



### **CERTIFICATE OF ANALYSIS**

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.

**REPORTED TO** Glenmore Ellison Improvement District

> 445 Glenmore Road KELOWNA. BC V1V 1Z6

**ATTENTION** Chris Mackay **WORK ORDER** 22K2086

2022-11-16 11:35 / 9.9°C **PO NUMBER RECEIVED / TEMP** 

**REPORTED** 2022-11-23 15:09 **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 working enjoy with fun and our engaged team the more members; likely you are to give us continued opportunities to support you.

Ahead of the Curve

Through research, regulation 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 bwhitehead@caro.ca

Authorized By:

**Brent Whitehead** Account Manager What



REPORTED TO PROJECT	Glenmore Ellison Impro Drinking Water	ovement District			WORK ORDER REPORTED	22K2086 2022-11-2	3 15:09
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
OK LK Pump STI	N - RAW T/S (22K2086-0	1)   Matrix: Water	Sampled: 2022-11	-16 10:20			
Anions							
Chloride		5.93	AO ≤ 250	0.10	mg/L	2022-11-18	
Fluoride		0.17	MAC = 1.5		mg/L	2022-11-18	
Nitrate (as N)		0.074	MAC = 10	0.010		2022-11-18	
Nitrite (as N)		< 0.010	MAC = 1	0.010		2022-11-18	
Sulfate		31.3	AO ≤ 500		mg/L	2022-11-18	
Calculated Parame	oters	0.1.0	7.10 = 000		··· <del>·9</del> / <del>-</del>		
Hardness, Total (a		124	None Required	0.500	ma/L	N/A	
Langelier Index		-0.3	N/A	-5.0		2022-11-23	CT6
Solids, Total Disso	olved	169	AO ≤ 500		mg/L	N/A	
General Parameter					<u> </u>		
Alkalinity, Total (as		121	N/A	1.0	mg/L	2022-11-20	
	ohthalein (as CaCO3)	< 1.0	N/A		mg/L	2022-11-20	
			N/A		mg/L	2022-11-20	
Alkalinity, Bicarbon		<b>121</b> < 1.0	N/A		mg/L	2022-11-20	
Alkalinity, Hydroxid	· · · · · · · · · · · · · · · · · · ·	< 1.0	N/A		mg/L	2022-11-20	
Carbon, Total Org		3.85	N/A		mg/L	2022-11-20	
	anic				CU		
Colour, True		< 5.0	AO ≤ 15 N/A		μS/cm	2022-11-19	
Conductivity (EC)		< 0.0020	MAC = 0.2		·	2022-11-20	
Cyanide, Total				0.0020			LITO
pH		7.69	7.0-10.5	0.10	pH units	2022-11-20	HT2
Temperature, at p	Н	20.4	N/A	0.40	°C	2022-11-20	HT2
Turbidity		0.38	OG < 1	0.10	NTU	2022-11-18	
Microbiological Pa	rameters						
Coliforms, Total (C	Q-Tray)	2	MAC = 0	1	MPN/100 mL	2022-11-17	
E. coli (Q-Tray)	.,	1	MAC = 0	1	MPN/100 mL	2022-11-17	
Total Metals							
Aluminum, total		< 0.0050	OG < 0.1	0.0050	ma/L	2022-11-19	
Antimony, total		< 0.00020	MAC = 0.006	0.00020		2022-11-19	
Arsenic, total		0.00050	MAC = 0.01	0.00050		2022-11-19	
Barium, total		0.0217	MAC = 2	0.0050		2022-11-19	
Boron, total		< 0.0500	MAC = 5	0.0500		2022-11-19	
Cadmium, total		< 0.000010	MAC = 0.005	0.000010		2022-11-19	
Calcium, total		34.3	None Required		mg/L	2022-11-19	
Chromium, total		< 0.00050	MAC = 0.05	0.00050		2022-11-19	
Cobalt, total		< 0.00010	N/A	0.00010		2022-11-19	
Copper, total		0.00221	MAC = 2	0.00040		2022-11-19	
Iron, total		< 0.010	AO ≤ 0.3	0.010		2022-11-19	
Lead, total		< 0.00020	MAC = 0.005	0.00020		2022-11-19	
Magnesium, total		9.26	None Required	0.010		2022-11-19	
Manganese, total		0.00085	MAC = 0.12	0.00020		2022-11-19	
manganese, wa		0.0000	WIAG = 0.12	0.00020	g/ L	-U-11-13	



REPORTED TO PROJECT	Glenmore Ellison Impro Drinking Water	ovement District			WORK ORDER REPORTED	22K2086 2022-11-2	23 15:09
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
OK LK Pump STN	N - RAW T/S (22K2086-01	l)   Matrix: Water	Sampled: 2022-1	1-16 10:20, Co	ontinued		
Total Metals, Conti	nued						
Mercury, total		< 0.000010	MAC = 0.001	0.000010	mg/L	2022-11-21	
Molybdenum, tota		0.00339	N/A	0.00010	mg/L	2022-11-19	
Nickel, total		< 0.00040	N/A	0.00040	mg/L	2022-11-19	
Potassium, total		2.47	N/A	0.10	mg/L	2022-11-19	
Selenium, total		< 0.00050	MAC = 0.05	0.00050	mg/L	2022-11-19	
Sodium, total		12.0	AO ≤ 200	0.10	mg/L	2022-11-19	
Strontium, total		0.306	MAC = 7	0.0010	mg/L	2022-11-19	
Uranium, total		0.00239	MAC = 0.02	0.000020	mg/L	2022-11-19	
Zinc, total		< 0.0040	AO ≤ 5	0.0040	mg/L	2022-11-19	
Pre-UV (RAW) (22	2K2086-02)   Matrix: Wat	er   Sampled: 202	2-11-16 10:40				
Anions							
Chloride		5.79	AO ≤ 250	0.10	mg/L	2022-11-18	
Fluoride		0.19	MAC = 1.5	0.10	mg/L	2022-11-18	
Nitrate (as N)		0.067	MAC = 10	0.010	mg/L	2022-11-18	
Nitrite (as N)		< 0.010	MAC = 1	0.010	mg/L	2022-11-18	
Sulfate		30.9	AO ≤ 500	1.0	mg/L	2022-11-18	
Calculated Parame	ters						
Hardness, Total (a	s CaCO3)	124	None Required	0.500	mg/L	N/A	
Langelier Index		-0.2	N/A	-5.0		2022-11-23	CT6
Solids, Total Disso	lved	172	AO ≤ 500	1.00	mg/L	N/A	
General Parameter	s						
Alkalinity, Total (as	CaCO3)	126	N/A	1.0	mg/L	2022-11-20	
	hthalein (as CaCO3)	< 1.0	N/A		mg/L	2022-11-20	
Alkalinity, Bicarbor	· · · · · · · · · · · · · · · · · · ·	126	N/A		mg/L	2022-11-20	
Alkalinity, Carbona	ate (as CaCO3)	< 1.0	N/A		mg/L	2022-11-20	
Alkalinity, Hydroxid	de (as CaCO3)	< 1.0	N/A	1.0	mg/L	2022-11-20	
Carbon, Total Orga	anic	4.00	N/A	0.50	mg/L	2022-11-18	
Colour, True		< 5.0	AO ≤ 15	5.0	CU	2022-11-19	
Conductivity (EC)		283	N/A	2.0	μS/cm	2022-11-20	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	mg/L	2022-11-21	
рН		7.72	7.0-10.5	0.10	pH units	2022-11-20	HT2
Temperature, at pl	Η	20.5	N/A		°C	2022-11-20	HT2
Turbidity		0.17	OG < 1	0.10	NTU	2022-11-18	
Microbiological Pa	rameters						
Coliforms, Total (C	Q-Tray)	1	MAC = 0	1	MPN/100 mL	2022-11-17	
E. coli (Q-Tray)		< 1	MAC = 0	1	MPN/100 mL	2022-11-17	
Total Metals							
Aluminum, total		< 0.0050	OG < 0.1	0.0050	mg/L	2022-11-19	
	_						Page 3 of 7



REPORTED TO	Glenmore Ellison Improvement District	WORK ORDER	22K2086
PROJECT	Drinking Water	REPORTED	2022-11-23 15:09

Analyte	Result	Guideline	RL	Units	Analyzed	Qualif
Pre-UV (RAW) (22K2086-02)   Matrix: Wa	ter   Sampled: 202	22-11-16 10:40, Con	tinued			
Fotal Metals, Continued						
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2022-11-19	
Arsenic, total	0.00052	MAC = 0.01	0.00050	mg/L	2022-11-19	
Barium, total	0.0212	MAC = 2	0.0050	mg/L	2022-11-19	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-11-19	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2022-11-19	
Calcium, total	34.5	None Required	0.20	mg/L	2022-11-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-11-19	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2022-11-19	
Copper, total	0.00112	MAC = 2	0.00040	mg/L	2022-11-19	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2022-11-19	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-11-19	
Magnesium, total	9.22	None Required	0.010	mg/L	2022-11-19	
Manganese, total	0.00079	MAC = 0.12	0.00020	mg/L	2022-11-19	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2022-11-21	
Molybdenum, total	0.00342	N/A	0.00010	mg/L	2022-11-19	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2022-11-19	
Potassium, total	2.52	N/A		mg/L	2022-11-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2022-11-19	
Sodium, total	12.2	AO ≤ 200		mg/L	2022-11-19	
Strontium, total	0.299	MAC = 7	0.0010		2022-11-19	
,						
Uranium, total	0.00239	MAC = 0.02	0.000020	mg/L	2022-11-19	
Uranium, total Zinc, total	< 0.0040	MAC = 0.02 AO ≤ 5	0.000020 0.0040		2022-11-19 2022-11-19	
Uranium, total Zinc, total Clearwell Outflow (22K2086-03)   Matrix:	< 0.0040  Water   Sampled:	AO ≤ 5 2022-11-16 10:50	0.0040	mg/L	2022-11-19	
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix:  Anions Chloride	< 0.0040  Water   Sampled:	AO ≤ 5  2022-11-16 10:50  AO ≤ 250	0.0040	mg/L	2022-11-19	
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix:  Anions Chloride Fluoride	< 0.0040  Water   Sampled:  8.79  0.14	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5	0.0040 0.10 0.10	mg/L mg/L mg/L	2022-11-19 2022-11-18 2022-11-18	
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix: Anions Chloride Fluoride Nitrate (as N)	< 0.0040  Water   Sampled:  8.79  0.14  0.068	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10	0.0040 0.10 0.10 0.010	mg/L mg/L mg/L mg/L	2022-11-19 2022-11-18 2022-11-18 2022-11-18	
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix: unions Chloride Fluoride Nitrate (as N) Nitrite (as N)	< 0.0040  Water   Sampled:  8.79  0.14  0.068  < 0.010	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1	0.0040 0.10 0.10 0.010 0.010	mg/L mg/L mg/L mg/L mg/L	2022-11-18 2022-11-18 2022-11-18 2022-11-18 2022-11-18	
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix:  Anions Chloride Fluoride	< 0.0040  Water   Sampled:  8.79  0.14  0.068	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10	0.0040 0.10 0.10 0.010 0.010	mg/L mg/L mg/L mg/L	2022-11-19 2022-11-18 2022-11-18 2022-11-18	
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix: Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	< 0.0040  Water   Sampled:  8.79  0.14  0.068  < 0.010	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1	0.0040 0.10 0.10 0.010 0.010	mg/L mg/L mg/L mg/L mg/L	2022-11-18 2022-11-18 2022-11-18 2022-11-18 2022-11-18	
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix: Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	< 0.0040  Water   Sampled:  8.79  0.14  0.068  < 0.010	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1	0.0040 0.10 0.10 0.010 0.010	mg/L mg/L mg/L mg/L mg/L mg/L	2022-11-18 2022-11-18 2022-11-18 2022-11-18 2022-11-18	
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix: Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate  Calculated Parameters	< 0.0040  Water   Sampled:  8.79  0.14  0.068  < 0.010  31.3	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500	0.0040 0.10 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L mg/L mg/L	2022-11-19 2022-11-18 2022-11-18 2022-11-18 2022-11-18 2022-11-18	СТ
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix:  Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3)	< 0.0040  Water   Sampled:  8.79  0.14  0.068  < 0.010  31.3	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0	mg/L mg/L mg/L mg/L mg/L mg/L	2022-11-19 2022-11-18 2022-11-18 2022-11-18 2022-11-18 2022-11-18	СТ
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix:  Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	< 0.0040  Water   Sampled:  8.79  0.14  0.068  < 0.010  31.3	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0	mg/L mg/L mg/L mg/L mg/L mg/L	2022-11-19  2022-11-18  2022-11-18  2022-11-18  2022-11-18  N/A  2022-11-23	CT
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix:  Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	< 0.0040  Water   Sampled:  8.79  0.14  0.068  < 0.010  31.3	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L	2022-11-19  2022-11-18  2022-11-18  2022-11-18  2022-11-18  N/A  2022-11-23	CT
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix: Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters	< 0.0040  Water   Sampled:  8.79  0.14  0.068  < 0.010  31.3  124  -0.3  171	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A  AO ≤ 500	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L	2022-11-19  2022-11-18 2022-11-18 2022-11-18 2022-11-18 N/A 2022-11-23 N/A	CT
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix: Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate  Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved  General Parameters Alkalinity, Total (as CaCO3)	< 0.0040  Water   Sampled:  8.79  0.14  0.068  < 0.010  31.3  124  -0.3  171	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A  AO ≤ 500  N/A	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2022-11-19  2022-11-18 2022-11-18 2022-11-18 2022-11-18 2022-11-18  N/A 2022-11-23 N/A	СТ
Uranium, total Zinc, total  Clearwell Outflow (22K2086-03)   Matrix:  Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate  Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved  General Parameters  Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3)	< 0.0040  Water   Sampled:  8.79  0.14  0.068 < 0.010  31.3  124  -0.3  171  118 < 1.0	AO ≤ 5  2022-11-16 10:50  AO ≤ 250  MAC = 1.5  MAC = 10  MAC = 1  AO ≤ 500  None Required  N/A  AO ≤ 500  N/A  N/A	0.0040 0.10 0.010 0.010 1.0 0.500 -5.0 1.00 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2022-11-19  2022-11-18  2022-11-18  2022-11-18  2022-11-18  N/A  2022-11-23  N/A  2022-11-20  2022-11-20	CTI



REPORTED TO Glenmore Ellison Improvement District WORK ORDER 22K2086

PROJECT Drinking Water REPORTED 2022-11-23 15:09

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Clearwell Outflow (22K2086-03)   Ma	atrix: Water   Sampled	2022-11-16 10:50,	Continued			
General Parameters, Continued						
Carbon, Total Organic	4.32	N/A	0.50	mg/L	2022-11-18	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2022-11-19	
Conductivity (EC)	285	N/A	2.0	μS/cm	2022-11-20	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2022-11-21	
pH	7.70	7.0-10.5	0.10	pH units	2022-11-20	HT2
Temperature, at pH	20.6	N/A		°C	2022-11-20	HT2
Turbidity	0.20	OG < 1	0.10	NTU	2022-11-18	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2022-11-17	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2022-11-17	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2022-11-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2022-11-19	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2022-11-19	
Barium, total	0.0214	MAC = 2	0.0050	mg/L	2022-11-19	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2022-11-19	
Cadmium, total	< 0.000010	MAC = 0.005	0.000010	mg/L	2022-11-19	
Calcium, total	34.4	None Required	0.20	mg/L	2022-11-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-11-19	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2022-11-19	
Copper, total	0.00167	MAC = 2	0.00040	mg/L	2022-11-19	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2022-11-19	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2022-11-19	
Magnesium, total	9.34	None Required	0.010	mg/L	2022-11-19	
Manganese, total	0.00076	MAC = 0.12	0.00020	mg/L	2022-11-19	
Mercury, total	< 0.000010	MAC = 0.001	0.000010	mg/L	2022-11-21	
Molybdenum, total	0.00341	N/A	0.00010	mg/L	2022-11-19	
Nickel, total	0.00045	N/A	0.00040	mg/L	2022-11-19	
Potassium, total	2.55	N/A	0.10	mg/L	2022-11-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2022-11-19	
Sodium, total	12.3	AO ≤ 200	0.10	mg/L	2022-11-19	
Strontium, total	0.305	MAC = 7	0.0010	mg/L	2022-11-19	
Uranium, total	0.00242	MAC = 0.02	0.000020	mg/L	2022-11-19	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2022-11-19	

#### 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 Glenmore Ellison Improvement District

PROJECT Drinking Water

WORK ORDER

22K2086

**REPORTED** 2022-11-23 15:09

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
Carbon, Total Organic in Water	SM 5310 B (2017)	Combustion, Infrared CO2 Detection	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2017)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Colour, True in Water	SM 2120 C (2017)	Spectrophotometry (456 nm)	✓	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
Langelier Index in Water	SM 2330 B (2017)	Calculation		N/A
Mercury, total in Water	EPA 245.7*	BrCl2 Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
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

°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

MPN/100 mL Most Probable Number per 100 millilitres

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** Glenmore Ellison Improvement District

PROJECT Drinking Water

WORK ORDER REPORTED 22K2086

2022-11-23 15:09

#### **General Comments:**

The results in this report apply to the received 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 <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:bwhitehead@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.