

ANNUAL WATER SYSTEM REPORT

Drinking Water – General Potability Reports - Wells – CARO Analytical

2023





Osoyoos, Town of **REPORTED TO**

PO Box 3010

OSOYOOS, BC V0H 1V0

ATTENTION

Mike Lange

PO NUMBER PROJECT

Drinking Water

PROJECT INFO

General Potability

WORK ORDER

23A2398

RECEIVED / TEMP REPORTED

COC NUMBER

2023-01-24 16:30 / 6.5°C

2023-01-29 14:32

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



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.

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.

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	Osoyoos, Town of	WORK ORDER	23A2398
PROJECT	General Potability	REPORTED	2023-01-29 14:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #3 - Chemistry (23A2398-01) Matrix	c: Water Sample	d: 2023-01-24 10:55				
Anions						
Chloride	20.2	AO ≤ 250	0.10	mg/L	2023-01-25	
Fluoride	0.39	MAC = 1.5	0.10	mg/L	2023-01-25	
Nitrate (as N)	3.27	MAC = 10	0.010	mg/L	2023-01-25	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-01-25	
Sulfate	212	AO ≤ 500	1.0	mg/L	2023-01-25	RE2
Calculated Parameters						
Hardness, Total (as CaCO3)	318	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	449	AO ≤ 500	10.0	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	92.7	N/A	1.0	mg/L	2023-01-27	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-01-27	
Alkalinity, Bicarbonate (as CaCO3)	92.7	N/A		mg/L	2023-01-27	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0		2023-01-27	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-01-27	
Conductivity (EC)	721	N/A	2.0		2023-01-27	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	•	2023-01-25	
pH	6.55	7.0-10.5	0.10		2023-01-27	HT2
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-01-25	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-01-29	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2023-01-29	
Arsenic, total	0.00144	MAC = 0.01	0.00050		2023-01-29	
Barium, total	0.0878	MAC = 2	0.0050		2023-01-29	
Boron, total	0.0605	MAC = 5	0.0500		2023-01-29	
Cadmium, total	0.000033	MAC = 0.007	0.000010		2023-01-29	
Calcium, total	87.8	None Required		mg/L	2023-01-29	
Chromium, total	0.00108	MAC = 0.05	0.00050		2023-01-29	
Copper, total	0.00599	MAC = 2	0.00040		2023-01-29	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-01-29	
Lead, total	0.00021	MAC = 0.005	0.00020		2023-01-29	
Magnesium, total	23.9	None Required	0.010		2023-01-29	
Manganese, total	0.0412	MAC = 0.12	0.00020		2023-01-29	
Potassium, total	7.01	N/A		mg/L	2023-01-29	
Selenium, total	0.00171	MAC = 0.05	0.00050		2023-01-29	
Sodium, total	26.5	AO ≤ 200		mg/L	2023-01-29	
Strontium, total	1.00	MAC = 7	0.0010		2023-01-29	
Uranium, total	0.0114	MAC = 0.02	0.000020		2023-01-29	
Zinc, total	0.0045	AO ≤ 5	0.0040		2023-01-29	

Well #1 - Chemistry (23A2398-02) | Matrix: Water | Sampled: 2023-01-24 11:20



REPORTED TO	Osoyoos, Town of	WORK ORDER	23A2398
PROJECT	General Potability	REPORTED	2023-01-29 14:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie			
Well #1 - Chemistry (23A2398-02) Matrix: Water Sampled: 2023-01-24 11:20, Continued									
Anions									
Chloride	58.3	AO ≤ 250	0.10	mg/L	2023-01-25				
Fluoride	0.26	MAC = 1.5	0.10	mg/L	2023-01-26				
Nitrate (as N)	6.40	MAC = 10	0.010	mg/L	2023-01-26				
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-01-26				
Sulfate	82.8	AO ≤ 500	1.0	mg/L	2023-01-25				
Calculated Parameters									
Hardness, Total (as CaCO3)	347	None Required	0.500	mg/L	N/A				
Solids, Total Dissolved	487	AO ≤ 500	10.0	mg/L	N/A				
General Parameters									
Alkalinity, Total (as CaCO3)	241	N/A	1.0	mg/L	2023-01-27				
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-01-27				
Alkalinity, Bicarbonate (as CaCO3)	241	N/A		mg/L	2023-01-27				
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0		2023-01-27				
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-01-27				
Conductivity (EC)	845	N/A	2.0		2023-01-27				
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-01-25				
pH	7.73	7.0-10.5	0.10	pH units	2023-01-27	HT2			
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-01-25				
Fotal Metals									
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-01-29				
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-01-29				
Arsenic, total	0.00425	MAC = 0.01	0.00050		2023-01-29				
Barium, total	0.0654	MAC = 2	0.0050		2023-01-29				
Boron, total	0.0553	MAC = 5	0.0500		2023-01-29				
Cadmium, total	0.000031	MAC = 0.007	0.000010		2023-01-29				
Calcium, total	103	None Required	0.20	mg/L	2023-01-29				
Chromium, total	0.00078	MAC = 0.05	0.00050	mg/L	2023-01-29				
Copper, total	0.00671	MAC = 2	0.00040	mg/L	2023-01-29				
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-01-29				
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-01-29				
Magnesium, total	21.8	None Required	0.010	mg/L	2023-01-29				
Manganese, total	0.00135	MAC = 0.12	0.00020	mg/L	2023-01-29				
Potassium, total	6.79	N/A		mg/L	2023-01-29				
Selenium, total	0.00089	MAC = 0.05	0.00050		2023-01-29				
Sodium, total	38.7	AO ≤ 200	0.10	mg/L	2023-01-29				
Strontium, total	0.902	MAC = 7	0.0010	mg/L	2023-01-29				
Uranium, total	0.00807	MAC = 0.02	0.000020	mg/L	2023-01-29				
Zinc, total	0.0093	AO ≤ 5	0.0040	mg/L	2023-01-29				

Well #8 - Chemistry (23A2398-03) | Matrix: Water | Sampled: 2023-01-24 11:35



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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #8 - Chemistry (23A2398-03) Matrix	c: Water Sample	d: 2023-01-24 11:35	, Continued			
Anions						
Chloride	12.3	AO ≤ 250	0.10	mg/L	2023-01-26	
Fluoride	0.21	MAC = 1.5	0.10	mg/L	2023-01-26	
Nitrate (as N)	0.304	MAC = 10	0.010	mg/L	2023-01-26	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-01-26	
Sulfate	36.2	AO ≤ 500	1.0	mg/L	2023-01-26	
Calculated Parameters						
Hardness, Total (as CaCO3)	176	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	244	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	171	N/A	1.0	mg/L	2023-01-27	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-01-27	
Alkalinity, Bicarbonate (as CaCO3)	171	N/A		mg/L	2023-01-27	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-01-27	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-01-27	
Conductivity (EC)	435	N/A	2.0		2023-01-27	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-01-25	
pH	7.51	7.0-10.5	0.10	pH units	2023-01-27	HT2
Turbidity	0.12	OG < 1	0.10	NTU	2023-01-25	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-01-29	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-01-29	
Arsenic, total	0.00197	MAC = 0.01	0.00050		2023-01-29	
Barium, total	0.0488	MAC = 2	0.0050		2023-01-29	
Boron, total	< 0.0500	MAC = 5	0.0500		2023-01-29	
Cadmium, total	0.000028	MAC = 0.007	0.000010		2023-01-29	
Calcium, total	48.0	None Required		mg/L	2023-01-29	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-01-29	
Copper, total	0.00949	MAC = 2	0.00040	mg/L	2023-01-29	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-01-29	
Lead, total	0.00026	MAC = 0.005	0.00020	mg/L	2023-01-29	
Magnesium, total	13.6	None Required	0.010	mg/L	2023-01-29	
Manganese, total	0.122	MAC = 0.12	0.00020		2023-01-29	
Potassium, total	3.88	N/A		mg/L	2023-01-29	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2023-01-29	
Sodium, total	24.2	AO ≤ 200		mg/L	2023-01-29	
Strontium, total	0.447	MAC = 7	0.0010		2023-01-29	
Uranium, total	0.00390	MAC = 0.02	0.000020		2023-01-29	
Zinc, total	0.0402	AO ≤ 5	0.0040		2023-01-29	

Well #6 - Chemistry (23A2398-04) | Matrix: Water | Sampled: 2023-01-24 13:10



REPORTED TO	Osoyoos, Town of	WORK ORDER	23A2398
PROJECT	General Potability	REPORTED	2023-01-29 14:32

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifi			
Well #6 - Chemistry (23A2398-04) Matrix: Water Sampled: 2023-01-24 13:10, Continued									
Anions									
Chloride	29.2	AO ≤ 250	0.10	mg/L	2023-01-26				
Fluoride	0.37	MAC = 1.5	0.10	mg/L	2023-01-26				
Nitrate (as N)	4.29	MAC = 10	0.010	mg/L	2023-01-26				
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-01-26				
Sulfate	66.2	AO ≤ 500	1.0	mg/L	2023-01-26				
Calculated Parameters									
Hardness, Total (as CaCO3)	318	None Required	0.500	mg/L	N/A				
Solids, Total Dissolved	431	AO ≤ 500	1.00	mg/L	N/A				
General Parameters									
Alkalinity, Total (as CaCO3)	273	N/A	1.0	mg/L	2023-01-27				
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-01-27				
Alkalinity, Bicarbonate (as CaCO3)	273	N/A		mg/L	2023-01-27				
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2023-01-27				
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2023-01-27				
Conductivity (EC)	752	N/A		μS/cm	2023-01-27				
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-01-25				
pH	7.80	7.0-10.5	0.10	pH units	2023-01-27	HT2			
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-01-25				
Total Metals									
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-01-29				
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-01-29				
Arsenic, total	0.00401	MAC = 0.01	0.00050		2023-01-29				
Barium, total	0.0741	MAC = 2	0.0050		2023-01-29				
Boron, total	0.0502	MAC = 5	0.0500		2023-01-29				
Cadmium, total	0.000018	MAC = 0.007	0.000010	mg/L	2023-01-29				
Calcium, total	80.0	None Required	0.20	mg/L	2023-01-29				
Chromium, total	0.00111	MAC = 0.05	0.00050	mg/L	2023-01-29				
Copper, total	0.00584	MAC = 2	0.00040	mg/L	2023-01-29				
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-01-29				
Lead, total	0.00022	MAC = 0.005	0.00020	mg/L	2023-01-29				
Magnesium, total	28.8	None Required	0.010		2023-01-29				
Manganese, total	0.0366	MAC = 0.12	0.00020		2023-01-29				
Potassium, total	6.14	N/A		mg/L	2023-01-29				
Selenium, total	0.00085	MAC = 0.05	0.00050		2023-01-29				
Sodium, total	35.1	AO ≤ 200		mg/L	2023-01-29				
Strontium, total	0.901	MAC = 7	0.0010		2023-01-29				
Uranium, total	0.00974	MAC = 0.02	0.000020		2023-01-29				
Zinc, total	0.0179	AO ≤ 5	0.0040	mg/L	2023-01-29				



REPORTED TOOsoyoos, Town ofWORK ORDER23A2398PROJECTGeneral PotabilityREPORTED2023-01-29 14:32

Sample Qualifiers:

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

recommended.

RE2 Result was confirmed by re-analysis prior to reporting.



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Osoyoos, Town of **General Potability PROJECT**

WORK ORDER

23A2398

REPORTED

2023-01-29 14:32

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
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
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

Glossary of Terms:

RLReporting Limit (default)

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

ΑO Aesthetic Objective

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 = basicμS/cm Microsiemens per centimetre **ASTM ASTM International Test Methods**

EPA United States Environmental Protection Agency Test Methods

Standard Methods for the Examination of Water and Wastewater, American Public Health Association SM



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Osoyoos, Town of **PROJECT** General Potability

WORK ORDER REPORTED 23A2398

D 2023-01-29 14:32

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.





REPORTED TO Osoyoos, Town of

PO Box 3010

OSOYOOS, BC V0H 1V0

ATTENTION Kelly McDonald

PO NUMBER Drinking Water
PROJECT General Potability

PROJECT INFO

WORK ORDER 23C2351

RECEIVED / TEMP 2023-03-22 08:05 / NA **REPORTED** 2023-03-26 12:03

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



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.

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.

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 bwhitehead@caro.ca

Authorized By:

Brent Whitehead Account Manager A what



REPORTED TOOsoyoos, Town ofWORK ORDER23C2351PROJECTGeneral PotabilityREPORTED2023-03-26 12:03

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #3 (23C2351-01) Matrix: Water Sa	mpled: 2023-03-2	1 08:25				
Anions						
Chloride	18.4	AO ≤ 250	0.10	mg/L	2023-03-22	
Fluoride	0.46	MAC = 1.5		mg/L	2023-03-22	
Nitrate (as N)	3.32	MAC = 10	0.010	mg/L	2023-03-22	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-03-22	
Sulfate	51.3	AO ≤ 500	1.0	mg/L	2023-03-22	
Calculated Parameters						
Hardness, Total (as CaCO3)	295	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	375	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	255	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Bicarbonate (as CaCO3)	255	N/A		mg/L	2023-03-22	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0		2023-03-22	
Conductivity (EC)	668	N/A	2.0		2023-03-22	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-03-23	
pH	7.90	7.0-10.5	0.10	pH units	2023-03-22	HT2
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-03-22	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-03-25	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-03-25	
Arsenic, total	0.00143	MAC = 0.01	0.00050		2023-03-25	
Barium, total	0.0822	MAC = 2	0.0050		2023-03-25	
Boron, total	0.0516	MAC = 5	0.0500		2023-03-25	
Cadmium, total	0.000028	MAC = 0.007	0.000010		2023-03-25	
Calcium, total	80.4	None Required	0.20		2023-03-25	
Chromium, total	0.00090	MAC = 0.05	0.00050	mg/L	2023-03-25	
Copper, total	0.00566	MAC = 2	0.00040	mg/L	2023-03-25	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-03-25	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-03-25	
Magnesium, total	23.0	None Required	0.010	mg/L	2023-03-25	
Manganese, total	0.0403	MAC = 0.12	0.00020		2023-03-25	
Potassium, total	6.59	N/A		mg/L	2023-03-25	
Selenium, total	0.00152	MAC = 0.05	0.00050		2023-03-25	
Sodium, total	25.8	AO ≤ 200		mg/L	2023-03-25	
Strontium, total	0.963	MAC = 7	0.0010		2023-03-25	
Uranium, total	0.0102	MAC = 0.02	0.000020		2023-03-25	
Zinc, total	0.0046	AO ≤ 5	0.0040		2023-03-25	

Well #8 (23C2351-02) | Matrix: Water | Sampled: 2023-03-21 08:50



REPORTED TO	Osoyoos, Town of	WORK ORDER	23C2351
PROJECT	General Potability	REPORTED	2023-03-26 12:03

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #8 (23C2351-02) Matrix: Water Sa	mpled: 2023-03-2	1 08:50, Continued				
Anions						
Chloride	17.4	AO ≤ 250	0.10	mg/L	2023-03-22	
Fluoride	0.34	MAC = 1.5	0.10	mg/L	2023-03-22	
Nitrate (as N)	0.855	MAC = 10	0.010	mg/L	2023-03-22	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-03-22	
Sulfate	41.7	AO ≤ 500	1.0	mg/L	2023-03-22	
Calculated Parameters						
Hardness, Total (as CaCO3)	200	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	274	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	181	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Bicarbonate (as CaCO3)	181	N/A	1.0		2023-03-22	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-03-22	
Conductivity (EC)	491	N/A	2.0	μS/cm	2023-03-22	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-03-23	
pH	7.88	7.0-10.5	0.10	pH units	2023-03-22	HT2
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-03-22	
Total Metals						
Aluminum, total	0.0065	OG < 0.1	0.0050	mg/L	2023-03-25	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-03-25	
Arsenic, total	0.00214	MAC = 0.01	0.00050		2023-03-25	
Barium, total	0.0597	MAC = 2	0.0050	mg/L	2023-03-25	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-03-25	
Cadmium, total	0.000056	MAC = 0.007	0.000010	mg/L	2023-03-25	
Calcium, total	52.9	None Required	0.20		2023-03-25	
Chromium, total	0.00064	MAC = 0.05	0.00050		2023-03-25	
Copper, total	0.00957	MAC = 2	0.00040		2023-03-25	
Iron, total	< 0.010	AO ≤ 0.3	0.010		2023-03-25	
Lead, total	0.00021	MAC = 0.005	0.00020		2023-03-25	
Magnesium, total	16.3	None Required	0.010		2023-03-25	
Manganese, total	0.122	MAC = 0.12	0.00020		2023-03-25	
Potassium, total	4.20	N/A		mg/L	2023-03-25	
Selenium, total	0.00074	MAC = 0.05	0.00050		2023-03-25	
Sodium, total	26.7	AO ≤ 200		mg/L	2023-03-25	
Strontium, total	0.539	MAC = 7	0.0010		2023-03-25	
Uranium, total	0.00521	MAC = 0.02	0.000020		2023-03-25	
Zinc, total	0.0304	AO ≤ 5	0.0040		2023-03-25	

Well #1 (23C2351-03) | Matrix: Water | Sampled: 2023-03-21 09:30



REPORTED TOOsoyoos, Town ofWORK ORDER23C2351PROJECTGeneral PotabilityREPORTED2023-03-26 12:03

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #1 (23C2351-03) Matrix: Water Sa	mpled: 2023-03-2	1 09:30, Continued				
Anions						
Chloride	45.7	AO ≤ 250	0.10	mg/L	2023-03-22	
Fluoride	0.36	MAC = 1.5		mg/L	2023-03-22	
Nitrate (as N)	5.70	MAC = 10	0.010	mg/L	2023-03-22	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-03-22	
Sulfate	75.6	AO ≤ 500	1.0	mg/L	2023-03-22	
Calculated Parameters						
Hardness, Total (as CaCO3)	311	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	436	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	218	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-03-22	
Alkalinity, Bicarbonate (as CaCO3)	218	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-03-22	
Conductivity (EC)	777	N/A	2.0	μS/cm	2023-03-22	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-03-23	
рН	7.82	7.0-10.5	0.10	pH units	2023-03-22	HT2
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-03-22	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-03-25	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-03-25	
Arsenic, total	0.00457	MAC = 0.01	0.00050	mg/L	2023-03-25	
Barium, total	0.0599	MAC = 2	0.0050	mg/L	2023-03-25	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-03-25	
Cadmium, total	0.000049	MAC = 0.007	0.000010	mg/L	2023-03-25	
Calcium, total	91.3	None Required	0.20	mg/L	2023-03-25	
Chromium, total	0.00081	MAC = 0.05	0.00050	mg/L	2023-03-25	
Copper, total	0.00533	MAC = 2	0.00040	mg/L	2023-03-25	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-03-25	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-03-25	
Magnesium, total	19.9	None Required	0.010	mg/L	2023-03-25	
Manganese, total	0.00135	MAC = 0.12	0.00020	mg/L	2023-03-25	
Potassium, total	6.32	N/A	0.10	mg/L	2023-03-25	
Selenium, total	0.00113	MAC = 0.05	0.00050	mg/L	2023-03-25	
Sodium, total	39.1	AO ≤ 200		mg/L	2023-03-25	
Strontium, total	0.825	MAC = 7	0.0010	mg/L	2023-03-25	
Uranium, total	0.00756	MAC = 0.02	0.000020	mg/L	2023-03-25	
Zinc, total	0.0040	AO ≤ 5	0.0040		2023-03-25	

Well #6 (23C2351-04) | Matrix: Water | Sampled: 2023-03-21 09:50



Well #6 (23C2351-04) Matrix: Water Sampled: 2023-03-21 09:50, Continued Anions Chloride 31.4 AO ≤ 250 0.10 mg/L 2023-03-22 Fluoride 0.43 MAC = 1.5 0.10 mg/L 2023-03-22 Nitrate (as N) 3.72 MAC = 10 0.010 mg/L 2023-03-22 Nitrite (as N) < 0.010 MAC = 1 0.010 mg/L 2023-03-22 Sulfate 63.4 AO ≤ 500 1.0 mg/L 2023-03-22 Calculated Parameters Hardness, Total (as CaCO3) 316 None Required 0.500 mg/L N/A Solids, Total Dissolved 425 AO ≤ 500 1.0 mg/L N/A General Parameters Alkalinity, Total (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Phenolphthalein (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-03-22 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A	REPORTED TO Osoyoos, Town of PROJECT Osoyoos, Town of General Potability				WORK ORDER REPORTED	23C2351 2023-03-2	6 12:03
Anions Chloride 31.4 AO ≤ 250 0.10 mg/L 2023-03-22 Fluoride 0.43 MAC = 1.5 0.10 mg/L 2023-03-22 Nitrate (as N) 3.72 MAC = 10 0.010 mg/L 2023-03-22 Sulfate 63.4 AO ≤ 500 1.0 mg/L 2023-03-22 Sulfate 63.4 AO ≤ 500 1.0 mg/L 2023-03-22 Calculated Parameters Hardness, Total (as CaCO3) 316 None Required 0.500 mg/L N/A Alkalinity, Total (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Total (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Bicarbonate (as CaCO3) 4.0 N/A 1.0 mg/L 2023-03-22 Alkalinity, Bicarbonate (as CaCO3) 4.1 N/A 1.0 mg/L 2023-03-22 Alkalinity, Carbonate (as CaCO3) 4.1 N/A 1.0 mg/L 2023-03-22	Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Chloride 31.4 AO ≤ 250 0.10 mg/L 2023-03-22 Fluoride 0.43 MAC = 1.5 0.10 mg/L 2023-03-22 Nitrate (as N) < 0.010	Well #6 (23C2351-04) Matrix: Water Sam	npled: 2023-03-2	1 09:50, Continued				
Fluoride 0.43 MAC = 1.5 0.10 mg/L 2023-03-22 Nitrate (as N) 3.72 MAC = 10 0.010 mg/L 2023-03-22 Nitrate (as N) < 0.010 MAC = 1 0.010 mg/L 2023-03-22 Sulfate 63.4 AO ≤ 500 1.0 mg/L 2023-03-22 Sulfate Solos So	Anions						
Fluoride 0.43 MAC = 1.5 0.10 mg/L 2023-03-22 Nitrate (as N) 3.72 MAC = 10 0.010 mg/L 2023-03-22 Nitrate (as N) < 0.010 MAC = 1 0.010 mg/L 2023-03-22 Nitrate (as N) < 0.010 MAC = 1 0.010 mg/L 2023-03-22 Nitrate (as N) < 0.010 MAC = 1 0.010 mg/L 2023-03-22 Nitrate 0.010 mg/L 2023-03-22 Nitrate 0.010 mg/L 2023-03-22 Nitrate 0.010 mg/L N/A Nitrate 0.010 mg/L Nitrate 0.010 mg/L Nitrate 0.010 mg/L Nitrate 0.010 mg/L 0.023-03-22 Nitrate 0.010 mg/L 0.010 mg/L 0.023-03-22 Nitrate 0.010 mg/L 0.010 mg	Chloride	31.4	AO ≤ 250	0.10	mg/L	2023-03-22	
Nitrite (as N) < 0.010 MAC = 1 0.010 mg/L 2023-03-22 Sultate 63.4 AO ≤ 500 1.0 mg/L 2023-03-22 Calculated Parameters Hardness, Total (as CaCO3) 316 None Required 0.500 mg/L N/A Solids, Total Dissolved 425 AO ≤ 500 1.00 mg/L N/A Alkalinity, Total (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Phenolphthalein (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Carbonate (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Carbonate (as CaCO3) 4.10 N/A 1.0 mg/L 2023-03-22 Alkalinity, Hydroxide (as CaCO3) 4.10 N/A 1.0 mg/L 2023-03-22 Alkalinity, Hydroxide (as CaCO3) 4.10 N/A 1.0 mg/L 2023-03-22 Conductivity (EC) 765 N/A 2.0 pl/ 2023-03-23	Fluoride	0.43	MAC = 1.5			2023-03-22	
Nitrite (as N)	Nitrate (as N)	3.72	MAC = 10			2023-03-22	
Calculated Parameters Hardness, Total (as CaCO3) 316 None Required 0.500 mg/L N/A Solids, Total Dissolved 425 AO ≤ 500 1.00 mg/L N/A Ceneral Parameters Alkalinity, Total (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Phenolphthalein (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Bicarbonate (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Elocarbonate (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Hydroxide (as CaCO3) <1.0 N/A 1.0 mg/L 2023-03-22 Conductivity (EC) 765 N/A 2.0 ps/cm 2023-03-22 LT Cyanide, Total <0.0020 MAC = 0.2 0.0020 mg/L 2023-03-22 HT2 Turbidity <0.010 G < 1 0.10 pt units 2023-03-22 HT2 Turbidity <th< td=""><td></td><td>< 0.010</td><td>MAC = 1</td><td></td><td></td><td>2023-03-22</td><td></td></th<>		< 0.010	MAC = 1			2023-03-22	
Hardness, Total (as CaCO3) 316 None Required 0.500 mg/L N/A Solids, Total Dissolved 425 AO ≤ 500 1.00 mg/L N/A Foneral Parameters Alkalinity, Total (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Phenolphthalein (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Bicarbonate (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Bicarbonate (as CaCO3) < 1.0	Sulfate	63.4	AO ≤ 500	1.0	mg/L	2023-03-22	
Solids, Total Dissolved 425 AO ≤ 500 1.00 mg/L N/A General Parameters Alkalinity, Total (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Bicarbonate (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Carbonate (as CaCO3) 4.10 N/A 1.0 mg/L 2023-03-22 Alkalinity, Hydroxide (as CaCO3) 4.10 N/A 1.0 mg/L 2023-03-22 Alkalinity, Hydroxide (as CaCO3) 4.10 N/A 1.0 mg/L 2023-03-22 Conductivity (EC) 765 N/A 2.0 µS/cm 2023-03-22 Conductivity (EC) 765 N/A 2.0 µB/cm 2023-03-22 Conductivity (EC) 796 7.0-10.5 0.10 pH units 2023-03-22 Conductivity (EC) 796 7.0-10.5 0.10 pH units 2023-03-22 Turbidity 0.10 0.6 1 0.00 mg/L 2023-03-25 Turbidity	Calculated Parameters						
General Parameters Alkalinity, Total (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Total (as CaCO3) < 1.0	Hardness, Total (as CaCO3)	316	None Required	0.500	mg/L	N/A	
Alkalinity, Total (as CaCO3) 268 N/A 1.0 mg/L 2023-03-22 Alkalinity, Phenolphthalein (as CaCO3) < 1.0		425				N/A	
Alkalinity, Phenolphthalein (as CaCO3)	General Parameters						
Alkalinity, Bicarbonate (as CaCO3) Alkalinity, Carbonate (as CaCO3)	Alkalinity, Total (as CaCO3)	268	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-03-22 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-03-22 Conductivity (EC) 765 N/A 2.0 μS/cm 2023-03-22 Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2023-03-23 HT2 pH 7.96 7.0-10.5 0.10 pH units 2023-03-22 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-03-22 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-03-22 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-03-22 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-03-22 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-03-22 HT2 Turbidity < 0.00020 MAC = 0.006 0.00020 mg/L 2023-03-25	Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-03-22	
Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-03-22 Conductivity (EC) 765 N/A 2.0 µS/cm 2023-03-22 Cyanide, Total < 0.0020	Alkalinity, Bicarbonate (as CaCO3)	268	N/A	1.0	mg/L	2023-03-22	
Conductivity (EC) 765 N/A 2.0 µS/cm 2023-03-22 Cyanide, Total < 0.0020	Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-03-22	
Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2023-03-23 pH 7.96 7.0-10.5 0.10 pH units 2023-03-22 HTZ Turbidity < 0.10	Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-03-22	
Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2023-03-23 pH 7.96 7.0-10.5 0.10 pH units 2023-03-22 HTZ Turbidity < 0.10		765	N/A	2.0	μS/cm	2023-03-22	
pH 7.96 7.0-10.5 0.10 pH units 2023-03-22 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-03-22 HT2 Total Metals Aluminum, total 0.0653 OG < 0.1		< 0.0020	MAC = 0.2			2023-03-23	
Total Metals Aluminum, total 0.0653 OG < 0.1 0.0050 mg/L 2023-03-25 Antimony, total < 0.00020		7.96	7.0-10.5	0.10	pH units	2023-03-22	HT2
Aluminum, total 0.0653 OG < 0.1 0.0050 mg/L 2023-03-25 Antimony, total < 0.00020	Turbidity	< 0.10	OG < 1	0.10	NTU	2023-03-22	
Antimony, total < 0.00020 MAC = 0.006 0.00020 mg/L 2023-03-25 Arsenic, total 0.00907 MAC = 0.01 0.00050 mg/L 2023-03-25 Barium, total 0.0745 MAC = 2 0.0050 mg/L 2023-03-25 Boron, total < 0.0500 MAC = 5 0.0500 mg/L 2023-03-25 Cadmium, total 0.000595 MAC = 0.007 0.00010 mg/L 2023-03-25 Calcium, total 77.1 None Required 0.20 mg/L 2023-03-25 Chromium, total 0.00159 MAC = 0.05 0.00050 mg/L 2023-03-25 Copper, total 0.00732 MAC = 2 0.00040 mg/L 2023-03-25 Iron, total 0.068 AO ≤ 0.3 0.010 mg/L 2023-03-25 Lead, total 0.0072 MAC = 0.005 0.00020 mg/L 2023-03-25 Magnesium, total 29.9 None Required 0.010 mg/L 2023-03-25 Manganese, total 0.0488 MAC = 0.12 0.00020 mg/L 2023-03-25 Potassium, total 6.67 N/A 0.10 mg/L	Total Metals						
Antimony, total < 0.00020 MAC = 0.006 0.00020 mg/L 2023-03-25 Arsenic, total 0.00907 MAC = 0.01 0.00050 mg/L 2023-03-25 Barium, total 0.0745 MAC = 2 0.0050 mg/L 2023-03-25 Boron, total < 0.0500 MAC = 5 0.0500 mg/L 2023-03-25 Cadmium, total 0.000595 MAC = 0.007 0.00010 mg/L 2023-03-25 Calcium, total 77.1 None Required 0.20 mg/L 2023-03-25 Chromium, total 0.00159 MAC = 0.05 0.00050 mg/L 2023-03-25 Copper, total 0.00732 MAC = 2 0.00040 mg/L 2023-03-25 Iron, total 0.068 AO ≤ 0.3 0.010 mg/L 2023-03-25 Lead, total 0.0072 MAC = 0.005 0.00020 mg/L 2023-03-25 Magnesium, total 29.9 None Required 0.010 mg/L 2023-03-25 Manganese, total 0.0488 MAC = 0.12 0.00020 mg/L 2023-03-25 Potassium, total 6.67 N/A 0.10 mg/L	Aluminum, total	0.0653	OG < 0.1	0.0050	mg/L	2023-03-25	
Barium, total 0.0745 MAC = 2 0.0050 mg/L 2023-03-25 Boron, total < 0.0500	Antimony, total	< 0.00020	MAC = 0.006			2023-03-25	
Boron, total < 0.0500 MAC = 5 0.0500 mg/L 2023-03-25 Cadmium, total 0.000595 MAC = 0.007 0.000010 mg/L 2023-03-25 Calcium, total 77.1 None Required 0.20 mg/L 2023-03-25 Chromium, total 0.00159 MAC = 0.05 0.00050 mg/L 2023-03-25 Copper, total 0.00732 MAC = 2 0.00040 mg/L 2023-03-25 Iron, total 0.068 AO ≤ 0.3 0.010 mg/L 2023-03-25 Lead, total 0.00072 MAC = 0.005 0.00020 mg/L 2023-03-25 Magnesium, total 29.9 None Required 0.010 mg/L 2023-03-25 Manganese, total 0.0488 MAC = 0.12 0.00020 mg/L 2023-03-25 Potassium, total 6.67 N/A 0.10 mg/L 2023-03-25 Selenium, total 0.00608 MAC = 0.05 0.00050 mg/L 2023-03-25 Sodium, total 36.5 AO ≤ 200 0.10 mg/L 2023-03-25 Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023		0.00907	MAC = 0.01	0.00050	mg/L	2023-03-25	
Cadmium, total 0.000595 MAC = 0.007 0.000010 mg/L 2023-03-25 Calcium, total 77.1 None Required 0.20 mg/L 2023-03-25 Chromium, total 0.00159 MAC = 0.05 0.00050 mg/L 2023-03-25 Copper, total 0.00732 MAC = 2 0.00040 mg/L 2023-03-25 Iron, total 0.068 AO ≤ 0.3 0.010 mg/L 2023-03-25 Lead, total 0.00072 MAC = 0.005 0.00020 mg/L 2023-03-25 Magnesium, total 29.9 None Required 0.010 mg/L 2023-03-25 Manganese, total 0.0488 MAC = 0.12 0.00020 mg/L 2023-03-25 Potassium, total 6.67 N/A 0.10 mg/L 2023-03-25 Selenium, total 0.00608 MAC = 0.05 0.00050 mg/L 2023-03-25 Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023-03-25 Uranium, total 0.00962 MAC = 0.02	Barium, total	0.0745	MAC = 2	0.0050	mg/L	2023-03-25	
Calcium, total 77.1 None Required 0.20 mg/L 2023-03-25 Chromium, total 0.00159 MAC = 0.05 0.00050 mg/L 2023-03-25 Copper, total 0.00732 MAC = 2 0.00040 mg/L 2023-03-25 Iron, total 0.068 AO ≤ 0.3 0.010 mg/L 2023-03-25 Lead, total 0.00072 MAC = 0.005 0.00020 mg/L 2023-03-25 Magnesium, total 29.9 None Required 0.010 mg/L 2023-03-25 Manganese, total 0.0488 MAC = 0.12 0.00020 mg/L 2023-03-25 Potassium, total 6.67 N/A 0.10 mg/L 2023-03-25 Selenium, total 0.00608 MAC = 0.05 0.00050 mg/L 2023-03-25 Sodium, total 36.5 AO ≤ 200 0.10 mg/L 2023-03-25 Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023-03-25 Uranium, total 0.00962 MAC = 0.02 0.000020 mg/L 2023-03-25	Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-03-25	
$ \begin{array}{c} \text{Chromium, total} & \textbf{0.00159} & \text{MAC} = 0.05 & 0.00050 & \text{mg/L} & 2023-03-25 \\ \text{Copper, total} & \textbf{0.00732} & \text{MAC} = 2 & 0.00040 & \text{mg/L} & 2023-03-25 \\ \text{Iron, total} & \textbf{0.068} & \text{AO} \leq 0.3 & 0.010 & \text{mg/L} & 2023-03-25 \\ \text{Lead, total} & \textbf{0.00072} & \text{MAC} = 0.005 & 0.00020 & \text{mg/L} & 2023-03-25 \\ \text{Magnesium, total} & \textbf{29.9} & \text{None Required} & 0.010 & \text{mg/L} & 2023-03-25 \\ \text{Manganese, total} & \textbf{0.0488} & \text{MAC} = 0.12 & 0.00020 & \text{mg/L} & 2023-03-25 \\ \text{Potassium, total} & \textbf{0.0488} & \text{MAC} = 0.12 & 0.00020 & \text{mg/L} & 2023-03-25 \\ \text{Selenium, total} & \textbf{0.00608} & \text{MAC} = 0.05 & 0.00050 & \text{mg/L} & 2023-03-25 \\ \text{Sodium, total} & \textbf{36.5} & \text{AO} \leq 200 & 0.10 & \text{mg/L} & 2023-03-25 \\ \text{Strontium, total} & \textbf{0.931} & \text{MAC} = 7 & 0.0010 & \text{mg/L} & 2023-03-25 \\ \text{Uranium, total} & \textbf{0.00962} & \text{MAC} = 0.02 & 0.00020 & \text{mg/L} & 2023-03-25 \\ \end{array} $	Cadmium, total	0.000595	MAC = 0.007	0.000010	mg/L	2023-03-25	
Copper, total 0.00732 MAC = 2 0.00040 mg/L 2023-03-25 Iron, total 0.068 AO ≤ 0.3 0.010 mg/L 2023-03-25 Lead, total 0.00072 MAC = 0.005 0.00020 mg/L 2023-03-25 Magnesium, total 29.9 None Required 0.010 mg/L 2023-03-25 Manganese, total 0.0488 MAC = 0.12 0.00020 mg/L 2023-03-25 Potassium, total 6.67 N/A 0.10 mg/L 2023-03-25 Selenium, total 0.00608 MAC = 0.05 0.00050 mg/L 2023-03-25 Sodium, total 36.5 AO ≤ 200 0.10 mg/L 2023-03-25 Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023-03-25 Uranium, total 0.00962 MAC = 0.02 0.000020 mg/L 2023-03-25	Calcium, total	77.1	None Required	0.20	mg/L	2023-03-25	
Iron, total 0.068 AO ≤ 0.3 0.010 mg/L 2023-03-25 Lead, total 0.00072 MAC = 0.005 0.00020 mg/L 2023-03-25 Magnesium, total 29.9 None Required 0.010 mg/L 2023-03-25 Manganese, total 0.0488 MAC = 0.12 0.00020 mg/L 2023-03-25 Potassium, total 6.67 N/A 0.10 mg/L 2023-03-25 Selenium, total 0.00608 MAC = 0.05 0.00050 mg/L 2023-03-25 Sodium, total 36.5 AO ≤ 200 0.10 mg/L 2023-03-25 Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023-03-25 Uranium, total 0.00962 MAC = 0.02 0.000020 mg/L 2023-03-25	Chromium, total	0.00159	MAC = 0.05	0.00050	mg/L	2023-03-25	
Lead, total 0.00072 MAC = 0.005 0.00020 mg/L 2023-03-25 Magnesium, total 29.9 None Required 0.010 mg/L 2023-03-25 Manganese, total 0.0488 MAC = 0.12 0.00020 mg/L 2023-03-25 Potassium, total 6.67 N/A 0.10 mg/L 2023-03-25 Selenium, total 0.00608 MAC = 0.05 0.00050 mg/L 2023-03-25 Sodium, total 36.5 AO ≤ 200 0.10 mg/L 2023-03-25 Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023-03-25 Uranium, total 0.00962 MAC = 0.02 0.000020 mg/L 2023-03-25	Copper, total	0.00732	MAC = 2	0.00040	mg/L	2023-03-25	
Lead, total 0.00072 MAC = 0.005 0.00020 mg/L 2023-03-25 Magnesium, total 29.9 None Required 0.010 mg/L 2023-03-25 Manganese, total 0.0488 MAC = 0.12 0.00020 mg/L 2023-03-25 Potassium, total 6.67 N/A 0.10 mg/L 2023-03-25 Selenium, total 0.00608 MAC = 0.05 0.00050 mg/L 2023-03-25 Sodium, total 36.5 AO ≤ 200 0.10 mg/L 2023-03-25 Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023-03-25 Uranium, total 0.00962 MAC = 0.02 0.000020 mg/L 2023-03-25	Iron, total	0.068	AO ≤ 0.3	0.010	mg/L	2023-03-25	
Manganese, total0.0488MAC = 0.120.00020 mg/L2023-03-25Potassium, total6.67N/A0.10 mg/L2023-03-25Selenium, total0.00608MAC = 0.050.00050 mg/L2023-03-25Sodium, total36.5AO ≤ 2000.10 mg/L2023-03-25Strontium, total0.931MAC = 70.0010 mg/L2023-03-25Uranium, total0.00962MAC = 0.020.000020 mg/L2023-03-25	Lead, total	0.00072	MAC = 0.005	0.00020	mg/L	2023-03-25	
Manganese, total0.0488MAC = 0.120.00020 mg/L2023-03-25Potassium, total6.67N/A0.10 mg/L2023-03-25Selenium, total0.00608MAC = 0.050.00050 mg/L2023-03-25Sodium, total36.5AO ≤ 2000.10 mg/L2023-03-25Strontium, total0.931MAC = 70.0010 mg/L2023-03-25Uranium, total0.00962MAC = 0.020.000020 mg/L2023-03-25	Magnesium, total	29.9	None Required			2023-03-25	
Selenium, total 0.00608 MAC = 0.05 0.00050 mg/L 2023-03-25 Sodium, total 36.5 AO ≤ 200 0.10 mg/L 2023-03-25 Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023-03-25 Uranium, total 0.00962 MAC = 0.02 0.000020 mg/L 2023-03-25	Manganese, total	0.0488	MAC = 0.12	0.00020	mg/L	2023-03-25	
Selenium, total 0.00608 MAC = 0.05 0.00050 mg/L 2023-03-25 Sodium, total 36.5 AO ≤ 200 0.10 mg/L 2023-03-25 Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023-03-25 Uranium, total 0.00962 MAC = 0.02 0.000020 mg/L 2023-03-25	Potassium, total	6.67	N/A			2023-03-25	
Sodium, total 36.5 AO ≤ 200 0.10 mg/L 2023-03-25 Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023-03-25 Uranium, total 0.00962 MAC = 0.02 0.000020 mg/L 2023-03-25	Selenium, total	0.00608					
Strontium, total 0.931 MAC = 7 0.0010 mg/L 2023-03-25 Uranium, total 0.00962 MAC = 0.02 0.000020 mg/L 2023-03-25		36.5					
Uranium, total 0.00962 MAC = 0.02 0.000020 mg/L 2023-03-25		0.931				2023-03-25	
		0.00962					
	Zinc, total		AO ≤ 5			2023-03-25	



REPORTED TOOsoyoos, Town ofWORK ORDER23C2351PROJECTGeneral PotabilityREPORTED2023-03-26 12:03

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 Osoyoos, Town of **General Potability PROJECT**

WORK ORDER

23C2351

REPORTED

2023-03-26 12:03

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
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
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

Glossary of Terms:

RLReporting Limit (default)

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

ΑO Aesthetic Objective

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 = basicμS/cm Microsiemens per centimetre **ASTM ASTM International Test Methods**

EPA United States Environmental Protection Agency Test Methods

Standard Methods for the Examination of Water and Wastewater, American Public Health Association SM



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Osoyoos, Town of **PROJECT** General Potability

WORK ORDER
REPORTED

23C2351

2023-03-26 12:03

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. 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. 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.





CERTIFICATE OF ANALYSIS

REPORTED TO Osoyoos, Town of

PO Box 3010

OSOYOOS, BC V0H 1V0

ATTENTION Kelly McDonald

rtony wobonaia

PO NUMBER PROJECT

Drinking Water General Potability

PROJECT INFO

WORK ORDER

23E2894

EMP 2023-05-24 08:54 / 13.6°C

RECEIVED / TEMP REPORTED

2023-05-30 11:18

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



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.

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.

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 bwhitehead@caro.ca

Authorized By:

Brent Whitehead Account Manager M what



REPORTED TOOsoyoos, Town ofWORK ORDER23E2894PROJECTGeneral PotabilityREPORTED2023-05-30 11:18

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #1 (23E2894-01) Matrix: Water Sai	mpled: 2023-05-2	3 08:40				
Anions						
Chloride	38.9	AO ≤ 250	0.10	mg/L	2023-05-24	
Fluoride	0.27	MAC = 1.5		mg/L	2023-05-24	
Nitrate (as N)	5.05	MAC = 10	0.010	mg/L	2023-05-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-05-24	
Sulfate	69.5	AO ≤ 500	1.0	mg/L	2023-05-24	
Calculated Parameters						
Hardness, Total (as CaCO3)	300	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	414	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	218	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-05-28	
Alkalinity, Bicarbonate (as CaCO3)	218	N/A		mg/L	2023-05-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-05-28	
Conductivity (EC)	684	N/A	2.0	μS/cm	2023-05-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-05-27	
pH	7.54	7.0-10.5	0.10	pH units	2023-05-28	HT2
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-05-26	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-05-27	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-05-27	
Arsenic, total	0.00414	MAC = 0.01	0.00050		2023-05-27	
Barium, total	0.0535	MAC = 2	0.0050		2023-05-27	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-05-27	
Cadmium, total	0.000027	MAC = 0.007	0.000010		2023-05-27	
Calcium, total	91.4	None Required	0.20	mg/L	2023-05-27	
Chromium, total	0.00077	MAC = 0.05	0.00050	mg/L	2023-05-27	
Copper, total	0.00464	MAC = 2	0.00040	mg/L	2023-05-27	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-05-27	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-05-27	
Magnesium, total	17.4	None Required		mg/L	2023-05-27	
Manganese, total	0.00145	MAC = 0.12	0.00020		2023-05-27	
Potassium, total	6.01	N/A		mg/L	2023-05-27	
Selenium, total	0.00095	MAC = 0.05	0.00050		2023-05-27	
Sodium, total	35.8	AO ≤ 200		mg/L	2023-05-27	
Strontium, total	0.754	MAC = 7	0.0010		2023-05-27	
Uranium, total	0.00659	MAC = 0.02	0.000020	mg/L	2023-05-27	
Zinc, total	0.0049	AO ≤ 5	0.0040	mg/L	2023-05-27	

Well #8 (23E2894-02) | Matrix: Water | Sampled: 2023-05-23 09:00



REPORTED TOOsoyoos, Town ofWORK ORDER23E2894PROJECTGeneral PotabilityREPORTED2023-05-30 11:18

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #8 (23E2894-02) Matrix: Water Sa	mpled: 2023-05-2	3 09:00, Continued				
Anions						
Chloride	13.1	AO ≤ 250	0.10	mg/L	2023-05-24	
Fluoride	0.25	MAC = 1.5	0.10	mg/L	2023-05-24	
Nitrate (as N)	0.615	MAC = 10	0.010	mg/L	2023-05-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-05-24	
Sulfate	37.8	AO ≤ 500	1.0	mg/L	2023-05-24	
Calculated Parameters						
Hardness, Total (as CaCO3)	163	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	241	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	171	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Bicarbonate (as CaCO3)	171	N/A		mg/L	2023-05-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-05-28	
Conductivity (EC)	415	N/A	2.0	μS/cm	2023-05-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-05-27	
pH	7.54	7.0-10.5	0.10	pH units	2023-05-28	HT2
Turbidity	0.14	OG < 1	0.10	NTU	2023-05-26	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-05-27	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-05-27	
Arsenic, total	0.00192	MAC = 0.01	0.00050	mg/L	2023-05-27	
Barium, total	0.0507	MAC = 2	0.0050	mg/L	2023-05-27	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-05-27	
Cadmium, total	0.000026	MAC = 0.007	0.000010	mg/L	2023-05-27	
Calcium, total	42.7	None Required	0.20	mg/L	2023-05-27	
Chromium, total	0.00054	MAC = 0.05	0.00050	mg/L	2023-05-27	
Copper, total	0.00720	MAC = 2	0.00040	mg/L	2023-05-27	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-05-27	
Lead, total	< 0.00020	MAC = 0.005	0.00020		2023-05-27	
Magnesium, total	13.7	None Required	0.010	mg/L	2023-05-27	
Manganese, total	0.120	MAC = 0.12	0.00020		2023-05-27	
Potassium, total	3.67	N/A		mg/L	2023-05-27	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2023-05-27	
Sodium, total	23.0	AO ≤ 200		mg/L	2023-05-27	
Strontium, total	0.480	MAC = 7	0.0010		2023-05-27	
Uranium, total	0.00366	MAC = 0.02	0.000020		2023-05-27	
Zinc, total	0.0322	AO ≤ 5	0.0040		2023-05-27	

Well #3 (23E2894-03) | Matrix: Water | Sampled: 2023-05-23 09:30



REPORTED TOOsoyoos, Town ofWORK ORDER23E2894PROJECTGeneral PotabilityREPORTED2023-05-30 11:18

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #3 (23E2894-03) Matrix: Water Sa	mpled: 2023-05-2	3 09:30, Continued				
Anions						
Chloride	15.3	AO ≤ 250	0.10	mg/L	2023-05-24	
Fluoride	0.46	MAC = 1.5	0.10	mg/L	2023-05-24	
Nitrate (as N)	2.73	MAC = 10	0.010	mg/L	2023-05-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-05-24	
Sulfate	47.9	AO ≤ 500	1.0	mg/L	2023-05-24	
Calculated Parameters						
Hardness, Total (as CaCO3)	288	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	362	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	252	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-05-28	
Alkalinity, Bicarbonate (as CaCO3)	252	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-05-28	
Conductivity (EC)	612	N/A	2.0	μS/cm	2023-05-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-05-27	
pH	7.66	7.0-10.5	0.10	pH units	2023-05-28	HT2
Turbidity	0.14	OG < 1	0.10	NTU	2023-05-26	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-05-27	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2023-05-27	
Arsenic, total	0.00151	MAC = 0.01	0.00050	mg/L	2023-05-27	
Barium, total	0.0748	MAC = 2	0.0050	mg/L	2023-05-27	
Boron, total	0.0574	MAC = 5	0.0500	mg/L	2023-05-27	
Cadmium, total	0.000029	MAC = 0.007	0.000010	mg/L	2023-05-27	
Calcium, total	81.2	None Required	0.20	mg/L	2023-05-27	
Chromium, total	0.00088	MAC = 0.05	0.00050	mg/L	2023-05-27	
Copper, total	0.00621	MAC = 2	0.00040	mg/L	2023-05-27	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-05-27	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-05-27	
Magnesium, total	20.7	None Required	0.010	mg/L	2023-05-27	
Manganese, total	0.0406	MAC = 0.12	0.00020	mg/L	2023-05-27	
Potassium, total	6.46	N/A	0.10	mg/L	2023-05-27	
Selenium, total	0.00142	MAC = 0.05	0.00050	mg/L	2023-05-27	
Sodium, total	25.0	AO ≤ 200	0.10	mg/L	2023-05-27	
Strontium, total	0.914	MAC = 7	0.0010	mg/L	2023-05-27	
Uranium, total	0.00950	MAC = 0.02	0.000020	mg/L	2023-05-27	
Zinc, total	0.0044	AO ≤ 5	0.0040	mg/L	2023-05-27	

Well #4 (23E2894-04) | Matrix: Water | Sampled: 2023-05-23 11:00



REPORTED TOOsoyoos, Town ofWORK ORDER23E2894PROJECTGeneral PotabilityREPORTED2023-05-30 11:18

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #4 (23E2894-04) Matrix: Water Sa	mpled: 2023-05-2	3 11:00, Continued				
Anions						
Chloride	5.30	AO ≤ 250	0.10	mg/L	2023-05-24	
Fluoride	0.45	MAC = 1.5		mg/L	2023-05-24	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2023-05-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-05-24	
Sulfate	30.8	AO ≤ 500	1.0	mg/L	2023-05-24	
Calculated Parameters						
Hardness, Total (as CaCO3)	229	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	290	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	248	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Bicarbonate (as CaCO3)	248	N/A	1.0		2023-05-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-05-28	
Conductivity (EC)	512	N/A	2.0	μS/cm	2023-05-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-05-27	
pH	8.00	7.0-10.5	0.10	pH units	2023-05-28	HT2
Turbidity	0.86	OG < 1	0.10	NTU	2023-05-26	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-05-27	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-05-27	
Arsenic, total	0.00627	MAC = 0.01	0.00050	mg/L	2023-05-27	
Barium, total	0.143	MAC = 2	0.0050	mg/L	2023-05-27	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-05-27	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2023-05-27	
Calcium, total	42.4	None Required	0.20	mg/L	2023-05-27	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-05-27	
Copper, total	0.00049	MAC = 2	0.00040	mg/L	2023-05-27	
Iron, total	0.299	AO ≤ 0.3	0.010	mg/L	2023-05-27	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-05-27	
Magnesium, total	29.8	None Required	0.010	mg/L	2023-05-27	
Manganese, total	0.133	MAC = 0.12	0.00020	mg/L	2023-05-27	
Potassium, total	6.09	N/A		mg/L	2023-05-27	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2023-05-27	
Sodium, total	24.4	AO ≤ 200		mg/L	2023-05-27	
Strontium, total	0.690	MAC = 7	0.0010		2023-05-27	
Uranium, total	0.000915	MAC = 0.02	0.000020		2023-05-27	
Zinc, total	< 0.0040	AO ≤ 5	0.0040		2023-05-27	

Well #5 (23E2894-05) | Matrix: Water | Sampled: 2023-05-23 11:10



REPORTED TOOsoyoos, Town ofWORK ORDER23E2894PROJECTGeneral PotabilityREPORTED2023-05-30 11:18

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #5 (23E2894-05) Matrix: Water Sa	mpled: 2023-05-2	3 11:10, Continued				
Anions						
Chloride	8.19	AO ≤ 250	0.10	mg/L	2023-05-24	
Fluoride	0.38	MAC = 1.5	0.10	mg/L	2023-05-24	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2023-05-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-05-24	
Sulfate	33.3	AO ≤ 500	1.0	mg/L	2023-05-24	
Calculated Parameters						
Hardness, Total (as CaCO3)	200	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	258	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	202	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-05-28	
Alkalinity, Bicarbonate (as CaCO3)	202	N/A		mg/L	2023-05-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0		2023-05-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0		2023-05-28	
Conductivity (EC)	447	N/A	2.0		2023-05-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-05-27	
pH	7.85	7.0-10.5	0.10	pH units	2023-05-28	HT2
Turbidity	0.41	OG < 1	0.10	NTU	2023-05-26	
Total Metals						
Aluminum, total	0.0055	OG < 0.1	0.0050	mg/L	2023-05-27	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-05-27	
Arsenic, total	0.00212	MAC = 0.01	0.00050		2023-05-27	
Barium, total	0.0973	MAC = 2	0.0050		2023-05-27	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-05-27	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2023-05-27	
Calcium, total	48.9	None Required	0.20	mg/L	2023-05-27	
Chromium, total	0.00138	MAC = 0.05	0.00050	mg/L	2023-05-27	
Copper, total	0.00316	MAC = 2	0.00040	mg/L	2023-05-27	
Iron, total	0.134	AO ≤ 0.3	0.010	mg/L	2023-05-27	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-05-27	
Magnesium, total	19.0	None Required	0.010	mg/L	2023-05-27	
Manganese, total	0.145	MAC = 0.12	0.00020	mg/L	2023-05-27	
Potassium, total	4.63	N/A	0.10	mg/L	2023-05-27	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-05-27	
Sodium, total	20.9	AO ≤ 200	0.10	mg/L	2023-05-27	
Strontium, total	0.584	MAC = 7	0.0010	mg/L	2023-05-27	
Uranium, total	0.00211	MAC = 0.02	0.000020	mg/L	2023-05-27	
Zinc, total	0.0064	AO ≤ 5	0.0040	mg/L	2023-05-27	

Well #6 (23E2894-06) | Matrix: Water | Sampled: 2023-05-23 11:45



REPORTED TO	Osoyoos, Town of	WORK ORDER	23E2894
PROJECT	General Potability	REPORTED	2023-05-30 11:18

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #6 (23E2894-06) Matrix: Water Sa	mpled: 2023-05-2	3 11:45, Continued				
Anions						
Chloride	20.0	AO ≤ 250	0.10	mg/L	2023-05-24	
Fluoride	0.33	MAC = 1.5		mg/L	2023-05-24	
Nitrate (as N)	2.56	MAC = 10	0.010	mg/L	2023-05-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-05-24	
Sulfate	62.5	AO ≤ 500	1.0	mg/L	2023-05-24	
Calculated Parameters						
Hardness, Total (as CaCO3)	321	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	413	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	278	N/A	1.0	mg/L	2023-05-28	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-05-28	
Alkalinity, Bicarbonate (as CaCO3)	278	N/A		mg/L	2023-05-28	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2023-05-28	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2023-05-28	
Conductivity (EC)	708	N/A		μS/cm	2023-05-28	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-05-27	
pH	7.96	7.0-10.5	0.10	pH units	2023-05-28	HT2
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-05-26	
otal Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-05-27	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2023-05-27	
Arsenic, total	0.00439	MAC = 0.01	0.00050		2023-05-27	
Barium, total	0.0720	MAC = 2	0.0050		2023-05-27	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-05-27	
Cadmium, total	0.000018	MAC = 0.007	0.000010	mg/L	2023-05-27	
Calcium, total	78.5	None Required		mg/L	2023-05-27	
Chromium, total	0.00074	MAC = 0.05	0.00050		2023-05-27	
Copper, total	0.00245	MAC = 2	0.00040	mg/L	2023-05-27	
Iron, total	< 0.010	AO ≤ 0.3	0.010		2023-05-27	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-05-27	
Magnesium, total	30.2	None Required	0.010	mg/L	2023-05-27	
Manganese, total	0.0569	MAC = 0.12	0.00020	mg/L	2023-05-27	
Potassium, total	6.39	N/A		mg/L	2023-05-27	
Selenium, total	0.00074	MAC = 0.05	0.00050	mg/L	2023-05-27	
Sodium, total	34.5	AO ≤ 200	0.10	mg/L	2023-05-27	
Strontium, total	0.892	MAC = 7	0.0010	mg/L	2023-05-27	
Uranium, total	0.00714	MAC = 0.02	0.000020	mg/L	2023-05-27	
Zinc, total	0.0080	AO ≤ 5	0.0040	mg/L	2023-05-27	



REPORTED TO Osoyoos, Town of PROJECT General Potability

WORK ORDER

23E2894

REPORTED 2023-05-30 11:18

Sample Qualifiers:

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

recommended.



APPENDIX 1: SUPPORTING INFORMATION

Osoyoos, Town of **REPORTED TO General Potability PROJECT**

WORK ORDER

23E2894

REPORTED

2023-05-30 11:18

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
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
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

Glossary of Terms:

RLReporting Limit (default)

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

ΑO Aesthetic Objective

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 = basicμS/cm Microsiemens per centimetre **ASTM ASTM International Test Methods**

EPA United States Environmental Protection Agency Test Methods

Standard Methods for the Examination of Water and Wastewater, American Public Health Association SM



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO Osoyoos, Town of **PROJECT** General Potability

WORK ORDER
REPORTED

23E2894

2023-05-30 11:18

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. 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. 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.





CERTIFICATE OF ANALYSIS

REPORTED TO Osoyoos, Town of

PO Box 3010

OSOYOOS, BC V0H 1V0

ATTENTION Kelly McDonald

PO NUMBER Drin
PROJECT Gen

Drinking Water General Potability

PROJECT INFO

WORK ORDER 23H1376

RECEIVED / TEMP 2023-08-09 17:30 / 14.4°C

REPORTED 2023-08-17 14:01

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



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.

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.

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 bwhitehead@caro.ca

Authorized By:

Brent Whitehead Account Manager M unshired



REPORTED TO Osoyoos, Town of PROJECT General Potability				WORK ORDER REPORTED	23H1376 2023-08-1	7 14:01
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Well #3 (23H1376-01) Matrix: Water Sa	mpled: 2023-08-0	9 08:40				
Anions						
Chloride	17.6	AO ≤ 250	0.10	mg/L	2023-08-11	
Fluoride	0.41	MAC = 1.5	0.10	mg/L	2023-08-11	
Nitrate (as N)	2.61	MAC = 10	0.010	mg/L	2023-08-11	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-08-11	
Sulfate	50.6	AO ≤ 500		mg/L	2023-08-11	
Calculated Parameters						
Hardness, Total (as CaCO3)	279	None Required	0.500	mg/L	N/A	
Langelier Index	0.6	N/A	-5.0		2023-08-17	CT6
Solids, Total Dissolved	375	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	271	N/A	1.0	mg/L	2023-08-12	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-08-12	
Alkalinity, Bicarbonate (as CaCO3)	271	N/A		mg/L	2023-08-12	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2023-08-12	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2023-08-12	
Colour, True	< 5.0	AO ≤ 15		CU	2023-08-12	
Conductivity (EC)	625	N/A		μS/cm	2023-08-12	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020		2023-08-11	
pH	7.96	7.0-10.5		pH units	2023-08-12	HT2
Temperature, at pH	20.9	N/A		°C	2023-08-12	HT2
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-08-10	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	ma/l	2023-08-16	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2023-08-16	
Arsenic, total	0.00150	MAC = 0.01	0.00050		2023-08-16	
Barium, total	0.0829	MAC = 2	0.0050		2023-08-16	
Boron, total	0.0584	MAC = 5	0.0500		2023-08-16	
Cadmium, total	0.000034	MAC = 0.007	0.000010		2023-08-16	
Calcium, total	74.5	None Required		mg/L	2023-08-16	
Chromium, total	0.00093	MAC = 0.05	0.00050		2023-08-16	
Cobalt, total	< 0.00010	N/A	0.00010		2023-08-16	
Copper, total	0.00603	MAC = 2	0.00040		2023-08-16	
Iron, total	< 0.010	AO ≤ 0.3		mg/L	2023-08-16	
Lead, total	< 0.00020	MAC = 0.005	0.00020		2023-08-16	
Magnesium, total	22.5	None Required		mg/L	2023-08-16	
Manganese, total	0.0483	MAC = 0.12	0.00020		2023-08-16	
Mercury, total	< 0.000040	MAC = 0.001	0.000040		2023-08-16	HG1
Molybdenum, total	0.00810	N/A	0.00010		2023-08-16	
Nickel, total	0.00080	N/A	0.00040		2023-08-16	
Potassium, total	6.46	N/A		mg/L	2023-08-16	
Selenium, total	0.00146	MAC = 0.05	0.00050		2023-08-16	
·						Page 2 of 1



PROJECT	Osoyoos, Town of General Potability				WORK ORDER REPORTED	23H1376 2023-08-1	7 14:01
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
Well #3 (23H1376	-01) Matrix: Water Sai	mpled: 2023-08-09	9 08:40, Continued				
Total Metals, Conti	nued						
Sodium, total		26.7	AO ≤ 200	0.10	mg/L	2023-08-16	
Strontium, total		0.915	MAC = 7	0.0010		2023-08-16	
Uranium, total		0.0107	MAC = 0.02	0.000020		2023-08-16	
Zinc, total		< 0.0040	AO ≤ 5	0.0040	mg/L	2023-08-16	
Vell #5 (23H1376	-02) Matrix: Water Sai	mpled: 2023-08-09	9 09:00				
Inions							
Chloride		10.7	AO ≤ 250	0.10	mg/L	2023-08-11	
Fluoride		0.34	MAC = 1.5		mg/L	2023-08-11	
Nitrate (as N)		< 0.010	MAC = 10	0.010		2023-08-11	
Nitrite (as N)		< 0.010	MAC = 1	0.010		2023-08-11	
Sulfate		31.9	AO ≤ 500		mg/L	2023-08-11	
Calculated Parame	ters						
Hardness, Total (a	s CaCO3)	193	None Required	0.500	mg/L	N/A	
Langelier Index	,	0.5	N/A	-5.0		2023-08-17	CT6
Solids, Total Disso	lved	265	AO ≤ 500	1.00	mg/L	N/A	
General Parameters Alkalinity, Total (as		212	N/A	1.0	mg/L	2023-08-12	
	hthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-08-12	
Alkalinity, Bicarbor			N/A		mg/L		
,,, 2.00		212		1.0	9/ =	2023-08-12	
Alkalinity Carbona		212 < 1.0			ma/l	2023-08-12	
-	ite (as CaCO3)	< 1.0	N/A	1.0	mg/L mg/l	2023-08-12	
Alkalinity, Hydroxid	ite (as CaCO3)	< 1.0 < 1.0	N/A N/A	1.0 1.0	mg/L	2023-08-12 2023-08-12	
Alkalinity, Hydroxid Colour, True	ite (as CaCO3)	< 1.0 < 1.0 < 5.0	N/A N/A AO ≤ 15	1.0 1.0 5.0	mg/L CU	2023-08-12 2023-08-12 2023-08-12	
Alkalinity, Hydroxic Colour, True Conductivity (EC)	ite (as CaCO3)	< 1.0 < 1.0 < 5.0 454	N/A N/A AO ≤ 15 N/A	1.0 1.0 5.0 2.0	mg/L CU μS/cm	2023-08-12 2023-08-12 2023-08-12 2023-08-12	
Alkalinity, Hydroxic Colour, True Conductivity (EC) Cyanide, Total	ite (as CaCO3)	< 1.0 < 1.0 < 5.0 454 < 0.0020	N/A N/A AO ≤ 15 N/A MAC = 0.2	1.0 1.0 5.0 2.0 0.0020	mg/L CU μS/cm mg/L	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11	HT2
Alkalinity, Hydroxic Colour, True Conductivity (EC) Cyanide, Total pH	ate (as CaCO3) de (as CaCO3)	< 1.0 < 1.0 < 5.0 454 < 0.0020 8.08	N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5	1.0 1.0 5.0 2.0 0.0020	mg/L CU μS/cm	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12	HT2 HT2
Alkalinity, Hydroxid Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph	ate (as CaCO3) de (as CaCO3)	< 1.0 < 1.0 < 5.0 454 < 0.0020	N/A N/A AO ≤ 15 N/A MAC = 0.2	1.0 1.0 5.0 2.0 0.0020 0.10	mg/L CU μS/cm mg/L pH units	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11	HT2 HT2
Cyanide, Total pH	ate (as CaCO3) de (as CaCO3)	< 1.0 < 1.0 < 5.0 454 < 0.0020 8.08 21.5	N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A	1.0 1.0 5.0 2.0 0.0020 0.10	mg/L CU µS/cm mg/L pH units °C	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-12	
Alkalinity, Hydroxid Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph Turbidity	ate (as CaCO3) de (as CaCO3)	< 1.0 < 1.0 < 5.0 454 < 0.0020 8.08 21.5	N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A	1.0 1.0 5.0 2.0 0.0020 0.10	mg/L CU μS/cm mg/L pH units °C NTU	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-12	
Alkalinity, Hydroxic Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph Turbidity	ate (as CaCO3) de (as CaCO3)	< 1.0 < 1.0 < 5.0 454 < 0.0020 8.08 21.5 0.56	N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A OG < 1	1.0 1.0 5.0 2.0 0.0020 0.10	mg/L CU μS/cm mg/L pH units °C NTU	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-12 2023-08-10	
Alkalinity, Hydroxic Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph Turbidity fotal Metals Aluminum, total Antimony, total	ate (as CaCO3) de (as CaCO3)	< 1.0 < 1.0 < 5.0 454 < 0.0020 8.08 21.5 0.56	N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A OG < 1	1.0 1.0 5.0 2.0 0.0020 0.10 0.10	mg/L CU μS/cm mg/L pH units °C NTU mg/L mg/L	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-10 2023-08-16	
Alkalinity, Hydroxid Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph Turbidity otal Metals Aluminum, total Antimony, total Arsenic, total	ate (as CaCO3) de (as CaCO3)	<1.0 <1.0 <5.0 454 <0.0020 8.08 21.5 0.56 <0.0050 <0.00020	N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A OG < 1 OG < 0.1 MAC = 0.006	1.0 1.0 5.0 2.0 0.0020 0.10 0.0050 0.00020	mg/L CU µS/cm mg/L pH units °C NTU mg/L mg/L mg/L mg/L	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-10 2023-08-16 2023-08-16	
Alkalinity, Hydroxic Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph Turbidity otal Metals Aluminum, total Antimony, total Barium, total	ate (as CaCO3) de (as CaCO3)	<1.0 <1.0 <5.0 454 <0.0020 8.08 21.5 0.56 <0.0050 <0.00228	N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A OG < 1 OG < 0.1 MAC = 0.006 MAC = 0.01 MAC = 2	1.0 1.0 5.0 2.0 0.0020 0.10 0.0050 0.00050 0.00050	mg/L CU µS/cm mg/L pH units °C NTU mg/L mg/L mg/L mg/L mg/L mg/L	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-10 2023-08-16 2023-08-16 2023-08-16 2023-08-16	
Alkalinity, Hydroxic Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph Turbidity otal Metals Aluminum, total Antimony, total Arsenic, total Barium, total Boron, total	ate (as CaCO3) de (as CaCO3)	<1.0 <1.0 <1.0 <5.0 454 <0.0020 8.08 21.5 0.56 <0.0050 <0.00020 0.00228 0.101	N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A OG < 1 OG < 0.1 MAC = 0.006 MAC = 0.01	1.0 1.0 5.0 2.0 0.0020 0.10 0.0050 0.00050	mg/L CU μS/cm mg/L pH units °C NTU mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-10 2023-08-16 2023-08-16 2023-08-16	
Alkalinity, Hydroxic Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph Turbidity Cotal Metals Aluminum, total Antimony, total Barium, total Boron, total	ate (as CaCO3) de (as CaCO3)	<1.0 <1.0 <1.0 <5.0 454 <0.0020 8.08 21.5 0.56 <0.0050 <0.00020 0.00228 0.101 <0.0500	N/A N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A OG < 1 OG < 0.1 MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5	1.0 1.0 5.0 2.0 0.0020 0.10 0.10 0.0050 0.00020 0.00050 0.0050 0.00500	mg/L CU μS/cm mg/L pH units °C NTU mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-10 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16	
Alkalinity, Hydroxic Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph Turbidity Cotal Metals Aluminum, total Antimony, total Barium, total Boron, total Cadmium, total	ate (as CaCO3) de (as CaCO3)	<1.0 <1.0 <1.0 <5.0 454 <0.0020 8.08 21.5 0.56 <0.0050 <0.00020 0.00228 0.101 <0.0500 <0.00010	N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A OG < 1 OG < 0.1 MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007	1.0 1.0 5.0 2.0 0.0020 0.10 0.10 0.0050 0.00020 0.00050 0.0050 0.00500	mg/L CU μS/cm mg/L pH units °C NTU mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-10 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16	
Alkalinity, Hydroxic Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph Turbidity Cotal Metals Aluminum, total Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total	ate (as CaCO3) de (as CaCO3)	<1.0 <1.0 <1.0 <5.0 454 <0.0020 8.08 21.5 0.56 <0.0050 <0.00020 0.00228 0.101 <0.0500 <0.00010 44.5	N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A OG < 1 OG < 0.1 MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required	1.0 1.0 5.0 2.0 0.0020 0.10 0.10 0.0050 0.00020 0.00050 0.0050 0.00500 0.000010	mg/L CU µS/cm mg/L pH units °C NTU mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-10 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16	
Alkalinity, Hydroxic Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at ph Turbidity total Metals Aluminum, total Antimony, total Arsenic, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total	ate (as CaCO3) de (as CaCO3)	<1.0 <1.0 <1.0 <5.0 454 <0.0020 8.08 21.5 0.56 <0.0050 <0.00020 0.00228 0.101 <0.0500 <0.00010 44.5 <0.00050	N/A N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A OG < 1 OG < 0.1 MAC = 0.006 MAC = 0.01 MAC = 2 MAC = 5 MAC = 0.007 None Required MAC = 0.05	1.0 1.0 5.0 2.0 0.0020 0.10 0.0050 0.00050 0.0050 0.0050 0.000010 0.20	mg/L CU µS/cm mg/L pH units °C NTU mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-10 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16 2023-08-16	



PROJECT General Potability				WORK ORDER REPORTED	23H1376 2023-08-1	7 14:01
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Well #5 (23H1376-02) Matrix: Water Sa	mpled: 2023-08-09	9 09:00, Continued				
Total Metals, Continued						
Lead, total	0.00071	MAC = 0.005	0.00020	mg/L	2023-08-16	
Magnesium, total	19.7	None Required	0.010	mg/L	2023-08-16	
Manganese, total	0.142	MAC = 0.12	0.00020	mg/L	2023-08-16	
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2023-08-16	HG1
Molybdenum, total	0.00597	N/A	0.00010	mg/L	2023-08-16	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2023-08-16	
Potassium, total	4.81	N/A	0.10	mg/L	2023-08-16	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-08-16	
Sodium, total	24.1	AO ≤ 200	0.10	mg/L	2023-08-16	
Strontium, total	0.557	MAC = 7	0.0010	mg/L	2023-08-16	
Uranium, total	0.00276	MAC = 0.02	0.000020	mg/L	2023-08-16	
Zinc, total	0.0104	AO ≤ 5	0.0040	mg/L	2023-08-16	
Anions Chlorida	5.47	AO < 250	0.10	ma/l	2023_08_11	
Chloride	5.47	AO ≤ 250		mg/L	2023-08-11	
Fluoride	0.40	MAC = 1.5		mg/L	2023-08-11	
Nitrate (as N)	< 0.010	MAC = 10	0.010		2023-08-11	
Nitrite (as N)	< 0.010	MAC = 1	0.010		2023-08-11	
Sulfate	32.9	AO ≤ 500	1 ()	mg/L	2023-08-11	
			1.0		2023-00-11	
			1.0		2023-00-11	
	233	None Required	0.500		N/A	
Calculated Parameters						CT6
Calculated Parameters Hardness, Total (as CaCO3)	233	None Required	0.500 -5.0		N/A	CT6
Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	233 0.5	None Required N/A	0.500 -5.0	mg/L	N/A 2023-08-17	СТ6
Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	233 0.5	None Required N/A	0.500 -5.0 1.00	mg/L	N/A 2023-08-17	CT6
Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters	233 0.5 298	None Required N/A AO ≤ 500	0.500 -5.0 1.00	mg/L	N/A 2023-08-17 N/A	CT6
Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3)	233 0.5 298	None Required N/A AO ≤ 500 N/A	0.500 -5.0 1.00	mg/L mg/L mg/L	N/A 2023-08-17 N/A 2023-08-12	CT6
Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters Alkalinity, Total (as CaCO3) Alkalinity, Phenolphthalein (as CaCO3)	233 0.5 298 256 < 1.0	None Required N/A AO ≤ 500 N/A N/A	0.500 -5.0 1.00 1.0 1.0	mg/L mg/L mg/L	N/A 2023-08-17 N/A 2023-08-12 2023-08-12	CT6
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)	233 0.5 298 256 < 1.0 256	None Required N/A AO ≤ 500 N/A N/A N/A N/A	0.500 -5.0 1.00 1.0 1.0 1.0	mg/L mg/L mg/L mg/L mg/L	N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12	CT6
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)	233 0.5 298 256 < 1.0 256 < 1.0	None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A	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	N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12 2023-08-12	CT6
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)	233 0.5 298 256 < 1.0 256 < 1.0 < 1.0	None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A N/A N/A	0.500 -5.0 1.00 1.0 1.0 1.0 1.0 1.0 5.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12	CT6
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) Colour, True	233 0.5 298 256 < 1.0 256 < 1.0 < 1.0 < 5.0	None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A A/A AO ≤ 15	0.500 -5.0 1.00 1.0 1.0 1.0 1.0 1.0 5.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L cU	N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12	CT6
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) Colour, True Conductivity (EC) Cyanide, Total pH	233 0.5 298 256 < 1.0 256 < 1.0 < 1.0 < 5.0 513	None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A N/A N	0.500 -5.0 1.00 1.0 1.0 1.0 1.0 5.0 2.0 0.0020	mg/L mg/L mg/L mg/L mg/L mg/L mg/L cU µS/cm	N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12	CT6
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) Colour, True Conductivity (EC) Cyanide, Total	233 0.5 298 256 <1.0 256 <1.0 <1.0 <5.0 513 <0.0020	None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A N/A N	0.500 -5.0 1.00 1.0 1.0 1.0 1.0 5.0 2.0 0.0020	mg/L mg/L mg/L mg/L mg/L mg/L cu	N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11	
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) Colour, True Conductivity (EC) Cyanide, Total pH	233 0.5 298 256 < 1.0 256 < 1.0 < 5.0 513 < 0.0020 8.14	None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5	0.500 -5.0 1.00 1.0 1.0 1.0 1.0 5.0 2.0 0.0020 0.10	mg/L mg/L mg/L mg/L mg/L mg/L cU µS/cm mg/L pH units	N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-11 2023-08-12	HT2
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) Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at pH Turbidity	233 0.5 298 256 <1.0 256 <1.0 <1.0 <5.0 513 <0.0020 8.14 21.8	None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A	0.500 -5.0 1.00 1.0 1.0 1.0 1.0 5.0 2.0 0.0020 0.10	mg/L mg/L mg/L mg/L mg/L mg/L cU	N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12	HT2
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) Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at pH Turbidity	233 0.5 298 256 <1.0 256 <1.0 <1.0 <5.0 513 <0.0020 8.14 21.8	None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A	0.500 -5.0 1.00 1.0 1.0 1.0 1.0 5.0 2.0 0.0020 0.10	mg/L mg/L mg/L mg/L mg/L mg/L cU	N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12	HT2
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) Colour, True Conductivity (EC) Cyanide, Total pH Temperature, at pH Turbidity Total Metals	233 0.5 298 256 < 1.0 256 < 1.0 < 5.0 513 < 0.0020 8.14 21.8 0.84	None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A AO ≤ 15 N/A MAC = 0.2 7.0-10.5 N/A OG < 1	0.500 -5.0 1.00 1.0 1.0 1.0 1.0 1.0 5.0 2.0 0.0020 0.10	mg/L mg/L mg/L mg/L mg/L mg/L cu	N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-12 2023-08-11 2023-08-12 2023-08-11 2023-08-12 2023-08-10	HT2



REPORTED TO	Osoyoos, Town of	WORK ORDER	23H1376
PROJECT	General Potability	REPORTED	2023-08-17 14:01

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #4 (23H1376-03) Matrix: Water Sa	ampled: 2023-08-09	9 09:05, Continued				
Total Metals, Continued						
Barium, total	0.155	MAC = 2	0.0050	mg/L	2023-08-16	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-08-16	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2023-08-16	
Calcium, total	39.3	None Required	0.20	mg/L	2023-08-16	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-08-16	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2023-08-16	
Copper, total	< 0.00040	MAC = 2	0.00040	mg/L	2023-08-16	
Iron, total	0.295	AO ≤ 0.3	0.010	mg/L	2023-08-16	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-08-16	
Magnesium, total	32.6	None Required	0.010	mg/L	2023-08-16	
Manganese, total	0.131	MAC = 0.12	0.00020	mg/L	2023-08-16	
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2023-08-16	HG1
Molybdenum, total	0.00740	N/A	0.00010	mg/L	2023-08-16	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2023-08-16	
Potassium, total	5.85	N/A	0.10	mg/L	2023-08-16	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-08-16	
Sodium, total	26.3	AO ≤ 200		mg/L	2023-08-16	
<u>'</u>		1440 7			2023-08-16	
Strontium, total	0.675	MAC = 7	0.0010	IIIQ/L	2023-00-10	
Strontium, total Uranium, total	0.675	MAC = 7 MAC = 0.02	0.0010		2023-08-16	
Uranium, total Zinc, total	0.000807 < 0.0040	MAC = 0.02 AO ≤ 5	0.0010	mg/L		
Uranium, total Zinc, total Vell #8 (23H1376-04) Matrix: Water Sa	0.000807 < 0.0040	MAC = 0.02 AO ≤ 5	0.000020	mg/L	2023-08-16	
Uranium, total Zinc, total Vell #8 (23H1376-04) Matrix: Water Sa	0.000807 < 0.0040 ampled: 2023-08-09	MAC = 0.02 AO ≤ 5	0.000020 0.0040	mg/L mg/L	2023-08-16 2023-08-16	
Uranium, total Zinc, total Vell #8 (23H1376-04) Matrix: Water Sa	0.000807 < 0.0040 ampled: 2023-08-09	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250	0.000020 0.0040 0.10	mg/L mg/L	2023-08-16 2023-08-16 2023-08-11	
Uranium, total Zinc, total Well #8 (23H1376-04) Matrix: Water Sa Anions Chloride Fluoride	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20	MAC = 0.02 AO ≤ 5	0.000020 0.0040 0.10 0.10	mg/L mg/L mg/L mg/L	2023-08-16 2023-08-16 2023-08-11 2023-08-11	
Uranium, total Zinc, total Vell #8 (23H1376-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N)	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5	0.000020 0.0040 0.10 0.10 0.010	mg/L mg/L mg/L mg/L mg/L mg/L	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11	
Uranium, total Zinc, total Vell #8 (23H1376-04) Matrix: Water Sa Inions Chloride Fluoride	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10	0.000020 0.0040 0.10 0.10 0.010 0.010	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11	
Uranium, total Zinc, total Vell #8 (23H1376-04) Matrix: Water Salanions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1	0.000020 0.0040 0.10 0.10 0.010 0.010	mg/L mg/L mg/L mg/L mg/L mg/L	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11	
Uranium, total Zinc, total Nell #8 (23H1376-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010 32.2	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.000020 0.0040 0.10 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11	
Uranium, total Zinc, total Nell #8 (23H1376-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3)	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010 32.2	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.000020 0.0040 0.10 0.10 0.010 0.010 1.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11 N/A	CT6
Uranium, total Zinc, total Nell #8 (23H1376-04) Matrix: Water Sa Anions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010 32.2 158 0.3	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A	0.000020 0.0040 0.10 0.10 0.010 1.0 0.500 -5.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11 N/A 2023-08-17	CT6
Uranium, total Zinc, total Vell #8 (23H1376-04) Matrix: Water Satarions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010 32.2	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500	0.000020 0.0040 0.10 0.10 0.010 1.0 0.500 -5.0	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11 N/A	CT6
Uranium, total Zinc, total Nell #8 (23H1376-04) Matrix: Water Sanions Chloride Fluoride Nitrate (as N) Nitrite (as N) Sulfate Calculated Parameters Hardness, Total (as CaCO3) Langelier Index Solids, Total Dissolved General Parameters	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010 32.2 158 0.3 229	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500	0.000020 0.0040 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	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11 N/A 2023-08-17 N/A	CT6
Uranium, total Zinc, total Vell #8 (23H1376-04) Matrix: Water Sata 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)	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010 32.2 158 0.3 229	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500	0.000020 0.0040 0.010 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	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11 N/A 2023-08-17 N/A	CT6
Uranium, total Zinc, total Vell #8 (23H1376-04) Matrix: Water Satarions 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)	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010 32.2 158 0.3 229 170 < 1.0	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500 N/A AO ≤ 500	0.000020 0.0040 0.10 0.10 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	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11 N/A 2023-08-17 N/A 2023-08-12 2023-08-12	CT6
Uranium, total Zinc, total Vell #8 (23H1376-04) Matrix: Water Satanions 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)	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010 32.2 158 0.3 229 170 < 1.0 170	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500 N/A N/A N/A N/A	0.000020 0.0040 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 mg/L	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11 2023-08-11 N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12	CT6
Uranium, total Zinc, total Nell #8 (23H1376-04) Matrix: Water Satarions 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)	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010 32.2 158 0.3 229 170 < 1.0 170 < 1.0	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500 N/A N/A N/A N/A N/A N/A	0.000020 0.0040 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	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12 2023-08-12	CT6
Uranium, total Zinc, total Nell #8 (23H1376-04) Matrix: Water Satarions 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)	0.000807 < 0.0040 ampled: 2023-08-09 12.0 0.20 0.233 < 0.010 32.2 158 0.3 229 170 < 1.0 170	MAC = 0.02 AO ≤ 5 9 09:00 AO ≤ 250 MAC = 1.5 MAC = 10 MAC = 1 AO ≤ 500 None Required N/A AO ≤ 500 N/A N/A N/A N/A	0.000020 0.0040 0.10 0.10 0.010 0.010 1.0 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	2023-08-16 2023-08-16 2023-08-11 2023-08-11 2023-08-11 2023-08-11 2023-08-11 N/A 2023-08-17 N/A 2023-08-12 2023-08-12 2023-08-12	CT6



REPORTED TO	Osoyoos, Town of	WORK ORDER	23H1376
PROJECT	General Potability	REPORTED	2023-08-17 14:01

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Well #8 (23H1376-04) Matrix: Water	Sampled: 2023-08-0	9 09:00, Continued				
General Parameters, Continued						
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-08-11	
pH	8.04	7.0-10.5	0.10	pH units	2023-08-12	HT2
Temperature, at pH	22.2	N/A		°C	2023-08-12	HT2
Turbidity	0.34	OG < 1	0.10	NTU	2023-08-10	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-08-16	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-08-16	
Arsenic, total	0.00212	MAC = 0.01	0.00050	mg/L	2023-08-16	
Barium, total	0.0474	MAC = 2	0.0050	mg/L	2023-08-16	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-08-16	
Cadmium, total	0.000031	MAC = 0.007	0.000010	mg/L	2023-08-16	
Calcium, total	41.2	None Required	0.20	mg/L	2023-08-16	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-08-16	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2023-08-16	
Copper, total	0.00813	MAC = 2	0.00040	mg/L	2023-08-16	
Iron, total	0.028	AO ≤ 0.3	0.010	mg/L	2023-08-16	
Lead, total	0.00049	MAC = 0.005	0.00020	mg/L	2023-08-16	
Magnesium, total	13.3	None Required	0.010	mg/L	2023-08-16	
Manganese, total	0.144	MAC = 0.12	0.00020	mg/L	2023-08-16	
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2023-08-16	HG1
Molybdenum, total	0.00686	N/A	0.00010	mg/L	2023-08-16	
Nickel, total	0.00056	N/A	0.00040	mg/L	2023-08-16	
Potassium, total	3.84	N/A	0.10	mg/L	2023-08-16	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-08-16	
Sodium, total	21.9	AO ≤ 200	0.10	mg/L	2023-08-16	
Strontium, total	0.430	MAC = 7	0.0010	mg/L	2023-08-16	
Uranium, total	0.00297	MAC = 0.02	0.000020	mg/L	2023-08-16	
Zinc, total	0.0327	AO ≤ 5	0.0040	mg/L	2023-08-16	

Well #6 (23H1376-05) | Matrix: Water | Sampled: 2023-08-09 09:35

Anions						
Chloride	17.2	AO ≤ 250	0.10	mg/L	2023-08-11	
Fluoride	0.35	MAC = 1.5	0.10	mg/L	2023-08-11	
Nitrate (as N)	2.01	MAC = 10	0.010	mg/L	2023-08-11	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-08-11	
Sulfate	56.7	AO ≤ 500	1.0	mg/L	2023-08-11	
Calculated Parameters						
Hardness, Total (as CaCO3)	299	None Required	0.500	mg/L	N/A	
Langelier Index	0.7	N/A	-5.0		2023-08-17	CT6
Solids, Total Dissolved	402	AO ≤ 500	1.00	mg/L	N/A	



REPORTED TO	Osoyoos, Town of	WORK ORDER	23H1376	
PROJECT	General Potability	REPORTED	2023-08-17	14:01

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifie
Well #6 (23H1376-05) Matrix: Water Sa	ımpled: 2023-08-0	9 09:35, Continued				
General Parameters						
Alkalinity, Total (as CaCO3)	293	N/A	1.0	mg/L	2023-08-12	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-08-12	
Alkalinity, Bicarbonate (as CaCO3)	293	N/A	1.0	mg/L	2023-08-12	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-08-12	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-08-12	
Colour, True	< 5.0	AO ≤ 15	5.0	CU	2023-08-12	
Conductivity (EC)	657	N/A	2.0	μS/cm	2023-08-12	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-08-11	
pH	8.03	7.0-10.5	0.10	pH units	2023-08-12	HT2
Temperature, at pH	21.8	N/A		°C	2023-08-12	HT2
Turbidity	< 0.10	OG < 1	0.10	NTU	2023-08-10	
otal Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-08-16	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-08-16	
Arsenic, total	0.00489	MAC = 0.01	0.00050	mg/L	2023-08-16	
Barium, total	0.0700	MAC = 2	0.0050	mg/L	2023-08-16	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-08-16	
Cadmium, total	0.000029	MAC = 0.007	0.000010	mg/L	2023-08-16	
Calcium, total	66.0	None Required	0.20	mg/L	2023-08-16	
Chromium, total	0.00051	MAC = 0.05	0.00050	mg/L	2023-08-16	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2023-08-16	
Copper, total	0.00275	MAC = 2	0.00040	mg/L	2023-08-16	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-08-16	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-08-16	
Magnesium, total	32.6	None Required	0.010	mg/L	2023-08-16	
Manganese, total	0.0879	MAC = 0.12	0.00020	mg/L	2023-08-16	
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2023-08-16	HG1
Molybdenum, total	0.0125	N/A	0.00010	mg/L	2023-08-16	
Nickel, total	0.00075	N/A	0.00040	mg/L	2023-08-16	
Potassium, total	6.42	N/A		mg/L	2023-08-16	
Selenium, total	0.00054	MAC = 0.05	0.00050	mg/L	2023-08-16	
Sodium, total	35.4	AO ≤ 200		mg/L	2023-08-16	
Strontium, total	0.854	MAC = 7	0.0010		2023-08-16	
Uranium, total	0.00629	MAC = 0.02	0.000020		2023-08-16	
Zinc, total	0.0060	AO ≤ 5	0.0040	ma/L	2023-08-16	

Well #1 (23H1376-06) | Matrix: Water | Sampled: 2023-08-09 09:50

Anions					
Chloride	38.7	AO ≤ 250	0.10 mg/L	2023-08-11	
Fluoride	0.27	MAC = 1.5	0.10 mg/L	2023-08-11	
Nitrate (as N)	4.94	MAC = 10	0.010 mg/L	2023-08-11	



Maintyte Matrix: Water Sampled: 2023-08-09 09:50, Continued	REPORTED TO PROJECT	Osoyoos, Town of General Potability				WORK ORDER REPORTED	23H1376 2023-08-	17 14:01
Nitrite (as N)	Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
Nitrite (as N)	Well #1 (23H1376	6-06) Matrix: Water Sar	mpled: 2023-08-0	9 09:50, Continued				
Sulfate 62.0 AO ≤ 500 1.0 mg/L 2023-08-11 Calculated Parameters Hardness, Total (as CaCO3) 280 None Required 0.500 mg/L NA Langelier Index 0.6 N/A 4-5.0 2023-08-17 CT6 Solids, Total Dissolved 398 AO ≤ 500 1.00 mg/L N/A Alkalinity, Total (as CaCO3) 220 N/A 1.0 mg/L 2023-08-12 Alkalinity, Phenolphthalien (as CaCO3) 220 N/A 1.0 mg/L 2023-08-12 Alkalinity, Bearbonate (as CaCO3) 210 N/A 1.0 mg/L 2023-08-12 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Colour, True < 5.0 AO ≤ 15 5.0 CU 2023-08-12 Conductivity (EC) 655 N/A 2.0 µS/cm 2023-08-12 Cyanide, Total 7.98	Anions, Continued	1						
Sulfate 62.0 AO ≤ 500 1.0 mg/L 2023-08-11 Calculated Parameters Hardness, Total (as CaCO3) 280 None Required 0.500 mg/L NA Langelier Index 0.6 N/A 4-5.0 2023-08-17 CT6 Solids, Total Dissolved 398 AO ≤ 500 1.00 mg/L N/A Alkalinity, Total (as CaCO3) 220 N/A 1.0 mg/L 2023-08-12 Alkalinity, Phenolphthalien (as CaCO3) 220 N/A 1.0 mg/L 2023-08-12 Alkalinity, Bearbonate (as CaCO3) 210 N/A 1.0 mg/L 2023-08-12 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Colour, True < 5.0 AO ≤ 15 5.0 CU 2023-08-12 Conductivity (EC) 655 N/A 2.0 µS/cm 2023-08-12 Cyanide, Total 7.98	Nitrite (as N)		< 0.010	MAC = 1	0.010	ma/L	2023-08-11	
Calculated Parameters Hardness, Total (as CaCO3) 280 None Required 0.500 mg/L N/A Langelier Index 0.6 N/A -5.0 2023-08-17 CT6 Solids, Total Dissolved 398 AO ≤ 500 1.00 mg/L N/A Ceneral Parameters Alkalinity, Data (as CaCO3) 220 N/A 1.0 mg/L 2023-08-12 Alkalinity, Phenolphthalein (as CaCO3) 210 N/A 1.0 mg/L 2023-08-12 Alkalinity, Phenolphthalein (as CaCO3) 210 N/A 1.0 mg/L 2023-08-12 Alkalinity, Phenolphthalein (as CaCO3) 4.10 N/A 1.0 mg/L 2023-08-12 Alkalinity, Phenolphthalein (as CaCO3) 4.10 N/A 1.0 mg/L 2023-08-12 Alkalinity, Phenolphthalein (as CaCO3) 4.10 N/A 1.0 mg/L 2023-08-12 Alkalinity, Carbonate (as CaCO3) 4.10 N/A 1.0 mg/L 2023-08-12 Colour, True < 5.0								
Hardness, Total (as CaCO3) 280 None Required 0.50 mg/L N/A Langelier Index 0.6 N/A -5.0 2023-08-17 CT6 Solids, Total Dissolved 398 AO ≤ 500 1.00 mg/L 2023-08-12 Foreral Parameters Cemeral Parameters Semeral Parameters Semeral Parameters Semeral Parameters Alkalinity, Total (as CaCO3) 220 N/A 1.0 mg/L 2023-08-12 Alkalinity, Bicarbonate (as CaCO3) 3.1 N/A 1.0 mg/L 2023-08-12 Alkalinity, Edophante (as CaCO3) < 1.0	Coloulated Barama	••••••••••••••••••••••••••••••••••••••						
Langelier Index 0.6 N/A -5.0 2023-08-17 CT6 Solids, Total Dissolved 398 AO ≤ 500 1.00 mg/L N/A General Parameters Alkalinity, Parameters Semanters Semanters N/A 1.0 mg/L 2023-08-12 Alkalinity, Phenolphthalein (as CaCO3) <1.0 N/A 1.0 mg/L 2023-08-12 Alkalinity, Bicarbonate (as CaCO3) <1.0 N/A 1.0 mg/L 2023-08-12 Alkalinity, Hydroxide (as CaCO3) <1.0 N/A 1.0 mg/L 2023-08-12 Colour, True <5.0 AO ≤ 15 5.0 CU 2023-08-12 Conductivity (EC) 655 N/A 2.0 μ/Em 2023-08-12 HT2 Temperature, at pH 7.98 7.0-10.5 0.10 pH units 2023-08-12 HT2 Turbidity < 0.10 OG < 1 0.005 mg/L 2023-08-16 HT2 Temperature, at pH 21.5 N/A °C 2023-08-16			000	Name Bandard	0.500		N1/A	
Solids, Total Dissolved 398 AO ≤ 500 1.00 mg/L N/A General Parameters Alkalinity, Total (as CaCO3) 220 N/A 1.0 mg/L 2023-08-12 Alkalinity, Benchpolphthalein (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Alkalinity, Bicarbonate (as CaCO3) 220 N/A 1.0 mg/L 2023-08-12 Alkalinity, Hydroide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Colour, True < 5.0 AO ≤ 15 5.0 CU 2023-08-12 Conductivity (EC) 656 N/A 2.0 yi/Grm 2023-08-12 Conductivity (EC) 656 N/A 2.0 yi/Grm 2023-08-12 HT2 PH 7.98 7.0-10.5 0.10 pH units 2023-08-12 HT2 Temperature, at pH 7.98 7.0-10.5 0.10 pH units 2023-08-12 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-08-12 HT2 Turbidity < 0.10 OG < 1	<u>`</u>	as CaCO3)				mg/L		OTC.
Alkalinity, Total (as CaCO3) 220 N/A 1.0 mg/L 2023-08-12		-ha-d						C16
Alkalinity, Total (as CaCO3) 220 NI/A 1.0 mg/L 2023-08-12 Alkalinity, Phenolphthalein (as CaCO3) < 1.0	Solids, Iolai Disso	oivea	398	AO ≤ 500	1.00	mg/L	IN/A	
Alkalinity, Phenolphthalein (as CaCO3)	General Parameter	rs						
Alkalinity, Bicarbonate (as CaCO3) 220 N/A 1.0 mg/L 2023-08-12 Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Colour, True < 5.0 AO ≤ 15 5.0 CU 2023-08-12 Conductivity (EC) 655 N/A 2.0 μS/cm 2023-08-12 Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2023-08-12 HT2 Temperature, at pH 7.98 7.0-10.5 0.10 pH units 2023-08-12 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-08-12 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-08-12 HT2 Turbidity < 0.10 OG < 1 0.0050 mg/L 2023-08-16 MC Aluminum, total < 0.0050 OG < 0.1 0.0050 mg/L 2023-08-16 Accessory Arsenic, total < 0.00435 MAC = 0.01 0.00050 mg/L 2023-08-16 Accessory Barium, total	Alkalinity, Total (as	s CaCO3)	220	N/A	1.0	mg/L	2023-08-12	
Alkalinity, Carbonate (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Alkalinity, Hydroxide (as CaCO3) < 1.0 N/A 1.0 mg/L 2023-08-12 Colour, True < 5.0 AO ≤ 15 5.0 CU 2023-08-12 Conductivity (EC) 655 N/A 2.0 µS/cm 2023-08-12 Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2023-08-11 pH 7.98 7.0-10.5 0.10 pH units 2023-08-12 HT2 Temperature, at pH 21.5 N/A °C 2023-08-12 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-08-16 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-08-16 HT2 Turbidity < 0.00 OG < 0.1 0.0050 mg/L 2023-08-16 HT2 Turbidity < 0.0050 OG < 0.1 0.0050 mg/L 2023-08-16 Aluminum, total < 0.0050 <	Alkalinity, Phenolp	ohthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-08-12	
Alkalinity, Hydroxide (as CaCO3)			220	N/A	1.0	mg/L	2023-08-12	
Colour, True < 5.0 AO ≤ 15 5.0 CU 2023-08-12 Conductivity (EC) 665 N/A 2.0 µS/cm 2023-08-12 Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2023-08-12 PH 7.98 7.0-10.5 0.10 pH units 2023-08-12 HT2 Temperature, at pH 21.5 N/A °C 2023-08-12 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-08-12 HT2 Total Metals Aluminum, total < 0.0050 OG < 1 0.10 NTU 2023-08-10 Total Metals Aluminum, total < 0.0050 OG < 0.1 0.0050 mg/L 2023-08-16 Antimony, total < 0.0050 MAC = 0.001 0.0050 mg/L 2023-08-16 Arsenic, total < 0.00455 MAC = 2 0.0050 mg/L 2023-08-16 Barium, total < 0.0535 MAC = 2 0.0050 mg/L 2023-08-16 Boron, total <th< td=""><td>Alkalinity, Carbona</td><td>ate (as CaCO3)</td><td>< 1.0</td><td>N/A</td><td>1.0</td><td>mg/L</td><td>2023-08-12</td><td></td></th<>	Alkalinity, Carbona	ate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-08-12	
Conductivity (EC) 655 N/A 2.0 µS/cm 2023-08-12 Cyanide, Total < 0.0020	Alkalinity, Hydroxi	de (as CaCO3)	< 1.0	N/A			2023-08-12	
Cyanide, Total < 0.0020 MAC = 0.2 0.0020 mg/L 2023-08-11 pH 7.98 7.0-10.5 0.10 pH units 2023-08-12 HT2 Temperature, at pH 21.5 N/A °C 2023-08-10 2023-08-12 HT2 Turbidity < 0.10 OG < 1 0.10 NTU 2023-08-10			< 5.0	AO ≤ 15			2023-08-12	
pH 7.98 7.0-10.5 0.10 pH units 2023-08-12 PHT2 HT2 Temperature, at pH 21.5 N/A °C 2023-08-12 PHT2 HT2 Turbidity < 0.10	Conductivity (EC)		655	N/A	2.0	μS/cm	2023-08-12	
Temperature, at pH 21.5 N/A °C 2023-08-12 HT2 Turbidity < 0.10	Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	mg/L	2023-08-11	
Turbidity < 0.10 OG < 1 0.10 NTU 2023-08-10 Total Metals Aluminum, total < 0.0050	pH		7.98	7.0-10.5	0.10	pH units	2023-08-12	HT2
Total Metals Aluminum, total < 0.0050	Temperature, at p	Н	21.5	N/A		°C	2023-08-12	HT2
Aluminum, total < 0.0050 OG < 0.1 0.0050 mg/L 2023-08-16 Antimony, total < 0.00020	Turbidity		< 0.10	OG < 1	0.10	NTU	2023-08-10	
Antimony, total < 0.00020 MAC = 0.006 0.00020 mg/L 2023-08-16 Arsenic, total 0.00435 MAC = 0.01 0.00050 mg/L 2023-08-16 Barium, total 0.0535 MAC = 2 0.0050 mg/L 2023-08-16 Boron, total < 0.0500	Total Metals							
Antimony, total < 0.00020 MAC = 0.006 0.00020 mg/L 2023-08-16 Arsenic, total 0.00435 MAC = 0.01 0.00050 mg/L 2023-08-16 Barium, total 0.0535 MAC = 2 0.0050 mg/L 2023-08-16 Boron, total < 0.0500	Aluminum, total		< 0.0050	OG < 0.1	0.0050	ma/L	2023-08-16	
Arsenic, total 0.00435 MAC = 0.01 0.00050 mg/L 2023-08-16 Barium, total 0.0535 MAC = 2 0.0050 mg/L 2023-08-16 Boron, total < 0.0500				MAC = 0.006				
Barium, total 0.0535 MAC = 2 0.0500 mg/L 2023-08-16 Boron, total < 0.0500								
Boron, total < 0.0500 MAC = 5 0.0500 mg/L 2023-08-16 Cadmium, total 0.000027 MAC = 0.007 0.000010 mg/L 2023-08-16 Calcium, total 82.7 None Required 0.20 mg/L 2023-08-16 Chromium, total 0.00073 MAC = 0.05 0.00050 mg/L 2023-08-16 Cobalt, total < 0.00010 N/A 0.00010 mg/L 2023-08-16 Copper, total 0.00493 MAC = 2 0.00040 mg/L 2023-08-16 Iron, total < 0.010 AO ≤ 0.3 0.010 mg/L 2023-08-16 Lead, total < 0.00020 MAC = 0.005 0.00020 mg/L 2023-08-16 Magnesium, total 17.8 None Required 0.010 mg/L 2023-08-16 Manganese, total 0.00338 MAC = 0.12 0.00020 mg/L 2023-08-16 Mercury, total < 0.00040 MAC = 0.01 0.00020 mg/L 2023-08-16 HG1 Molybdenum, total 0.0135 N/A 0.00010 mg/L 2023-08-16 HG1 Nickel, total 0.00097 N/								
Cadmium, total 0.000027 MAC = 0.007 0.000010 mg/L 2023-08-16 Calcium, total 82.7 None Required 0.20 mg/L 2023-08-16 Chromium, total 0.00073 MAC = 0.05 0.00050 mg/L 2023-08-16 Cobalt, total < 0.00010				MAC = 5			2023-08-16	
Calcium, total 82.7 None Required 0.20 mg/L 2023-08-16 Chromium, total 0.00073 MAC = 0.05 0.00050 mg/L 2023-08-16 Cobalt, total < 0.00010				MAC = 0.007			2023-08-16	
Chromium, total 0.00073 MAC = 0.05 0.00050 mg/L 2023-08-16 Cobalt, total < 0.00010	Calcium, total		82.7	None Required			2023-08-16	
Cobalt, total < 0.00010 N/A 0.00010 mg/L 2023-08-16 Copper, total 0.00493 MAC = 2 0.00040 mg/L 2023-08-16 Iron, total < 0.010			0.00073	MAC = 0.05				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Cobalt, total		< 0.00010	N/A	0.00010	mg/L	2023-08-16	
Lead, total < 0.00020 MAC = 0.005 0.00020 mg/L 2023-08-16 Magnesium, total 17.8 None Required 0.010 mg/L 2023-08-16 Manganese, total 0.00338 MAC = 0.12 0.00020 mg/L 2023-08-16 Mercury, total < 0.000040	Copper, total		0.00493	MAC = 2	0.00040	mg/L	2023-08-16	
Magnesium, total 17.8 None Required 0.010 mg/L 2023-08-16 Manganese, total 0.00338 MAC = 0.12 0.00020 mg/L 2023-08-16 Mercury, total < 0.000040	Iron, total		< 0.010	AO ≤ 0.3	0.010	mg/L	2023-08-16	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Lead, total		< 0.00020	MAC = 0.005	0.00020	mg/L	2023-08-16	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Magnesium, total		17.8	None Required	0.010	mg/L	2023-08-16	
Molybdenum, total 0.0135 N/A 0.00010 mg/L 2023-08-16 Nickel, total 0.00097 N/A 0.00040 mg/L 2023-08-16 Potassium, total 5.91 N/A 0.10 mg/L 2023-08-16 Selenium, total 0.00065 MAC = 0.05 0.00050 mg/L 2023-08-16 Sodium, total 34.7 AO ≤ 200 0.10 mg/L 2023-08-16 Strontium, total 0.698 MAC = 7 0.0010 mg/L 2023-08-16	Manganese, total		0.00338	MAC = 0.12	0.00020	mg/L	2023-08-16	
Nickel, total 0.00097 N/A 0.00040 mg/L 2023-08-16 Potassium, total 5.91 N/A 0.10 mg/L 2023-08-16 Selenium, total 0.00065 MAC = 0.05 0.00050 mg/L 2023-08-16 Sodium, total 34.7 AO ≤ 200 0.10 mg/L 2023-08-16 Strontium, total 0.698 MAC = 7 0.0010 mg/L 2023-08-16	Mercury, total		< 0.000040	MAC = 0.001	0.000040	mg/L	2023-08-16	HG1
Potassium, total 5.91 N/A 0.10 mg/L 2023-08-16 Selenium, total 0.00065 MAC = 0.05 0.00050 mg/L 2023-08-16 Sodium, total 34.7 AO ≤ 200 0.10 mg/L 2023-08-16 Strontium, total 0.698 MAC = 7 0.0010 mg/L 2023-08-16	Molybdenum, tota	<u></u>	0.0135	N/A	0.00010	mg/L	2023-08-16	
Selenium, total 0.00065 MAC = 0.05 0.00050 mg/L 2023-08-16 Sodium, total 34.7 AO ≤ 200 0.10 mg/L 2023-08-16 Strontium, total 0.698 MAC = 7 0.0010 mg/L 2023-08-16	Nickel, total		0.00097	N/A	0.00040	mg/L	2023-08-16	
Sodium, total 34.7 AO ≤ 200 0.10 mg/L 2023-08-16 Strontium, total 0.698 MAC = 7 0.0010 mg/L 2023-08-16	Potassium, total		5.91	N/A	0.10	mg/L	2023-08-16	
Strontium, total 0.698 MAC = 7 0.0010 mg/L 2023-08-16	Selenium, total		0.00065	MAC = 0.05	0.00050	mg/L	2023-08-16	
	Sodium, total		34.7	AO ≤ 200	0.10	mg/L	2023-08-16	
Uranium, total 0.00676 MAC = 0.02 0.000020 mg/L 2023-08-16	Strontium, total		0.698	MAC = 7	0.0010	mg/L	2023-08-16	
	Uranium, total		0.00676	MAC = 0.02	0.000020	mg/L	2023-08-16	



Osoyoos, Town of **REPORTED TO PROJECT General Potability** **WORK ORDER**

23H1376

REPORTED

2023-08-17 14:01

Result Guideline **RL** Units Analyzed Qualifier **Analyte**

Well #1 (23H1376-06) | Matrix: Water | Sampled: 2023-08-09 09:50, Continued

Total Metals, Continued

AO ≤ 5 Zinc, total 0.0047 0.0040 mg/L 2023-08-16

Sample Qualifiers:

CT6 Results were based on lab temperature & lab pH.

HG1 Sample bottle and preservation submitted is not suitable for Mercury analysis and analyte stability may be affected.

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

recommended.



Osoyoos, Town of **REPORTED TO General Potability PROJECT**

WORK ORDER

23H1376

REPORTED

2023-08-17 14:01

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
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
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

°C Degrees Celcius AO Aesthetic Objective

CU Colour Units (referenced against a platinum cobalt standard)

MAC Maximum Acceptable Concentration (health based)

Milligrams per litre mg/L

NTU Nephelometric Turbidity Units OG Operational Guideline (treated water) pH < 7 = acidic, ph > 7 = basic pH units μS/cm Microsiemens per centimetre **ASTM ASTM International Test Methods**

EPA United States Environmental Protection Agency Test Methods

SMStandard Methods for the Examination of Water and Wastewater, American Public Health Association



REPORTED TO Osoyoos, Town of **PROJECT** General Potability

WORK ORDER REPORTED 23H1376

2023-08-17 14:01

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. 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. 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.





CERTIFICATE OF ANALYSIS

REPORTED TO Osoyoos, Town of

PO Box 3010

OSOYOOS, BC V0H 1V0

ATTENTION Kelly McDonald

Drinking Water PO NUMBER PROJECT General Potability

PROJECT INFO

WORK ORDER 2310281

2023-09-06 08:00 / 16.4°C **RECEIVED / TEMP REPORTED** 2023-09-11 14:01

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



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.

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.

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	Osoyoos, Town of	WORK ORDER	2310281
PROJECT	General Potability	REPORTED	2023-09-11 14:01

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifi
Well #3 (23l0281-01) Matrix: Water San	npled: 2023-09-05					
Anions						
Chloride	19.8	AO ≤ 250	0.10	mg/L	2023-09-06	
Fluoride	0.56	MAC = 1.5	0.10	mg/L	2023-09-06	
Nitrate (as N)	2.84	MAC = 10	0.010	mg/L	2023-09-06	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-09-06	
Sulfate	54.8	AO ≤ 500	1.0	mg/L	2023-09-06	
Calculated Parameters						
Hardness, Total (as CaCO3)	291	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	392	AO ≤ 500		mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	278	N/A	1.0	mg/L	2023-09-06	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-09-06	
Alkalinity, Bicarbonate (as CaCO3)	278	N/A		mg/L	2023-09-06	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2023-09-06	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2023-09-06	
Conductivity (EC)	676	N/A		μS/cm	2023-09-06	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	·	2023-09-11	
pH	7.97	7.0-10.5		pH units	2023-09-06	HT2
Turbidity	0.16	OG < 1		NTU	2023-09-06	
Fotal Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	ma/L	2023-09-09	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2023-09-09	
Arsenic, total	0.00138	MAC = 0.01	0.00050		2023-09-09	
Barium, total	0.0823	MAC = 2	0.0050		2023-09-09	
Boron, total	0.0543	MAC = 5	0.0500		2023-09-09	
Cadmium, total	0.000030	MAC = 0.007	0.000010		2023-09-09	
Calcium, total	80.8	None Required		mg/L	2023-09-09	
Chromium, total	0.00093	MAC = 0.05	0.00050		2023-09-09	
Copper, total	0.00968	MAC = 2	0.00040		2023-09-09	
Iron, total	< 0.010	AO ≤ 0.3	0.010		2023-09-09	
Lead, total	0.00020	MAC = 0.005	0.00020		2023-09-09	
Magnesium, total	21.6	None Required	0.010		2023-09-09	
Manganese, total	0.0426	MAC = 0.12	0.00020		2023-09-09	
Mercury, total	< 0.000040	MAC = 0.001	0.000040		2023-09-09	HG1
Potassium, total	6.36	N/A		mg/L	2023-09-09	-
Selenium, total	0.00154	MAC = 0.05	0.00050		2023-09-09	
Sodium, total	26.3	AO ≤ 200		mg/L	2023-09-09	
Strontium, total	0.896	MAC = 7	0.0010		2023-09-09	
Uranium, total	0.0106	MAC = 0.02	0.000020		2023-09-09	
Zinc, total	< 0.0040	AO ≤ 5	0.0040		2023-09-09	



Zinc, total

REPORTED TO Osoyoos, Town of PROJECT General Potability				WORK ORDER REPORTED	23I0281 2023-09-1	1 14:01
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
Well #4 (2310281-02) Matrix: Water Sam	pled: 2023-09-05	09:05				
Anions						
Chloride	5.77	AO ≤ 250	0.10	mg/L	2023-09-06	
Fluoride	0.56	MAC = 1.5		mg/L	2023-09-06	
Nitrate (as N)	< 0.010	MAC = 10	0.010		2023-09-06	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-09-06	
Sulfate	35.1	AO ≤ 500	1.0	mg/L	2023-09-06	
Calculated Parameters						
Hardness, Total (as CaCO3)	241	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	313	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	270	N/A	1.0	mg/L	2023-09-06	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-09-06	
Alkalinity, Bicarbonate (as CaCO3)	270	N/A	1.0	mg/L	2023-09-06	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-09-06	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2023-09-06	
Conductivity (EC)	573	N/A	2.0	μS/cm	2023-09-06	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-09-11	
рН	8.16	7.0-10.5	0.10	pH units	2023-09-06	HT2
Turbidity	0.88	OG < 1	0.10	NTU	2023-09-06	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-09-09	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-09-09	
Arsenic, total	0.00696	MAC = 0.01	0.00050	mg/L	2023-09-09	
Barium, total	0.160	MAC = 2	0.0050	mg/L	2023-09-09	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-09-09	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2023-09-09	
Calcium, total	42.0	None Required		mg/L	2023-09-09	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-09-09	
Copper, total	0.00054	MAC = 2	0.00040	mg/L	2023-09-09	
Iron, total	0.313	AO ≤ 0.3		mg/L	2023-09-09	
Lead, total	< 0.00020	MAC = 0.005	0.00020		2023-09-09	
Magnesium, total	32.9	None Required	0.010	mg/L	2023-09-09	
Manganese, total	0.136	MAC = 0.12	0.00020		2023-09-09	
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2023-09-09	HG1
Potassium, total	5.97	N/A	0.10	mg/L	2023-09-09	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-09-09	
Sodium, total	26.7	AO ≤ 200		mg/L	2023-09-09	
Strontium, total	0.693	MAC = 7	0.0010		2023-09-09	
Uranium, total	0.000809	MAC = 0.02	0.000020	mg/L	2023-09-09	

2023-09-09

AO ≤ 5

0.0040 mg/L

< 0.0040



REPORTED TO Osoyoos, Town of PROJECT General Potability				WORK ORDER REPORTED	23l0281 2023-09-1	1 14:01
Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
	npled: 2023-09-05	09:10				
Anions						
Chloride	10.4	AO ≤ 250	0.10	mg/L	2023-09-06	
Fluoride	0.51	MAC = 1.5		mg/L	2023-09-06	
Nitrate (as N)	< 0.010	MAC = 10	0.010		2023-09-06	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-09-06	
Sulfate	32.7	AO ≤ 500	1.0	mg/L	2023-09-06	
Calculated Parameters						
Hardness, Total (as CaCO3)	196	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	257	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	197	N/A	1.0	mg/L	2023-09-06	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-09-06	
Alkalinity, Bicarbonate (as CaCO3)	197	N/A		mg/L	2023-09-06	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2023-09-06	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2023-09-06	
Conductivity (EC)	479	N/A	2.0	μS/cm	2023-09-06	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2023-09-11	
pH	8.11	7.0-10.5	0.10	pH units	2023-09-06	HT2
Turbidity	0.68	OG < 1	0.10	NTU	2023-09-06	
Total Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-09-09	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-09-09	
Arsenic, total	0.00227	MAC = 0.01	0.00050	mg/L	2023-09-09	
Barium, total	0.100	MAC = 2	0.0050	mg/L	2023-09-09	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-09-09	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2023-09-09	
Calcium, total	47.5	None Required	0.20	mg/L	2023-09-09	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-09-09	
Copper, total	0.00543	MAC = 2	0.00040	mg/L	2023-09-09	
Iron, total	0.135	AO ≤ 0.3	0.010	mg/L	2023-09-09	
Lead, total	0.00022	MAC = 0.005	0.00020	mg/L	2023-09-09	
Magnesium, total	18.8	None Required	0.010	mg/L	2023-09-09	
Manganese, total	0.138	MAC = 0.12	0.00020	mg/L	2023-09-09	
Mercury, total	< 0.000040	MAC = 0.001	0.000040	mg/L	2023-09-09	HG1
Potassium, total	4.75	N/A	0.10	mg/L	2023-09-09	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-09-09	
Sodium, total	23.4	AO ≤ 200	0.10	mg/L	2023-09-09	
Strontium, total	0.540	MAC = 7	0.0010	mg/L	2023-09-09	
Uranium, total	0.00264	MAC = 0.02	0.000020	mg/L	2023-09-09	
Zinc, total	0.0052	AO ≤ 5	0.0040	mg/L	2023-09-09	



REPORTED TO	Osoyoos, Town of	WORK ORDER	2310281
PROJECT	General Potability	REPORTED	2023-09-11 14:01

Analyte	Result	Guideline	RL	Units	Analyzed	Qualif
Well #8 (2310281-04) Matrix: Water Sar	mpled: 2023-09-05	09:40				
Anions						
Chloride	12.4	AO ≤ 250	0.10	mg/L	2023-09-06	
Fluoride	0.38	MAC = 1.5	0.10	mg/L	2023-09-06	
Nitrate (as N)	0.391	MAC = 10	0.010	mg/L	2023-09-06	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-09-06	
Sulfate	33.2	AO ≤ 500	1.0	mg/L	2023-09-06	
Calculated Parameters						
Hardness, Total (as CaCO3)	161	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	238	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	179	N/A	1.0	mg/L	2023-09-06	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-09-06	
Alkalinity, Bicarbonate (as CaCO3)	179	N/A		mg/L	2023-09-06	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2023-09-06	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2023-09-06	
Conductivity (EC)	416	N/A		μS/cm	2023-09-06	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	·	2023-09-11	
pH	8.02	7.0-10.5		pH units	2023-09-06	HT2
Turbidity	0.33	OG < 1		NTU	2023-09-06	
otal Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	ma/L	2023-09-09	
Antimony, total	< 0.00020	MAC = 0.006	0.00020		2023-09-09	
Arsenic, total	0.00212	MAC = 0.01	0.00050		2023-09-09	
Barium, total	0.0477	MAC = 2	0.0050		2023-09-09	
Boron, total	< 0.0500	MAC = 5	0.0500		2023-09-09	
Cadmium, total	0.000031	MAC = 0.007	0.000010		2023-09-09	
Calcium, total	44.1	None Required		mg/L	2023-09-09	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2023-09-09	
Copper, total	0.00635	MAC = 2	0.00040		2023-09-09	
Iron, total	0.013	AO ≤ 0.3	0.010		2023-09-09	
Lead, total	0.00070	MAC = 0.005	0.00020	mg/L	2023-09-09	
Magnesium, total	12.4	None Required	0.010		2023-09-09	
Manganese, total	0.161	MAC = 0.12	0.00020		2023-09-09	
Mercury, total	< 0.000040	MAC = 0.001	0.000040		2023-09-09	HG
Potassium, total	3.75	N/A		mg/L	2023-09-09	
Selenium, total	< 0.00050	MAC = 0.05	0.00050		2023-09-09	
Sodium, total	21.2	AO ≤ 200		mg/L	2023-09-09	
Strontium, total	0.424	MAC = 7	0.0010		2023-09-09	
Uranium, total	0.00289	MAC = 0.02	0.000020		2023-09-09	
Zinc, total	0.0224	AO ≤ 5	0.0040		2023-09-09	



Zinc, total

	soyoos, Town of eneral Potability				WORK ORDER REPORTED	23l0281 2023-09-1	1 14:01
Analyte		Result	Guideline	RL	Units	Analyzed	Qualifier
Well #1 (23l0281-05)	Matrix: Water Sam	pled: 2023-09-05	10:30				
Anions							
Chloride		44.7	AO ≤ 250	0.10	mg/L	2023-09-06	
Fluoride		0.39	MAC = 1.5		mg/L	2023-09-06	
Nitrate (as N)		5.16	MAC = 10	0.010		2023-09-06	
Nitrite (as N)		< 0.010	MAC = 1	0.010		2023-09-06	
Sulfate		71.7	AO ≤ 500		mg/L	2023-09-06	
Calculated Parameters	:						
Hardness, Total (as Ca		291	None Required	0.500	ma/L	N/A	
Solids, Total Dissolved	· · · · · · · · · · · · · · · · · · ·	431	AO ≤ 500		mg/L	N/A	
General Parameters					<u> </u>		
Alkalinity, Total (as Ca	CO3)	237	N/A	1.0	mg/L	2023-09-06	
Alkalinity, Phenolphtha		< 1.0	N/A		mg/L	2023-09-06	
Alkalinity, Bicarbonate	, ,	237	N/A		mg/L	2023-09-06	
Alkalinity, Carbonate (,	< 1.0	N/A	1.0		2023-09-06	
Alkalinity, Hydroxide (a	·	< 1.0	N/A	1.0		2023-09-06	
Conductivity (EC)		747	N/A	2.0		2023-09-06	
Cyanide, Total		< 0.0020	MAC = 0.2	0.0020	•	2023-09-11	
pH		7.94	7.0-10.5	0.10		2023-09-06	HT2
Turbidity		0.12	OG < 1	0.10	NTU	2023-09-06	
Total Metals							
Aluminum, total		< 0.0050	OG < 0.1	0.0050	mg/L	2023-09-09	
Antimony, total		< 0.00020	MAC = 0.006	0.00020	mg/L	2023-09-09	
Arsenic, total		0.00444	MAC = 0.01	0.00050		2023-09-09	
Barium, total		0.0591	MAC = 2	0.0050		2023-09-09	
Boron, total		< 0.0500	MAC = 5	0.0500	mg/L	2023-09-09	
Cadmium, total		0.000033	MAC = 0.007	0.000010	mg/L	2023-09-09	
Calcium, total		86.6	None Required	0.20	mg/L	2023-09-09	
Chromium, total		0.00065	MAC = 0.05	0.00050	mg/L	2023-09-09	
Copper, total		0.00773	MAC = 2	0.00040	mg/L	2023-09-09	
Iron, total		< 0.010	AO ≤ 0.3	0.010	mg/L	2023-09-09	
Lead, total		< 0.00020	MAC = 0.005	0.00020	mg/L	2023-09-09	
Magnesium, total		18.2	None Required	0.010	mg/L	2023-09-09	
Manganese, total		0.00402	MAC = 0.12	0.00020	mg/L	2023-09-09	
Mercury, total		< 0.000040	MAC = 0.001	0.000040	mg/L	2023-09-09	HG1
Potassium, total		6.14	N/A	0.10	mg/L	2023-09-09	
Selenium, total		0.00073	MAC = 0.05	0.00050	mg/L	2023-09-09	
Sodium, total		36.2	AO ≤ 200	0.10	mg/L	2023-09-09	
Strontium, total		0.746	MAC = 7	0.0010	mg/L	2023-09-09	
Uranium, total		0.00704	MAC = 0.02	0.000020	mg/L	2023-09-09	
Zina total	·	0.0070	AO < E	0.0040		2022 00 00	

2023-09-09

AO ≤ 5

0.0040 mg/L

0.0079



REPORTED TO	Osoyoos, Town of	WORK ORDER	2310281
PROJECT	General Potability	REPORTED	2023-09-11 14:01

Analyte	Result	Guideline	RL	Units	Analyzed	Qualif
Well #6 (2310281-06) Matrix: Water Sar	npled: 2023-09-05	10:50				
Anions						
Chloride	17.2	AO ≤ 250	0.10	mg/L	2023-09-06	
Fluoride	0.52	MAC = 1.5	0.10	mg/L	2023-09-06	
Nitrate (as N)	2.30	MAC = 10	0.010	mg/L	2023-09-06	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2023-09-06	
Sulfate	61.1	AO ≤ 500	1.0	mg/L	2023-09-06	
Calculated Parameters						
Hardness, Total (as CaCO3)	290	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	404	AO ≤ 500	1.00	mg/L	N/A	
General Parameters						
Alkalinity, Total (as CaCO3)	292	N/A	1.0	mg/L	2023-09-08	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A		mg/L	2023-09-08	
Alkalinity, Bicarbonate (as CaCO3)	292	N/A		mg/L	2023-09-08	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A		mg/L	2023-09-08	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A		mg/L	2023-09-08	
Conductivity (EC)	669	N/A		μS/cm	2023-09-08	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	·	2023-09-11	
pH	7.98	7.0-10.5		pH units	2023-09-08	HT2
Turbidity	< 0.10	OG < 1		NTU	2023-09-06	
otal Metals						
Aluminum, total	< 0.0050	OG < 0.1	0.0050	mg/L	2023-09-09	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2023-09-09	
Arsenic, total	0.00500	MAC = 0.01	0.00050		2023-09-09	
Barium, total	0.0701	MAC = 2	0.0050		2023-09-09	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2023-09-09	
Cadmium, total	0.000023	MAC = 0.007	0.000010	mg/L	2023-09-09	
Calcium, total	66.7	None Required	0.20	mg/L	2023-09-09	
Chromium, total	0.00070	MAC = 0.05	0.00050	mg/L	2023-09-09	
Copper, total	0.00404	MAC = 2	0.00040	mg/L	2023-09-09	
Iron, total	< 0.010	AO ≤ 0.3	0.010	mg/L	2023-09-09	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2023-09-09	
Magnesium, total	30.0	None Required	0.010	mg/L	2023-09-09	
Manganese, total	0.0944	MAC = 0.12	0.00020	mg/L	2023-09-09	
Mercury, total	< 0.000040	MAC = 0.001	0.000040		2023-09-09	HG
Potassium, total	6.29	N/A		mg/L	2023-09-09	
Selenium, total	0.00055	MAC = 0.05	0.00050		2023-09-09	
Sodium, total	34.1	AO ≤ 200	0.10	mg/L	2023-09-09	
Strontium, total	0.831	MAC = 7	0.0010		2023-09-09	
Uranium, total	0.00631	MAC = 0.02	0.000020		2023-09-09	
Zinc, total	0.0077	AO ≤ 5	0.0040		2023-09-09	



REPORTED TOOsoyoos, Town ofWORK ORDER2310281PROJECTGeneral PotabilityREPORTED2023-09-11 14:01

Sample Qualifiers:

HG1 Sample bottle and preservation submitted is not suitable for Mercury analysis and analyte stability may be affected.

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

recommended.



REPORTED TO Osoyoos, Town of **PROJECT** General Potability

WORK ORDER

2310281

REPORTED 2023-09-11 14:01

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
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
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

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

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



REPORTED TO Osoyoos, Town of **PROJECT** General Potability

WORK ORDER
REPORTED

23I0281 2023-09-11 14:01

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. 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. 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.