



CERTIFICATE OF ANALYSIS

REPORTED TO Wynndel Irrigation District

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.

5127 A Wynndel Road WYNNDEL. BC V0B 2N2

ATTENTION Evan Stang **WORK ORDER** 25K1482

PO NUMBER

2025-11-13 13:00 / 2.6°C **RECEIVED / TEMP REPORTED** 2025-11-20 12:36 **PROJECT Drinking Water**

No Number **PROJECT INFO COC 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

We've Got Chemistry

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

Ahead of the Curve

regulation Through research, and instrumentation, knowledge, are your analytical centre the knowledge technical you 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

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



TEST RESULTS

REPORTED TO PROJECT	Wynndel Irrigation District Drinking Water				WORK ORDER REPORTED	25K1482 2025-11-2	0 12:36
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
Reservoir (25K14	82-01) Matrix: Drinking Wa	iter Sampled	d: 2025-11-12 13:00				
Anions							
Chloride		0.63	AO ≤ 250	0.10	mg/L	2025-11-14	
Fluoride		< 0.10	MAC = 1.5		mg/L	2025-11-14	
Nitrate (as N)		< 0.010	MAC = 10		mg/L	2025-11-14	
Nitrite (as N)		< 0.010	MAC = 1	0.010		2025-11-14	
Sulfate		8.2	AO ≤ 500		mg/L	2025-11-14	
Calculated Parame	ters						
Hardness, Total (a	s CaCO3)	109	None Required	0.500	mg/L	N/A	
Langelier Index		-0.9	N/A	-5.0		2025-11-19	CT6
Nitrate+Nitrite (as	N)	< 0.0100	N/A	0.0100	mg/L	N/A	
Nitrogen, Total		0.0700	N/A	0.0500	mg/L	N/A	
Solids, Total Disso	olved	115	AO ≤ 500	1.00	mg/L	N/A	
General Parameter	s						
Alkalinity, Total (as	s CaCO3)	111	N/A	1.0	mg/L	2025-11-14	
	ohthalein (as CaCO3)	< 1.0	N/A		mg/L	2025-11-14	
Alkalinity, Bicarbo		111	N/A		mg/L	2025-11-14	
Alkalinity, Carbona		< 1.0	N/A		mg/L	2025-11-14	
Alkalinity, Hydroxid	,	< 1.0	N/A		mg/L	2025-11-14	
Ammonia, Total (a		< 0.050	None Required	0.050		2025-11-17	
Carbon, Total Orga	·	2.77	N/A		mg/L	2025-11-14	
Colour, True		< 5.0	AO ≤ 15		CÜ	2025-11-15	
Conductivity (EC)		215	N/A		μS/cm	2025-11-14	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	·	2025-11-17	
Nitrogen, Total Kje	eldahl	0.070	N/A	0.050		2025-11-19	
pH		7.22	7.0-10.5		pH units	2025-11-14	HT2
Temperature, at pl	H	22.2	N/A		°C	2025-11-14	HT2
Turbidity		0.22	OG < 1	0.10	NTU	2025-11-14	
UV Transmittance	@ 254 nm - Unfiltered	97.9	N/A	0.10	% T	2025-11-15	
UV Transmittance		97.5	N/A		% T	2025-11-15	
Microbiological Pa	rameters						
Coliforms, Total		< 1	MAC = 0	1	CFU/100 mL	2025-11-13	
Background Color	nies	5	N/A		CFU/100 mL	2025-11-13	
E. coli		< 1	MAC = 0		CFU/100 mL	2025-11-13	
Total Metals			-	<u> </u>			
Aluminum, total		0.0071	OG < 0.1	0.0050	mg/L	2025-11-18	
Antimony, total		< 0.00020	MAC = 0.006	0.00020		2025-11-18	
Arsenic, total		< 0.00050	MAC = 0.01	0.00050		2025-11-18	
Barium, total		0.101	MAC = 2	0.0050		2025-11-18	
Boron, total		< 0.0500	MAC = 5	0.0500		2025-11-18	
Cadmium, total		< 0.000010	MAC = 0.007	0.000010		2025-11-18	
Calcium, total		24.6	None Required		mg/L	2025-11-18	



TEST RESULTS

REPORTED TO Wynndel Irrigation District

PROJECT Drinking Water

WORK ORDER

25K1482

REPORTED 2025-11-20 12:36

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Reservoir (25K1482-01) Matrix	: Drinking Water Sample	ed: 2025-11-12 13:00), Continued			
Total Metals, Continued						
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-11-18	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2025-11-18	
Copper, total	0.00420	MAC = 2	0.00040	mg/L	2025-11-18	
Iron, total	0.012	AO ≤ 0.1	0.010	mg/L	2025-11-18	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-11-18	
Magnesium, total	11.6	None Required	0.010	mg/L	2025-11-18	
Manganese, total	0.00067	MAC = 0.12	0.00020	mg/L	2025-11-18	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2025-11-19	
Molybdenum, total	0.00038	N/A	0.00010	mg/L	2025-11-18	
Nickel, total	0.00057	N/A	0.00040	mg/L	2025-11-18	
Potassium, total	1.08	N/A	0.10	mg/L	2025-11-18	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-11-18	
Sodium, total	1.40	AO ≤ 200	0.10	mg/L	2025-11-18	
Strontium, total	0.0474	MAC = 7	0.0010	mg/L	2025-11-18	
Uranium, total	0.000642	MAC = 0.02	0.000020	mg/L	2025-11-18	
Zinc, total	0.0064	AO ≤ 5	0.0040	mg/L	2025-11-18	

Sample Qualifiers:

CT6 Results were based on lab temperature & lab pH.

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



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Wynndel Irrigation District

PROJECT Drinking Water

WORK ORDER

25K1482

REPORTED 2025-11-20 12:36

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Colour, True in Water	SM 2120 C (2021)	Spectrophotometry (456 nm)	✓	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
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
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
Transmittance at 254 nm - Unfiltered in Water	SM 5910 B* (2021)	Ultraviolet Absorption	✓	Kelowna
Transmittance at 254 nm in Water	SM 5910 B* (2021)	Ultraviolet Absorption	✓	Kelowna
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) % T Percent Transmittance

Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors

°C Degrees Celcius AO Aesthetic Objective

CFU/100 mL Colony Forming Units per 100 millilitres

CU Colour Units (referenced against a platinum cobalt standard)

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 $\mu S/cm$ 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 Wynndel Irrigation District

PROJECT Drinking Water

WORK ORDER

25K1482

REPORTED 2025-11-20 12:36

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 <u>not</u> 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: hhannaoui@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.