



CERTIFICATE OF ANALYSIS

REPORTED TO Black Mountain Irrigation District
285 Gray Avenue
KELOWNA, BC V1X 1W8

ATTENTION Bryan Vig

PO NUMBER
PROJECT Screen Works/ Chemistry
PROJECT INFO

WORK ORDER 26A0106

RECEIVED / TEMP 2026-01-05 15:07 / 12.1°C
REPORTED 2026-01-12 16:28
COC NUMBER No Number

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Big Picture Sidekicks



We've Got Chemistry



Ahead of the Curve



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.

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

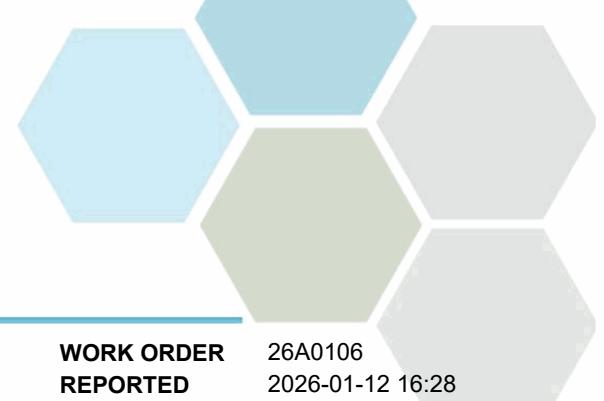
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TEST RESULTS

REPORTED TO Black Mountain Irrigation District
PROJECT Screen Works/ Chemistry

WORK ORDER 26A0106
REPORTED 2026-01-12 16:28

Analyte	Result	RL	Units	Analyzed	Qualifier
Screenworks (26A0106-01) Matrix: Water Sampled: 2026-01-05 10:04					
Field Parameters					
Chlorine, Free	3.03	0.02	mg/L	2026-01-05	
Temperature, field	4.2		°C	2026-01-05	
General Parameters					
Alkalinity, Total (as CaCO ₃)	62.1	1.0	mg/L	2026-01-07	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0	mg/L	2026-01-07	
Alkalinity, Bicarbonate (as CaCO ₃)	62.1	1.0	mg/L	2026-01-07	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0	mg/L	2026-01-07	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0	mg/L	2026-01-07	
Carbon, Total Organic	3.59	0.50	mg/L	2026-01-07	
Colour, True	< 5.0	5.0	CU	2026-01-06	
Conductivity (EC)	177	2.0	µS/cm	2026-01-07	
pH	7.72	0.10	pH units	2026-01-07	HT2
Turbidity	0.46	0.10	NTU	2026-01-06	
UV Transmittance @ 254nm	82.0	0.10	% T	2026-01-06	

Stevens Inlet (26A0106-02) | Matrix: Water | Sampled: 2026-01-05 09:40

Field Parameters					
Temperature, field	6.1		°C	2026-01-05	
General Parameters					
Carbon, Total Organic	3.54	0.50	mg/L	2026-01-07	

Pearson School (26A0106-03) | Matrix: Water | Sampled: 2026-01-05 08:15

Anions					
Chloride	9.02	0.10	mg/L	2026-01-06	
Fluoride	< 0.10	0.10	mg/L	2026-01-06	
Nitrate (as N)	0.033	0.010	mg/L	2026-01-06	
Nitrite (as N)	< 0.010	0.010	mg/L	2026-01-06	
Sulfate	10.0	1.0	mg/L	2026-01-06	
Calculated Parameters					
Hardness, Total (as CaCO ₃)	72.5	0.500	mg/L	N/A	
Langelier Index	-1.0	-5.0		2026-01-08	CT6
Solids, Total Dissolved	86.8	1.00	mg/L	N/A	
Field Parameters					
Chlorine, Free	0.81	0.02	mg/L	2026-01-05	
Temperature, field	9.4		°C	2026-01-05	
General Parameters					
Alkalinity, Total (as CaCO ₃)	58.3	1.0	mg/L	2026-01-07	



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Analyte	Result	RL	Units	Analyzed	Qualifier
Pearson School (26A0106-03) Matrix: Water Sampled: 2026-01-05 08:15, Continued					
<i>General Parameters, Continued</i>					
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0	mg/L	2026-01-07	
Alkalinity, Bicarbonate (as CaCO ₃)	58.3	1.0	mg/L	2026-01-07	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0	mg/L	2026-01-07	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0	mg/L	2026-01-07	
Colour, True	< 5.0	5.0	CU	2026-01-06	
Conductivity (EC)	176	2.0	µS/cm	2026-01-07	
Cyanide, Total	< 0.0020	0.0020	mg/L	2026-01-08	
pH	7.72	0.10	pH units	2026-01-07	HT2
Temperature, at pH	22.7		°C	2026-01-07	HT2
Turbidity	0.55	0.10	NTU	2026-01-06	
<i>Total Metals</i>					
Aluminum, total	0.0546	0.0050	mg/L	2026-01-07	
Antimony, total	< 0.00020	0.00020	mg/L	2026-01-07	
Arsenic, total	< 0.00050	0.00050	mg/L	2026-01-07	
Barium, total	0.0132	0.0050	mg/L	2026-01-07	
Boron, total	< 0.0500	0.0500	mg/L	2026-01-07	
Cadmium, total	< 0.000010	0.000010	mg/L	2026-01-07	
Calcium, total	20.5	0.20	mg/L	2026-01-07	
Chromium, total	< 0.00050	0.00050	mg/L	2026-01-07	
Cobalt, total	< 0.00010	0.00010	mg/L	2026-01-07	
Copper, total	0.00186	0.00040	mg/L	2026-01-07	
Iron, total	0.073	0.010	mg/L	2026-01-07	
Lead, total	< 0.00020	0.00020	mg/L	2026-01-07	
Magnesium, total	5.18	0.010	mg/L	2026-01-07	
Manganese, total	0.00615	0.00020	mg/L	2026-01-07	
Mercury, total	< 0.000010	0.000010	mg/L	2026-01-07	
Molybdenum, total	0.00090	0.00010	mg/L	2026-01-07	
Nickel, total	0.00044	0.00040	mg/L	2026-01-07	
Potassium, total	0.91	0.10	mg/L	2026-01-07	
Selenium, total	< 0.00050	0.00050	mg/L	2026-01-07	
Sodium, total	5.54	0.10	mg/L	2026-01-07	
Strontium, total	0.108	0.0010	mg/L	2026-01-07	
Uranium, total	0.000424	0.000020	mg/L	2026-01-07	
Zinc, total	< 0.0040	0.0040	mg/L	2026-01-07	

Well # 4 (26A0106-04) | Matrix: Water | Sampled: 2026-01-05 11:33

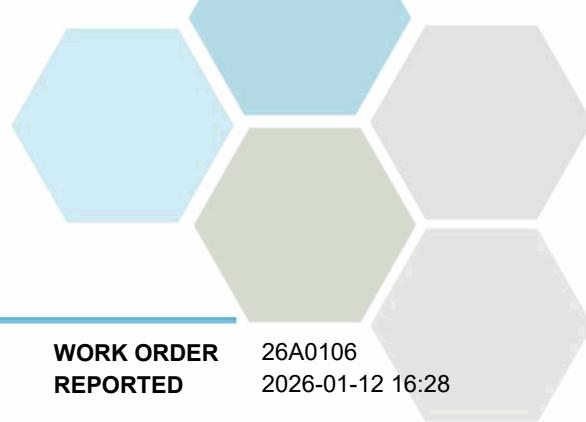
Anions

Chloride	9.02	0.10	mg/L	2026-01-06
Fluoride	< 0.10	0.10	mg/L	2026-01-06
Nitrate (as N)	1.55	0.010	mg/L	2026-01-06
Nitrite (as N)	< 0.010	0.010	mg/L	2026-01-06



TEST RESULTS

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Analyte	Result	RL	Units
Well # 4 (26A0106-04) Matrix: Water Sampled: 2026-01-05 11:33, Continued			
Anions, Continued			
Sulfate	23.8	1.0	mg/L
Calculated Parameters			
Hardness, Total (as CaCO ₃)	216	0.500	mg/L
Langelier Index	0.3	-5.0	2026-01-08
Solids, Total Dissolved	246	1.00	mg/L
Field Parameters			
Chlorine, Free	0.35	0.02	mg/L
Temperature, field	7.3	°C	2026-01-05
General Parameters			
Alkalinity, Total (as CaCO ₃)	190	1.0	mg/L
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	1.0	mg/L
Alkalinity, Bicarbonate (as CaCO ₃)	190	1.0	mg/L
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	1.0	mg/L
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	1.0	mg/L
Colour, True	< 5.0	5.0	CU
Conductivity (EC)	454	2.0	µS/cm
Cyanide, Total	< 0.0020	0.0020	mg/L
pH	8.07	0.10	pH units
Temperature, at pH	22.9	°C	2026-01-07
Turbidity	0.24	0.10	NTU
Total Metals			
Aluminum, total	< 0.0050	0.0050	mg/L
Antimony, total	< 0.00020	0.00020	mg/L
Arsenic, total	< 0.00050	0.00050	mg/L
Barium, total	0.0128	0.0050	mg/L
Boron, total	< 0.0500	0.0500	mg/L
Cadmium, total	< 0.000010	0.000010	mg/L
Calcium, total	65.8	0.20	mg/L
Chromium, total	< 0.00050	0.00050	mg/L
Cobalt, total	< 0.00010	0.00010	mg/L
Copper, total	0.00260	0.00040	mg/L
Iron, total	0.057	0.010	mg/L
Lead, total	0.00029	0.00020	mg/L
Magnesium, total	12.4	0.010	mg/L
Manganese, total	0.00207	0.00020	mg/L
Mercury, total	< 0.000010	0.000010	mg/L
Molybdenum, total	0.00135	0.00010	mg/L
Nickel, total	< 0.00040	0.00040	mg/L
Potassium, total	1.81	0.10	mg/L
Selenium, total	< 0.00050	0.00050	mg/L



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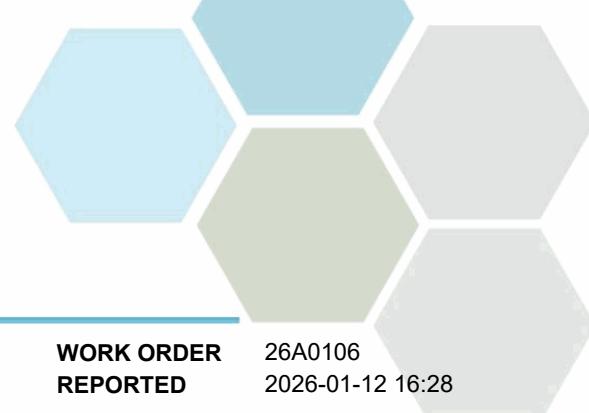
WORK ORDER 26A0106
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Analyte	Result	RL	Units	Analyzed	Qualifier
Well # 4 (26A0106-04) Matrix: Water Sampled: 2026-01-05 11:33, Continued					
Total Metals, Continued					
Sodium, total	10.5		0.10	mg/L	2026-01-07
Strontium, total	0.278		0.0010	mg/L	2026-01-07
Uranium, total	0.000843		0.000020	mg/L	2026-01-07
Zinc, total	0.0055		0.0040	mg/L	2026-01-07

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

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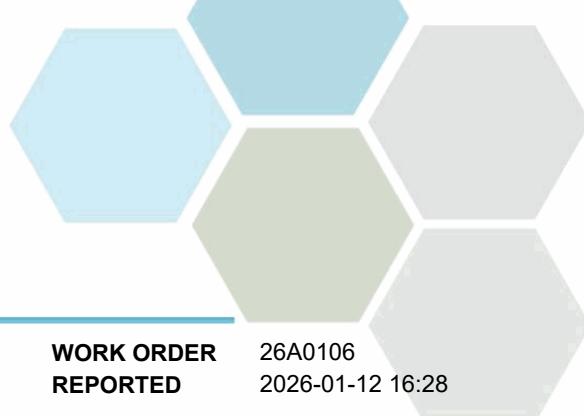
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Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO ₂ Detection	✓	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
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*	BrCl ₂ Oxidation / Cold Vapor Atomic Fluorescence Spectrometry (CVAFS)	✓	Richmond
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
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 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
CU	Colour Units (referenced against a platinum cobalt standard)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
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:

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