Unit# 288, 2880 45 Ave S.E.
Calgary, AB, T2B 3M1
Phone (403) 297-0868
Fax: (403) 297-0869

KaizenLAB

ANALYTICAL REPORT

Client: Town of Cochrane
101 Ranchehouse Rd
Cochrane, AB, T4C 2K8

Attention: Richard Gaida

KaizenLAB JOB #:	**352982**
DATE RECEIVED:	10-Jul-2026
DATE REPORTED:	24-Jul-2026
PROJECT ID:	Summer Samples
LOCATION:	Riverheights

KaizenLAB Sample #: 352982_001 **Sample ID:** Riverheights
Date Sampled: 8:00 9-Jul-2026

Parameter Description	Units	Result	Guideline Limits*	Comment
Routine Water Potability Analysis (Potability pkg #2)				
Electrical Conductivity (EC) at 25°C	uS/cm	321		
pH		7.3	7.0-10.5 (AO)	Acceptable
True Colour	TCU	<4	15 (AO)	Acceptable
Turbidity	NTU	<0.10	0.1 (MAC) see notes	See notes
Potability Package Calculations				
Ion Balance (calculated)	%	104.23		
Total Dissolved Solids (calculated)	mg/L	179	500 (AO)	Acceptable
Alkalinity Parameters of Water				
Alkalinity (phenolphthalein, as CaCO3) [1]	mg/L	<2.0		
Alkalinity (total, as CaCO3)	mg/L	115.8		
Bicarbonate (as HCO3) [1]	mg/L	141.2		
Carbonate (as CO3) [1]	mg/L	<1.5		
Hydroxide (as OH) [1]	mg/L	<0.5		
Anions in Water by IC				
Bromide	mg/L	<0.10		
Chloride	mg/L	14.14	250 (AO)	Acceptable
Fluoride	mg/L	0.14	1.5 (MAC)	Pass
Nitrate-N	mg/L	0.152	10 (MAC)	Pass
Nitrite-N	mg/L	<0.005	1 (MAC)	Pass
Nitrite-N + Nitrate-N	mg/L	0.152		
Phosphate	mg/L	<0.10		
Sulphate	mg/L	35.53	500 (AO)	Acceptable

*CDWQG = Canadian Drinking Water Quality Guidelines, Health Canada 2025: MAC = Maximum Acceptable Concentration (affects health), AO = Aesthetic Objective (does not affect health but affects color, taste, etc.), OG = Operational Guidance

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KaizenLAB Sample #: 352982_001 **Sample ID:** Riverheights

Date Sampled: 8:00 9-Jul-2026

Parameter Description	Units	Result	Guideline Limits*	Comment
Cations in Water by ICP-OES				
Dissolved Calcium	mg/L	42.3		
Dissolved Iron[1]	mg/L	<0.05	0.3 (AO)	Acceptable
Dissolved Magnesium	mg/L	12.6		
Dissolved Manganese[1]	mg/L	<0.05		
Dissolved Potassium	mg/L	0.6		
Dissolved Sodium	mg/L	3.6	200 (AO)	Acceptable
Hardness (calculated, as CaCO3)	mg/L	157.5		
Sodium Adsorption Ratio (calculated)		0.12		
Total Metals for Drinking Water				
Total Mercury	ug/L	<0.001	1 (MAC)	Pass
Total Metals in Water by ICP-MS				
Total Aluminum	mg/L	0.079	2.9 (MAC)see notes	See notes
Total Antimony	mg/L	<0.0006	0.006 (MAC)	Pass
Total Arsenic	mg/L	0.00009	0.010 (MAC)	Pass
Total Barium	mg/L	0.038	2.0 (MAC)	Pass
Total Boron	mg/L	<0.03	5 (MAC)	Pass
Total Cadmium	mg/L	<0.00004	0.007 (MAC)	Pass
Total Chromium	mg/L	<0.0009	0.05 (MAC)	Pass
Total Copper	mg/L	0.0047	2.0 (MAC)	Pass
Total Iron	mg/L	<0.02	0.3 (AO)	Acceptable
Total Lead	mg/L	<0.0003	0.005 (MAC)	Pass
Total Manganese	mg/L	<0.005	0.12 (MAC)/ 0.02 (AO)	Pass
Total Selenium	mg/L	0.0006	0.05 (MAC)	Pass
Total Silver	mg/L	<0.00007		
Total Strontium	mg/L	0.166	7.000 (MAC)	Pass
Total Uranium	mg/L	0.00012	0.02 (MAC)	Pass
Total Zinc	mg/L	0.013	5.0 (AO)	Acceptable

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KaizenLAB Sample #: 352982_001 **Sample ID:** Riverheights

Date Sampled: 8:00 9-Jul-2026

Parameter Description	Units	Result	Guideline Limits*	Comment
Ammonia in water				
Ammonia-N	mg/L	<0.05		
Cyanide, Total	mg/L	<0.003	0.2 (MAC)	Pass
Glyphosate	mg/L	<0.020	0.28 (MAC)	Pass
Nitrilotriacetic Acid (NTA)	mg/L	<0.4	0.4 (MAC)	Pass
Sulphide	mg/L	<0.010	0.05 (AO)	Acceptable
Total Microcystins	mg/L	<0.00015		
Total Organic Carbon	mg/L	0.85		
Oxyhalides in Water by IC				
Bromate	mg/L	<0.005	0.01 (MAC)	Pass
Chlorate	mg/L	0.09	1 (MAC)	Pass
Chlorite	mg/L	<0.05	1 (MAC)	Pass
Herbicides in Water				
2,4-D	mg/L	<0.002	0.1 (MAC)	Pass
Bromoxynil	mg/L	<0.002	0.030 (MAC)	Pass
Dicamba	mg/L	<0.002	0.11 (MAC)	Pass
MCPA	mg/L	<0.002	0.35 (MAC)	Pass
Base/Neutral and Acid Extractable Organic Compounds in Water				
2,4,6-Trichlorophenol	mg/L	<0.002	0.005 (MAC)	Pass
Atrazine + Metabolites	mg/L	<0.001	0.005 (MAC)	Pass
Benzo(a)Pyrene	mg/L	<0.000005	0.00004 (MAC)	Pass
Chlorpyrifos	mg/L	<0.002	0.09 (MAC)	Pass
Cyanazine	mg/L	<0.002		
Dimethoate	mg/L	<0.002	0.02 (MAC)	Pass
Malathion	mg/L	<0.002	0.29 (MAC)	Pass
Methoxychlor	mg/L	<0.002		
Metribuzin	mg/L	<0.002	0.08 (MAC)	Pass
Omethoate	mg/L	<0.002		
Pentachlorophenol	mg/L	<0.002	0.06 (MAC)	Pass
Volatile Organic Compounds in Water				
1,2-Dichloroethane	mg/L	<0.002	0.005 (MAC)	Pass
1,4-Dichlorobenzene	mg/L	<0.0005	0.005 (MAC)	Pass
1,4-Dioxane	mg/L	<0.040		

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KaizenLAB Sample #: 352982_001 **Sample ID:** Riverheights

Date Sampled: 8:00 9-Jul-2026

Parameter Description	Units	Result	Guideline Limits*	Comment
Benzene	mg/L	<0.001	0.005 (MAC)	Pass
Carbon Tetrachloride	mg/L	<0.0005	0.002 (MAC)	Pass
Dichloromethane	mg/L	<0.002	0.05 (MAC)	Pass
Ethylbenzene	mg/L	<0.001	0.14 (MAC)	Pass
m,p-Xylenes	mg/L	<0.002		
MTBE	mg/L	<0.004	0.015 (AO)	Acceptable
o-Xylenes	mg/L	<0.001		
Tetrachloroethene	mg/L	<0.001	0.01 (MAC)	Pass
Toluene	mg/L	<0.0005	0.06 (MAC)	Pass
Total Xylenes	mg/L	<0.003	0.090 (MAC)	Pass
Trichloroethene	mg/L	<0.00030	0.005 (MAC)	Pass
Vinyl Chloride	mg/L	<0.001	0.002 (MAC)	Pass

Notes:

- Aluminum: This Operational Guideline applies only to drinking water treatment plants using aluminum-based coagulants: conventional systems - 0.1 mg/L, other systems - 0.2 mg/L
- Turbidity: Based on slow sand or diatomaceous earth filtration (1.0 NTU) / membrane filtration (0.1 NTU) / conventional treatment (0.3 NTU). No limits apply for well water not under the influence of surface water. Refer to the Guidelines for Canadian Drinking Water Quality found on the Government of Canada website for current information.

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Test Methodologies

Alkalinity in Water: Modified from SM 2320 B
Ammonia in Water: Modified from SM 4500-NH3 F
Anions in Water: Modified from SM 4110 B
Base/Neutral and Acid Extractable Organic Compounds in Water: Modified from EPA 3510C, EPA 8151A, and EPA 8270E
Cations in Water by ICP-OES: Modified from SM 3030 B and SM 3120 B
Cyanide, Total, in Water: Modified from ISO 14403:2012(E) and Skalar Analytical B.V., Catnr I295-004w/r issue 010421/99368551
Electrical Conductivity in Water: Modified from SM 2510 B and CCME Guidance Manual Volume 4, 2016
Glyphosate in Water: Modified from Journal of Chromatography A, 886 (2000) 207-216
Herbicides in Water: Modified from EPA 1653, EPA 8151A, EPA 8270E, and Supelco Application Note 100
Microcystin in Water: Modified from Microcystin-ADDA ELISA (Microtiter Plate) Instructional Booklet, Abraxis Inc.
Nitrilotriacetic Acid in Water: Modified from Journal of Chromatography A, 690 (1995) 109-118
Oxyhalides in Water: Modified from SM 4110 D and EPA 317.0
pH of Water: Modified from SM 4500-H+ B
Sulphide in Water: Modified from SM 4500-S2 D and C, and HACH Method 8131
Total Dissolved Solids and Ion Sums/Ratios (calculation): Modified from SM 1030 E
Total Mercury in Water: Modified from EPA 1631 Revision E
Total Metals in Water by ICP-MS: Modified from EPA 200.2 and SM 3125 B
Total/Dissolved Organic Carbon in Water: Modified from SM 5310 B
True Colour in Water: Modified from SM 2120 C
Turbidity in Water: Modified from SM 2130 B
Volatile Organic Compounds in Water: Modified from EPA 8260D and EPA 5030C

Final Review by:

Irene De Leon
Client Services Representative

Note: The results in this report relate only to the items tested and as received. Information is available for any items in 7.8.2.1 of ISO/IEC 17025:2017 that cannot be put on a test report. The report shall not be reproduced except in full without written approval of KaizenLAB. The validity of results may be affected if the information is provided by the customer.
Test methodologies are accredited in accordance with ISO/IEC 17025 via CALA, unless otherwise specified in the description of the methods .
[1]This analyte is not accredited, even though analyzed by an accredited methodology.

Pass/Acceptable: The measurement result conforms with the specification limit when the measurement uncertainty is taken into account.
Pass/Acceptable:** It is not possible to state conformance using a 95 % coverage probability for the expanded uncertainty although the measurement result is below the limit.
Fail/Unacceptable: The measurement result does not conform with the specification limit when the measurement uncertainty is taken into account.

The statement of conformity is based on a 95% coverage probability for the expanded uncertainty. The test results and the statement of conformance with specification in this report relate only to the test sample as analysed/tested and not to the sample/item from which the test sample was drawn.

CERTIFICATE OF ANALYSIS

REPORTED TO	Kaizen Lab Unit 288 2880 45 Ave SE Calgary, AB T2B 3M1		
ATTENTION	General Reporting	**WORK ORDER**	26G1756
PO NUMBER	126942	**RECEIVED / TEMP**	2026-07-14 08:10 / 18.6°C
PROJECT	!MASTER PROJECT - Water Analysis	**REPORTED**	2026-07-16 13:44
PROJECT INFO	352982_SUB1	**COC NUMBER**	No Number

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 djose@caro.ca

Authorized By:

Dona Anna Jose
Junior Account Manager

TEST RESULTS

REPORTED TO	Kaizen Lab	**WORK ORDER**	26G1756
PROJECT	!MASTER PROJECT - Water Analysis	**REPORTED**	2026-07-16 13:44

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Riverheights (352982) (26G1756-01) | Matrix: Water | Sampled: 2026-07-09 08:00						
Calculated Parameters						
Chloramines	**0.0400**	MAC = 3	0.0200	mg/L	N/A	
General Parameters						
Chlorine, Total	**0.55**	None Required	0.02	mg/L	2026-07-16	HT2
Chlorine, Free	**0.51**	N/A	0.02	mg/L	2026-07-16	HT2

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	Kaizen Lab	**WORK ORDER**	26G1756
PROJECT	!MASTER PROJECT - Water Analysis	**REPORTED**	2026-07-16 13:44

Analysis Description	Method Ref.	Technique	Accredited	Location
Chlorine, Free in Water	SM 4500-Cl G (2021)	Colorimetry (DPD)	✓	Kelowna
Chlorine, Total in Water	SM 4500-Cl G (2021)	Colorimetry (DPD)	✓	Kelowna

Glossary of Terms:

RL	Reporting Limit (default)
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association

Guidelines Referenced in this Report:

Guidelines for Canadian Drinking Water Quality (Health Canada)

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:

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.

Results in **Bold** indicate values that are above CARO's method reporting limits. Results in **red** indicate values above the regulatory limits where these have been included. 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: djose@caro.ca

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APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Kaizen Lab	**WORK ORDER**	26G1756
PROJECT	!MASTER PROJECT - Water Analysis	**REPORTED**	2026-07-16 13:44

The following section displays the quality control (QC) data that is associated with your sample data. Groups of samples are prepared in "batches" and analyzed in conjunction with QC samples that ensure your data is of the highest quality. Common QC types include:

- **Method Blank (Blk)**: A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup)**: An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS)**: A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS)**: A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM)**: A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
General Parameters, Batch B6G3477										
Blank (B6G3477-BLK1)				Prepared: 2026-07-16, Analyzed: 2026-07-16						
Chlorine, Total	< 0.02	0.02	mg/L							
Chlorine, Free	< 0.02	0.02	mg/L							
Duplicate (B6G3477-DUP1)	**Source: 26G1756-01**			Prepared: 2026-07-16, Analyzed: 2026-07-16						
Chlorine, Total	0.55	0.02	mg/L		0.55			< 1	20	
Chlorine, Free	0.52	0.02	mg/L		0.51			2	20	
Reference (B6G3477-SRM1)				Prepared: 2026-07-16, Analyzed: 2026-07-16						
Chlorine, Total	0.24	0.02	mg/L	0.220		109	59-141			
Chlorine, Free	0.24	0.02	mg/L	0.220		109	59-141			

right solutions.
right partner.

CERTIFICATE OF ANALYSIS

Work Order	:	**CG2609613**			
Client	:	**KaizenLAB Inc.**	Laboratory	:	ALS Environmental - Calgary
Contact	:	Client Services	Account Manager	:	Adrian Canito
Address	:	Unit # 288, 2880 45 Ave SE Calgary Alberta Canada T2B 3M1	Address	:	2559 29th Street NE Calgary AB Canada T1Y 7B5
Telephone	:	403 297 0411	E-mail	:	[redacted]
Project	:	352982_SUB1	Telephone	:	[redacted]
PO	:	126944	Date Samples Received	:	13-Jul-2026 11:05
C-O-C number	:	----	Date Analysis Commenced	:	17-Jul-2026
Sampler	:	----	Issue Date	:	29-Jul-2026 10:21
Site	:	----			
Quote number	:	Prairies General Pricing 2025			
No. of samples received	:	1			
No. of samples analysed	:	1			

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Parth Goswami	Team Leader - LCMS	LCMS, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	*Description*
µg/L	micrograms per litre

<: less than.
>: greater than.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	**Riverheights (352982) ----**	----	----	----	----
					Client sampling date / time	09-Jul-2026 08:00	----	----	----	----
Analyte	*CAS Number*	*Method/Lab*	*LOR*	*Unit*	**CG2609613-001**	----	----	----	----	
					Result	----	----	----	----	
Nitrosamines										
Nitrosodimethylamine, N- [NDMA]	62-75-9	E725A/WT	0.034	µg/L	<0.034	----	----	----	----	
Nitrosamines Surrogates										
Nitrosodimethylamine-d6, N-	17829-05-9	E725A/WT	0.10	%	97.8	----	----	----	----	

Please refer to the General Comments section for an explanation of any qualifiers detected.

CERTIFICATE OF ANALYSIS

REPORTED TO	Kaizen Lab Unit 288 2880 45 Ave SE Calgary, AB T2B 3M1		
ATTENTION	General Reporting	**WORK ORDER**	26G2574
PO NUMBER	126952	**RECEIVED / TEMP**	2026-07-20 14:30 / 18.8°C
PROJECT	352982_SUB2	**REPORTED**	2026-08-04 12:35
PROJECT INFO	352982_SUB1	**COC NUMBER**	NO#

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

Authorized By:

Dona Anna Jose
Junior Account Manager

TEST RESULTS

REPORTED TO	Kaizen Lab	**WORK ORDER**	26G2574
PROJECT	352982_SUB2	**REPORTED**	2026-08-04 12:35

Analyte	Result	RL	Units	Analyzed	Qualifier
Riverheights (352982) (26G2574-01) | Matrix: Water | Sampled: 2026-07-16 10:00					
Miscellaneous Herbicides					
Diquat	< 0.0100	0.0100	mg/L	2026-07-23	
Paraquat	< 0.0050	0.0050	mg/L	2026-07-23	

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO	Kaizen Lab	**WORK ORDER**	26G2574
PROJECT	352982_SUB2	**REPORTED**	2026-08-04 12:35

Analysis Description	Method Ref.	Technique	Accredited	Location
Diquat/Paraquat in Water	EPA 549.2*	Liquid-Solid Extraction and HPLC-DAD	✓	Richmond

Note: An asterisk in the Method Reference indicates that the 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
mg/L	Milligrams per litre
EPA	United States Environmental Protection Agency Test Methods

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APPENDIX 2: QUALITY CONTROL RESULTS

REPORTED TO	Kaizen Lab	**WORK ORDER**	26G2574
PROJECT	352982_SUB2	**REPORTED**	2026-08-04 12:35

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- **Method Blank (Blk)**: A blank sample that undergoes sample processing identical to that carried out for the test samples. Method blank results are used to assess contamination from the laboratory environment and reagents.
- **Duplicate (Dup)**: An additional or second portion of a randomly selected sample in the analytical run carried through the entire analytical process. Duplicates provide a measure of the analytical method's precision (reproducibility).
- **Blank Spike (BS)**: A sample of known concentration which undergoes processing identical to that carried out for test samples, also referred to as a laboratory control sample (LCS). Blank spikes provide a measure of the analytical method's accuracy.
- **Matrix Spike (MS)**: A second aliquot of sample is fortified with a known concentration of target analytes and carried through the entire analytical process. Matrix spikes evaluate potential matrix effects that may affect the analyte recovery.
- **Reference Material (SRM)**: A homogenous material of similar matrix to the samples, certified for the parameter(s) listed. Reference Materials ensure that the analytical process is adequate to achieve acceptable recoveries of the parameter(s) tested.

Each QC type is analyzed at a 5-10% frequency, i.e. one blank/duplicate/spike for every 10-20 samples. For all types of QC, the specified recovery (% Rec) and relative percent difference (RPD) limits are derived from long-term method performance averages and/or prescribed by the reference method.

Analyte	Result	RL	Units	Spike Level	Source Result	% REC	REC Limit	% RPD	RPD Limit	Qualifier
Miscellaneous Herbicides, Batch B6G3941										
Blank (B6G3941-BLK1)				Prepared: 2026-07-21, Analyzed: 2026-07-23						
Diquat	< 0.0100	0.0100	mg/L							
Paraquat	< 0.0050	0.0050	mg/L							
LCS (B6G3941-BS1)				Prepared: 2026-07-21, Analyzed: 2026-07-23						
Diquat	0.0266	0.0100	mg/L	0.0250		107	70-130			
Paraquat	0.0254	0.0050	mg/L	0.0250		102	70-130			
LCS Dup (B6G3941-BSD1)				Prepared: 2026-07-21, Analyzed: 2026-07-23						
Diquat	0.0278	0.0100	mg/L	0.0250		111	70-130	4	20	
Paraquat	0.0269	0.0050	mg/L	0.0250		108	70-130	6	20	
Matrix Spike (B6G3941-MS1)		**Source: 26G2574-01**		Prepared: 2026-07-21, Analyzed: 2026-07-23						
Diquat	0.0289	0.0100	mg/L	0.0250	< 0.0100	116	60-140			
Paraquat	0.0295	0.0050	mg/L	0.0250	< 0.0050	118	60-140			

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KaizenLAB

ANALYTICAL REPORT

Client: Town of Cochrane
101 Ranchehouse Rd
Cochrane, AB, T4C 2K8

Attention: Richard Gaida

KaizenLAB JOB #:	**353571**
DATE RECEIVED:	05-Aug-2026
DATE REPORTED:	12-Aug-2026
PROJECT ID:	THM/HAA
LOCATION:	Various

KaizenLAB Sample #: 353571_001 **Sample ID:** WTP
Date Sampled: 7:30 5-Aug-2026

Parameter Description	Units	Result	Guideline Limits*	Comment
Trihalomethanes in water				
Bromodichloromethane	mg/L	<0.002		
Bromoform	mg/L	<0.002		
Chloroform	mg/L	0.0069		
Dibromochloromethane	mg/L	<0.002		
Total Trihalomethanes	mg/L	0.007	0.1 (MAC)	Pass
Bromoacetic Acid	mg/L	<0.004		
Bromochloroacetic Acid	mg/L	<0.004		
Chloroacetic Acid	mg/L	<0.004		
Dibromoacetic Acid	mg/L	<0.004		
Dichloroacetic Acid	mg/L	<0.004		
Trichloroacetic Acid	mg/L	<0.004		
Total Haloacetic Acids	mg/L	<0.024	0.08 (MAC)	Pass

*CDWQG = Canadian Drinking Water Quality Guidelines, Health Canada 2025: MAC = Maximum Acceptable Concentration (affects health), AO = Aesthetic Objective (does not affect health but affects color, taste, etc.), OG = Operational Guidance

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KaizenLAB Sample #: 353571_002 **Sample ID:** Riverheights
Date Sampled: 8:15 5-Aug-2026

Parameter Description	Units	Result	Guideline Limits*	Comment
Trihalomethanes in water				
Bromodichloromethane	mg/L	0.002		
Bromoform	mg/L	<0.002		
Chloroform	mg/L	0.0162		
Dibromochloromethane	mg/L	<0.002		
Total Trihalomethanes	mg/L	0.018	0.1 (MAC)	Pass
Bromoacetic Acid	mg/L	<0.004		
Bromochloroacetic Acid	mg/L	<0.004		
Chloroacetic Acid	mg/L	<0.004		
Dibromoacetic Acid	mg/L	<0.004		
Dichloroacetic Acid	mg/L	0.006		
Trichloroacetic Acid	mg/L	0.005		
Total Haloacetic Acids	mg/L	<0.024	0.08 (MAC)	Pass

KaizenLAB Sample #: 353571_003 **Sample ID:** Sundown
Date Sampled: 8:30 5-Aug-2026

Parameter Description	Units	Result	Guideline Limits*	Comment
Trihalomethanes in water				
Bromodichloromethane	mg/L	0.002		
Bromoform	mg/L	<0.002		
Chloroform	mg/L	0.0144		
Dibromochloromethane	mg/L	<0.002		
Total Trihalomethanes	mg/L	0.016	0.1 (MAC)	Pass
Bromoacetic Acid	mg/L	<0.004		
Bromochloroacetic Acid	mg/L	<0.004		
Chloroacetic Acid	mg/L	<0.004		
Dibromoacetic Acid	mg/L	<0.004		
Dichloroacetic Acid	mg/L	0.005		
Trichloroacetic Acid	mg/L	0.005		
Total Haloacetic Acids	mg/L	<0.024	0.08 (MAC)	Pass

*CDWQG = Canadian Drinking Water Quality Guidelines, Health Canada 2025: MAC = Maximum Acceptable Concentration (affects health), AO = Aesthetic Objective (does not affect health but affects color, taste, etc.), OG = Operational Guidance

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KaizenLAB Sample #: 353571_004 **Sample ID:** Gleneagles

Date Sampled: 8:45 5-Aug-2026

Parameter Description	Units	Result	Guideline Limits*	Comment
Trihalomethanes in water				
Bromodichloromethane	mg/L	0.002		
Bromoform	mg/L	<0.002		
Chloroform	mg/L	0.0223		
Dibromochloromethane	mg/L	<0.002		
Total Trihalomethanes	mg/L	0.024	0.1 (MAC)	Pass
Bromoacetic Acid	mg/L	<0.004		
Bromochloroacetic Acid	mg/L	<0.004		
Chloroacetic Acid	mg/L	<0.004		
Dibromoacetic Acid	mg/L	<0.004		
Dichloroacetic Acid	mg/L	0.010		
Trichloroacetic Acid	mg/L	0.009		
Total Haloacetic Acids	mg/L	<0.024	0.08 (MAC)	Pass

Test Methodologies

Haloacetic Acids in Water: Modified from EPA 552.3 and Analysis of HAA, UMASS Revision 4

Trihalomethanes in Water: Modified from EPA 8260D, EPA 5030C/EPA 5021A

Final Review by:

Carleen Scott
Client Experience Manager

Note: The results in this report relate only to the items tested and as received. Information is available for any items in 7.8.2.1 of ISO/IEC 17025:2017 that cannot be put on a test report. The report shall not be reproduced except in full without written approval of KaizenLAB. The validity of results may be affected if the information is provided by the customer.
Test methodologies are accredited in accordance with ISO/IEC 17025 via CALA, unless otherwise specified in the description of the methods .
[1]This analyte is not accredited, even though analyzed by an accredited methodology.

Pass/Acceptable: The measurement result conforms with the specification limit when the measurement uncertainty is taken into account.
Pass/Acceptable:** It is not possible to state conformance using a 95 % coverage probability for the expanded uncertainty although the measurement result is below the limit.
Fail/Unacceptable: The measurement result does not conform with the specification limit when the measurement uncertainty is taken into account.

The statement of conformity is based on a 95% coverage probability for the expanded uncertainty. The test results and the statement of conformance with specification in this report relate only to the test sample as analysed/tested and not to the sample/item from which the test sample was drawn.