CERTIFICATE OF ANALYSIS

REPORTED TO	Alto Utilities Ltd. 10397 Lodge Rd LAKE COUNTRY, BC V4V 1V6		
ATTENTION	Keith Hanson	**WORK ORDER**	25I1175
PO NUMBER		**RECEIVED / TEMP**	2025-09-09 11:58 / 14.4°C
PROJECT	Water comprehensive	**REPORTED**	2025-09-16 13:12
PROJECT INFO	Well 3 - South Well	**COC NUMBER**	eCOC#00027663

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 nonebunne@caro.ca

Authorized By:

Nkem Onebunne
Account Manager

CARO ANALYTICAL SERVICES

TEST RESULTS

REPORTED TO	Alto Utilities Ltd.	**WORK ORDER**	25I1175
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Well 3 - South Well (25I1175-01) | Matrix: Potable Water | Sampled: 2025-09-09 11:15						
Anions						
Chloride	**88.6**	AO ≤ 250	0.10	mg/L	2025-09-10	
Fluoride	**0.15**	MAC = 1.5	0.10	mg/L	2025-09-10	
Nitrate (as N)	**1.01**	MAC = 10	0.010	mg/L	2025-09-10	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-09-10	
Sulfate	**72.9**	AO ≤ 500	1.0	mg/L	2025-09-10	
Calculated Parameters						
Hardness, Total (as CaCO3)	**378**	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	**551**	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	**292**	N/A	1.0	mg/L	2025-09-12	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-09-12	
Alkalinity, Bicarbonate (as CaCO3)	**292**	N/A	1.0	mg/L	2025-09-12	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-09-12	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2025-09-12	
Conductivity (EC)	**980**	N/A	2.0	µS/cm	2025-09-12	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2025-09-10	
pH	**7.85**	7.0-10.5	0.10	pH units	2025-09-12	HT2
Turbidity	**0.88**	OG < 1	0.10	NTU	2025-09-10	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2025-09-09	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2025-09-09	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2025-09-11	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-09-11	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2025-09-11	
Barium, total	**0.0546**	MAC = 2	0.0050	mg/L	2025-09-11	
Boron, total	**0.0608**	MAC = 5	0.0500	mg/L	2025-09-11	
Cadmium, total	**0.000061**	MAC = 0.007	0.000010	mg/L	2025-09-11	
Calcium, total	**93.4**	None Required	0.20	mg/L	2025-09-11	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-09-11	
Copper, total	**0.00169**	MAC = 2	0.00040	mg/L	2025-09-11	
Iron, total	**0.158**	AO ≤ 0.1	0.010	mg/L	2025-09-11	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-09-11	
Magnesium, total	**35.2**	None Required	0.010	mg/L	2025-09-11	
Manganese, total	**0.0319**	MAC = 0.12	0.00020	mg/L	2025-09-11	
Potassium, total	**5.93**	N/A	0.10	mg/L	2025-09-11	
Selenium, total	**0.00228**	MAC = 0.05	0.00050	mg/L	2025-09-11	
Sodium, total	**71.9**	AO ≤ 200	0.10	mg/L	2025-09-11	
Strontium, total	**0.799**	MAC = 7	0.0010	mg/L	2025-09-11	
Uranium, total	**0.0142**	MAC = 0.02	0.000020	mg/L	2025-09-11	

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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Well 3 - South Well (25I1175-01) | Matrix: Potable Water | Sampled: 2025-09-09 11:15, Continued						
Total Metals, Continued						
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2025-09-11	

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	Alto Utilities Ltd.	**WORK ORDER**	25I1175
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Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	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
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	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	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

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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

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: nonebunne@caro.ca

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.