

Rockyview Water Co-op

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Lab Number: 92044

PO Number:

Sample Info: Jan Semi Annual
Silver Horn Vale

Sampled By: JA
Date Sampled: 1/26/2022
Date Received: 1/26/2022
Date Reported: 2/11/2022

TEST REPORT

Analyte	Units	Result	CDW Guideline Maximum	Detection Limit
Calcium	mg/L	46.3	No Guideline	0.02
Iron	mg/L	<0.03	AO: 0.3	0.03
Magnesium	mg/L	15.6	No Guideline	0.02
Manganese	mg/L	0.01	AO: 0.02, MAC: 0.12	0.01
Potassium	mg/L	0.5	No Guideline	0.02
Sodium	mg/L	4	AO: 200	0.02
Bicarbonates	mg/L	162	No Guideline	-
Bromides	mg/L	0.4	No Guideline	0.2
Carbonates	mg/L	0	No Guideline	-
Chlorides	mg/L	6.3	AO: 250	0.1
Fluorides	mg/L	0.11	MAC: 1.5	0.02
Nitrates as N	mg/L	0.07	MAC: 10	0.04
Nitrites as N	mg/L	<0.05	MAC: 1	0.05
NO ₃ + NO ₂ as N	mg/L	0.07	No Guideline	0.04
Sulfates	mg/L	46	AO: 500	0.9

Parameter	Units	Result	CDW Guideline Maximum	Detection Limit
Electrical Conductivity (at 25°C)	µS/cm	360	No Guideline	0.2
pH	pH	8.07	7.0 - 10.5	-
Hardness (as CaCO ₃)	mg/L	180	No Guideline	0.1
Total Alkalinity (as CaCO ₃)	mg/L	133	No Guideline	3
P-Alkalinity (as CaCO ₃)	mg/L	0	No Guideline	-
Hydroxide (as CaCO ₃)	mg/L	0	No Guideline	-
Total Dissolved Solids (calculated)	mg/L	199	AO: 500	4
Sulfides as S	mg/L	<0.02	AO: 0.05	0.02
Color	TCU	<5	AO: 15	5
Ammonia Nitrogen	mg/L	<0.9	No Guideline	0.9
Total Organic Carbon	mg/L	1.1	No Guideline	0.5
Bromate	mg/L	<0.0095	MAC: 0.01	0.0095
Chloramines	mg/L	0.1	No Guideline	0.1
Chlorate	mg/L	0.21	MAC: 1	0.10
Chlorite	mg/L	<0.10	MAC: 1	0.10

Sum of Cations	3.77	TDS / EC Ratio	0.55
Sum of Anions	3.81	Sodium Adsorption Ratio	0.12
Ion Balance	0.99	Saturation Index	0.47

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Trace Metals	Units	Result	CDW Guideline Maximum	Detection Limit
Boron	µg/L	3.5	MAC: 5000	0.5
Aluminum	µg/L	92.0	OG: 100	0.2
Chromium	µg/L	0.3	MAC: 50	0.1
Copper	µg/L	1.1	AO: 1000, MAC: 2000	0.08
Zinc	µg/L	<0.2	AO: 5000	0.2
Arsenic	µg/L	0.06	MAC: 10	0.04
Selenium	µg/L	0.3	MAC: 50	0.04
Silver	µg/L	<0.04	No Guideline	0.04
Cadmium	µg/L	<0.05	MAC: 7	0.05
Antimony	µg/L	<0.3	MAC: 6	0.3
Barium	µg/L	37.5	MAC: 2000	0.1
Mercury	µg/L	<0.05	MAC: 1	0.05
Lead	µg/L	<0.1	MAC: 5	0.1
Uranium	µg/L	0.4	MAC: 20	0.04

WSH Labs (1992) Ltd. as per: _____

Legalities**Lab Number:** 92044

- (1) The results above are related only to the items analyzed.
- (2) Results apply to the sample(s) as received.
- (3) Analytical determinations were performed in Calgary, AB. 3851B - 21 Street NE.
- (4) Condition of sample(s) upon receipt:
Acceptable
- (5) External provider(s) of laboratory results:
BV Labs

References

- (1) Accredited by CALA to ISO/IEC 17025 for specific tests.
- (2) Guidelines for Canadian Drinking Water Quality are provided courtesy of Health Canada, September 2020.
https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/summary-table-EN-2020-02-11.pdf

Acronyms & Nomenclatures

< denotes less than detection limit	MAC = Maximum Acceptable Concentration
> denotes greater than	OG = Operational Guidance Value
AO = Aesthetic Objective	TNTC = Too Numerous To Count (>80 colonies)
CDW = Canadian Drinking Water	

Standard Methods for the Examination of Water and Wastewater 23rd Edition (2017)

- Alkalinity.** 2320 B. Titration Method.
Ammonia Nitrogen. 4500-NH₃ C. Titrimetric Method.
Anions. 4110 B. Ion Chromatography with Chemical Suppression of Eluent Conductivity.
Biochemical Oxygen Demand. 5210 B. 5-Day BOD Test.
Color. 2120 B. Visual Comparison Method.
Conductivity. 2510 B. Laboratory Method.
Fluoride. 4500-F⁻ C. Ion-Selective Electrode Method.
Hardness. 2340 B. Hardness by Calculation.
Metals. 3125 B. Inductively Coupled Plasma / Mass Spectrometry (ICP-MS) Method.
Organic Carbon. 5310 B. High-Temperature Combustion Method.
pH. 4500-H⁺ B. Electrometric Method.
Total Kjeldahl Nitrogen / Nitrogen (Organic). 4500-Norg B. Macro-Kjeldahl Method.
Total Suspended Solids. 2540 D. Total Suspended Solids Dried at 103-105°C.
Turbidity. 2130 B. Nephelometric Method.

Hach Methods

- Chemical Oxygen Demand.** Hach Method 8000.
Chlorine, Total & Free. As per Hach CN66 Test Kit Instructions.
Coliforms, Total and E. coli. (Membrane Filtration). Hach Method 10029.
Ortho-Phosphate. Hach Method 8048.
Sulfides. Hach Method 8131.
Tannin & Lignin. Hach Method 8193.
Total Phosphate. Hach Method 8190.