
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
EPA	United States Environmental Protection Agency Test Methods

Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada, September 2022\)](#)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user

General Comments:

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