

Springgate Water Coop

#1 Springgate Estate

Phone:

Fax:

Email:

Lab Number: 98624

PO Number: 2025

Sample Info: Pump House - Well

Sampled By:

Date Sampled: 1/15/2025

Date Received: 1/15/2025

Date Reported: 1/17/2025

TEST REPORT

Analyte	Units	Result	CDW Guideline Maximum	Detection Limit
Calcium	mg/L	92.5	No Guideline	0.02
Iron	mg/L	<0.03	AO: 0.3	0.03
Magnesium	mg/L	49.1	No Guideline	0.02
Manganese	mg/L	<0.01	AO: 0.02, MAC: 0.12	0.01
Potassium	mg/L	4.2	No Guideline	0.02
Sodium	mg/L	48	AO: 200	0.02
Bicarbonates	mg/L	451	No Guideline	-
Bromides	mg/L	<0.2	No Guideline	0.2
Carbonates	mg/L	0	No Guideline	-
Chlorides	mg/L	51.8	AO: 250	0.1
Fluorides	mg/L	0.14	MAC: 1.5	0.02
Nitrates as N	mg/L	1.42	MAC: 10	0.04
Nitrites as N	mg/L	<0.05	MAC: 1	0.05
NO ₃ + NO ₂ as N	mg/L	1.42	No Guideline	0.04
Sulfates	mg/L	75	AO: 500	0.9

Parameter	Units	Result	CDW Guideline Maximum	Detection Limit
Electrical Conductivity (at 25°C)	µS/cm	959	No Guideline	0.2
pH	pH	7.70	7.0 - 10.5	-
Hardness (as CaCO ₃)	mg/L	433	No Guideline	0.1
Total Alkalinity (as CaCO ₃)	mg/L	370	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	544	AO: 500	4

Microbiology	Units	Result	CDW Guideline Maximum
Total Coliform	CFU/100 mL	0	MAC: Zero / Absent
Escherichia Coliform	CFU/100 mL	0	MAC: Zero / Absent

WSH Labs (1992) Ltd. as per: _____

Sum of Cations	10.84	TDS / EC Ratio	0.57
Sum of Anions	10.53	Sodium Adsorption Ratio	1.00
Ion Balance	1.03	Saturation Index	0.76

Legalities

Lab Number: 98624

- (1) The results above are related only to the items analyzed.
(2) Results apply to the sample(s) as received. Date and time sampled are solely provided by the client.
(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:
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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, July 2024.
https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/summary-tables-eng-2024-07.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.