



CERTIFICATE OF ANALYSIS

REPORTED TOBlack Mountain 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

(whew) is VERY important. We know that too.

285 Gray Avenue

KELOWNA. BC V1X 1W8

ATTENTION Robert Hrasko WORK ORDER 22H0178

PO NUMBER RECEIVED / TEMP 2022-08-02 12:33 / 15.1°C

PROJECT Screen Works/ Chemistry REPORTED 2022-08-10 15:30

PROJECT INFO 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

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.

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

decisions

Authorized By:

Brent Whitehead Account Manager A what



TEST RESULTS

REPORTED TO Black Mountain Irriga PROJECT Screen Works/ Chem	tion District istry		WORK ORDER REPORTED	22H0178 2022-08-10 15:30	
Analyte	Result	RL	Units	Analyzed	Qualifier
Screen Works (22H0178-01) Matrix: Wa	ater Sampled: 2022-08-02 07	:39			
General Parameters					
Alkalinity, Total (as CaCO3)	45.6	1.0	mg/L	2022-08-07	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0		mg/L	2022-08-07	
Alkalinity, Bicarbonate (as CaCO3)	45.6		mg/L	2022-08-07	
Alkalinity, Carbonate (as CaCO3)	< 1.0		mg/L	2022-08-07	
Alkalinity, Hydroxide (as CaCO3)	< 1.0		mg/L	2022-08-07	
Carbon, Total Organic	2.37		mg/L	2022-08-08	
Colour, True	< 5.0		CU	2022-08-07	HT1
Conductivity (EC)	123		μS/cm	2022-08-07	
pH	7.33		pH units	2022-08-07	HT2
Turbidity	0.36		NTU	2022-08-05	
UV Transmittance @ 254nm	91.0	0.10	% T	2022-08-04	
General Parameters					
General Parameters					
Carbon, Total Organic	4.73 Water Sampled: 2022-08-02 (mg/L	2022-08-08	F2
			mg/L	2022-08-08	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: \		09:56	mg/L	2022-08-08	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: N	Water Sampled: 2022-08-02 (0.10 0.10	mg/L mg/L		F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations Chloride	Water Sampled: 2022-08-02 (09:56	mg/L mg/L	2022-08-03	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations Chloride Fluoride	Water Sampled: 2022-08-02 (0.10 0.10	mg/L mg/L mg/L	2022-08-03 2022-08-03	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations Chloride Fluoride Nitrate (as N)	Mater Sampled: 2022-08-02 (12.9 < 0.10 < 0.010	0.10 0.10 0.010 0.010 0.010	mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	12.9 < 0.10 < 0.010 < 0.010	0.10 0.10 0.010 0.010 0.010	mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	12.9 < 0.10 < 0.010 < 0.010 4.4	0.10 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3)	12.9 < 0.10 < 0.010 < 0.010 4.4	0.10 0.10 0.010 0.010 0.010	mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	12.9 < 0.10 < 0.010 < 0.010 4.4	0.10 0.10 0.010 0.010 1.0 0.500 -5.0	mg/L mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	12.9 < 0.10 < 0.010 < 0.010 4.4 45.0 -1.5	0.10 0.10 0.010 0.010 1.0 0.500 -5.0	mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters	12.9 < 0.10 < 0.010 < 0.010 4.4 45.0 -1.5 68.2	0.10 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	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations 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)	### Nater Sampled: 2022-08-02 (**) 12.9 < 0.10 < 0.010 < 0.010 4.4 45.0 -1.5 68.2 44.8	0.10 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	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations 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)	12.9 < 0.10 < 0.010 < 0.010 4.4 45.0 -1.5 68.2 44.8 < 1.0	0.10 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 mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A 2022-08-07 2022-08-07	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nanions 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) Alkalinity, Bicarbonate (as CaCO3)	12.9 < 0.10 < 0.010 < 0.010 4.4 45.0 -1.5 68.2 44.8 < 1.0 44.8	0.10 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 mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A 2022-08-07 2022-08-07 2022-08-07	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations 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) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Carbonate (as CaCO3)	12.9 < 0.10 < 0.010 < 0.010 4.4 45.0 -1.5 68.2 44.8 < 1.0 44.8 < 1.0	0.10 0.10 0.010 0.010 1.0 0.500 -5.0 1.00 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A 2022-08-07 2022-08-07 2022-08-07 2022-08-07	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations 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) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Carbonate (as CaCO3) Alkalinity, Hydroxide (as CaCO3)	12.9 < 0.10 < 0.010 < 0.010 4.4 45.0 -1.5 68.2 44.8 < 1.0 44.8 < 1.0 < 1.0 < 1.0	0.10 0.10 0.010 0.010 0.010 1.0 1.	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07	
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations 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) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Hydroxide (as CaCO3) Colour, True	### Nampled: 2022-08-02 (**) 12.9 < 0.10 < 0.010 < 0.010 4.4 45.0 -1.5 68.2 44.8 < 1.0 44.8 < 1.0 < 1.0 < 5.0	0.10 0.10 0.010 0.010 1.0 0.500 -5.0 1.00 1.0 1.0 1.0 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07	F2
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations 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) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Hydroxide (as CaCO3) Colour, True Conductivity (EC)	### Nampled: 2022-08-02 (**) 12.9 < 0.10 < 0.010 < 0.010 4.4 45.0 -1.5 68.2 44.8 < 1.0 44.8 < 1.0 < 1.0 < 5.0 124	0.10 0.10 0.010 0.010 0.010 1.0 0.500 -5.0 1.00 1.0 1.0 5.0 2.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07	
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations 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) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Hydroxide (as CaCO3) Colour, True Conductivity (EC) Cyanide, Total	### Table ### Ta	0.10 0.10 0.010 0.010 1.0 0.500 -5.0 1.00 1.0 1.0 1.0 1.0 2.0 0.0020	mg/L mg/L mg/L mg/L mg/L mg/L mg/L cu mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07	HT1
Carbon, Total Organic Pearson School (22H0178-03) Matrix: Nations 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) Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Hydroxide (as CaCO3) Colour, True Conductivity (EC)	### Nampled: 2022-08-02 (**) 12.9 < 0.10 < 0.010 < 0.010 4.4 45.0 -1.5 68.2 44.8 < 1.0 44.8 < 1.0 < 1.0 < 5.0 124	0.10 0.10 0.010 0.010 1.0 0.500 -5.0 1.00 1.0 1.0 1.0 1.0 2.0 0.0020	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07 2022-08-07	



TEST RESULTS

REPORTED TOBlack Mountain Irrigation DistrictWORK ORDER22H0178PROJECTScreen Works/ ChemistryREPORTED2022-08-10 15:30

Analyte	Result	RL	Units	Analyzed	Qualifie
Pearson School (22H0178-03) Matrix: W	/ater Sampled: 2022-08-02	2 09:56, Continued			F2
Total Metals					
Aluminum, total	0.217	0.0050	mg/L	2022-08-08	
Antimony, total	< 0.00020	0.00020	mg/L	2022-08-08	
Arsenic, total	< 0.00050	0.00050	mg/L	2022-08-08	
Barium, total	0.0100	0.0050	mg/L	2022-08-08	
Boron, total	< 0.0500	0.0500	mg/L	2022-08-08	
Cadmium, total	< 0.000010	0.000010	mg/L	2022-08-08	
Calcium, total	13.4	0.20	mg/L	2022-08-08	
Chromium, total	< 0.00050	0.00050	mg/L	2022-08-08	
Cobalt, total	< 0.00010	0.00010	mg/L	2022-08-08	
Copper, total	0.00170	0.00040	mg/L	2022-08-08	
Iron, total	0.010	0.010	mg/L	2022-08-08	
Lead, total	< 0.00020	0.00020	mg/L	2022-08-08	
Magnesium, total	2.78	0.010	mg/L	2022-08-08	
Manganese, total	0.00419	0.00020	mg/L	2022-08-08	
Mercury, total	< 0.000040	0.000040	mg/L	2022-08-08	HG1
Molybdenum, total	0.00079	0.00010	mg/L	2022-08-08	
Nickel, total	< 0.00040	0.00040		2022-08-08	
Potassium, total	0.99		mg/L	2022-08-08	
Selenium, total	< 0.00050	0.00050	mg/L	2022-08-08	
Sodium, total	6.37		mg/L	2022-08-08	
Strontium, total	0.0746	0.0010		2022-08-08	
Uranium, total	0.000061	0.000020	mg/L	2022-08-08	
7' ' ' ' '	< 0.0040	0.0040	mg/L	2022-08-08	
Zinc, total					
·					5 0
Nell #5 (22H0178-04) Matrix: Water Sa	mpled: 2022-08-02 11:30				F2
Well #5 (22H0178-04) Matrix: Water Sa		0.40	mg/l	2022 08 03	F2
Nell #5 (22H0178-04) Matrix: Water Sa Anions Chloride	17.5		mg/L	2022-08-03	F2
Nell #5 (22H0178-04) Matrix: Water Sa Anions Chloride Fluoride	17.5 0.10	0.10	mg/L	2022-08-03	F2
Nell #5 (22H0178-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N)	17.5 0.10 6.29	0.10 0.010	mg/L mg/L	2022-08-03 2022-08-03	F2
Nell #5 (22H0178-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N)	17.5 0.10 6.29 < 0.010	0.10 0.010 0.010	mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03	F2
Nell #5 (22H0178-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	17.5 0.10 6.29	0.10 0.010 0.010	mg/L mg/L	2022-08-03 2022-08-03	F2
Nell #5 (22H0178-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	17.5 0.10 6.29 < 0.010 27.9	0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03	F2
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3)	17.5 0.10 6.29 < 0.010 27.9	0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A	F2
Well #5 (22H0178-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index	17.5 0.10 6.29 < 0.010 27.9	0.10 0.010 0.010 1.0 0.500 -5.0	mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10	F2
Well #5 (22H0178-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	17.5 0.10 6.29 < 0.010 27.9	0.10 0.010 0.010 1.0 0.500 -5.0	mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A	F2
Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters	17.5 0.10 6.29 < 0.010 27.9 265 0.7 330	0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A	F2
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)	17.5 0.10 6.29 < 0.010 27.9 265 0.7 330	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	2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A	F2
Mell #5 (22H0178-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters	17.5 0.10 6.29 < 0.010 27.9 265 0.7 330	0.10 0.010 0.010 1.0 0.500 -5.0 1.00	mg/L mg/L mg/L mg/L mg/L	2022-08-03 2022-08-03 2022-08-03 2022-08-03 N/A 2022-08-10 N/A	F2



TEST RESULTS

REPORTED TO Black Mountain Irrigation District

PROJECT Screen Works/ Chemistry

WORK ORDER REPORTED 22H0178

2022-08-10 15:30

Analyte	Result	RL	Units	Analyzed	Qualific	
Well #5 (22H0178-04) Matrix: Water Sampled: 2022-08-02 11:30, Continued					F2	
General Parameters, Continued						
Alkalinity, Hydroxide (as CaCO3)	< 1.0	1.0	mg/L	2022-08-08		
Colour, True	< 5.0	5.0	CU	2022-08-08	HT1	
Conductivity (EC)	554	2.0	μS/cm	2022-08-08		
Cyanide, Total	< 0.0020	0.0020	mg/L	2022-08-04		
pH	8.10	0.10	pH units	2022-08-08	HT2	
Temperature, at pH	23.7		°C	2022-08-08	HT2	
Turbidity	< 0.10	0.10	NTU	2022-08-05		
Total Metals						
Aluminum, total	0.0055	0.0050	mg/L	2022-08-08		
Antimony, total	< 0.00020	0.00020	mg/L	2022-08-08		
Arsenic, total	< 0.00050	0.00050	mg/L	2022-08-08		
Barium, total	0.0223	0.0050	mg/L	2022-08-08		
Boron, total	< 0.0500	0.0500	mg/L	2022-08-08		
Cadmium, total	< 0.000010	0.000010	mg/L	2022-08-08		
Calcium, total	79.9	0.20	mg/L	2022-08-08		
Chromium, total	0.00060	0.00050	mg/L	2022-08-08		
Cobalt, total	< 0.00010	0.00010	mg/L	2022-08-08		
Copper, total	0.00400	0.00040	mg/L	2022-08-08		
Iron, total	< 0.010	0.010	mg/L	2022-08-08		
Lead, total	0.00021	0.00020	mg/L	2022-08-08		
Magnesium, total	16.0	0.010	mg/L	2022-08-08		
Manganese, total	< 0.00020	0.00020	mg/L	2022-08-08		
Mercury, total	< 0.000040	0.000040	mg/L	2022-08-08	HG1	
Molybdenum, total	0.00198	0.00010	mg/L	2022-08-08		
Nickel, total	< 0.00040	0.00040	mg/L	2022-08-08		
Potassium, total	2.25	0.10	mg/L	2022-08-08		
Selenium, total	0.00144	0.00050	mg/L	2022-08-08		
Sodium, total	12.3	0.10	mg/L	2022-08-08		
Strontium, total	0.347	0.0010	mg/L	2022-08-08		
Uranium, total	0.00280	0.000020	mg/L	2022-08-08		
Zinc, total	0.0059	0.0040	mg/L	2022-08-08		

Sample Qualifiers:

- F2 The sample was not field-preserved with HNO3 and was therefore preserved in the laboratory and held for at least 16 hours prior to analysis for total metals.
- HG1 Sample bottle and preservation submitted is not suitable for Mercury analysis and analyte stability may be affected.
- HT1 The sample was prepared and/or analyzed past the recommended holding time.
- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded field analysis is recommended.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Black Mountain Irrigation District

PROJECT Screen Works/ Chemistry

WORK ORDER REPORTED 22H0178

TED 2022-08-10 15:30

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
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
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
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
Transmittance at 254 nm in Water	SM 5910 B* (2017)	Ultraviolet Absorption	✓	Kelowna
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) % 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 μ 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

Black Mountain Irrigation District **REPORTED TO PROJECT**

Screen Works/ Chemistry

WORK ORDER REPORTED

22H0178

2022-08-10 15:30

General Comments:

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