

REPORT TO:

Alberta Centre For Toxicology
Alberta Centre For Toxicology
University of Calgary
HM-B19, 3330 Hospital Drive NW
Calgary AB T2N 4N1

PRIVATE COMMUNITY DRINKING WATER FROM:

D Kinniburgh
ACFT
Calgary AB
dkinnibu@ucalgary.ca

REQN: T267179

SOURCE: Unknown
COLL. BY: D Kinniburgh
NOTES: Routine. #1.

SITE: Kitchen Faucet

ROUTINE CHEMICAL ANALYSIS	Units	Result	Guideline	Comment	LOQ	Method
Bicarbonate	mg/L	132			NA	Titration
Calcium	mg/L	35.7			0.10	ICP/MS
Carbonate	mg/L	2.7			NA	Titration
Chloride	mg/L	10.2	≤ 250 AO		1.00	IC
Fluoride	mg/L	0.18	1.5 MAC		0.1	IC
Hydroxide	mg/L	0			NA	Titration
Iron	mg/L	0.02	≤ 0.3 AO		0.01	ICP/MS
Magnesium	mg/L	10.4			0.10	ICP/MS
Nitrate (N)	mg/L	ND	10 MAC		0.23	IC
Nitrite (N)	mg/L	ND	1 MAC		0.03	IC
Potassium	mg/L	2.6			0.10	ICP/MS
Sodium	mg/L	15.6	≤ 200 AO		1.00	ICP/MS
Sulfate	mg/L	31.0	≤ 500 AO		1.00	IC
Total Alkalinity (CaCO ₃)	mg/L	113			NA	Titration
Total Dissolved Solids (Calc)	mg/L	174	≤ 500 AO		NA	Calculated
Total Hardness (CaCO ₃) (Calc)	mg/L	132			NA	Calculated
pH		8.4	7.0 - 10.5		NA	pH Meter
Conductivity	µS/cm	316			NA	Conductivity
Anion Sum	mEq/L	3.2			NA	Calculated
Cation Sum	mEq/L	3.4			NA	Calculated
Ion Balance (Cation/Anion)	%	105			NA	Calculated
Ion Balance (% Difference)	%	2.6			NA	Calculated

Results reported relate only to the sample as received and tested by the laboratory. Values less than LOQ are reported as ND.

Test results are from CALA accredited methods.

pH holding time (15 min) was not met.

Nitrite/Nitrate holding time (72 hours) and/or storage conditions (≤ 6°C) were not met. If recollection is required, Public Health Inspector should contact ACFT for instructions.

Collected: Oct 14, 2022 10:00 AM
Received: Oct 17, 2022
Batch: B005125
Certified: Oct 24, 2022 03:07:56 PM
Reissued: Dec 19, 2022 01:10:51 PM

LOQ = Limit of Quantitation
NA = Not Applicable
ND = Not Detected
AO = Aesthetic Objective
MAC = Maximum Acceptable Concentration
Guideline = Canadian Drinking Water

Certified By: Elham Zeini Jahromi
For: David W. Kinniburgh, PhD, FCACB
Director, Alberta Centre For Toxicology

Elham Zeini Jahromi

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TOTAL TRACE METALS ANALYSIS	Units	Result	Guideline	Comment	LOQ	Method
Aluminum	mg/L	0.019	2.9 MAC		0.005	ICP/MS
Antimony	mg/L	ND	0.006 MAC		0.001	ICP/MS
Arsenic	mg/L	ND	0.010 MAC		0.001	ICP/MS
Barium	mg/L	0.022	2.0 MAC		0.001	ICP/MS
Beryllium	mg/L	ND			0.001	ICP/MS
Boron	mg/L	ND	5 MAC		0.05	ICP/MS
Cadmium	mg/L	ND	0.007 MAC		0.001	ICP/MS
Chromium	mg/L	ND	0.05 MAC		0.001	ICP/MS
Cobalt	mg/L	ND			0.001	ICP/MS
Copper	mg/L	0.250	2 MAC, 1 AO		0.001	ICP/MS
Lead	mg/L	0.0001	0.005 MAC		0.0001	ICP/MS
Manganese	mg/L	0.001	0.12 MAC, ≤ 0.02 AO		0.001	ICP/MS
Mercury	mg/L	ND	0.001 MAC		0.00005	ICP/MS
Molybdenum	mg/L	0.004			0.001	ICP/MS
Nickel	mg/L	ND			0.001	ICP/MS
Selenium	mg/L	ND	0.05 MAC		0.001	ICP/MS
Silver	mg/L	ND			0.001	ICP/MS
Strontium	mg/L	0.281	7.0 MAC		0.001	ICP/MS
Thallium	mg/L	ND			0.001	ICP/MS
Titanium	mg/L	0.001			0.001	ICP/MS
Uranium	mg/L	0.002	0.02 MAC		0.001	ICP/MS
Vanadium	mg/L	ND			0.001	ICP/MS
Zinc	mg/L	0.002	≤ 5.0 AO		0.001	ICP/MS

Results reported relate only to the sample as received and tested by the laboratory. Values less than LOQ are reported as ND.

Test results are from CALA accredited methods, except for mercury screening.

Mercury result is for screening only. Public Health Inspector should contact ACFT if confirmation is required.

Preservation: Sample was acidified within 7 days of collection time.

Collected: Oct 14, 2022 10:00 AM
Received: Oct 17, 2022
Batch: B005126
Certified: Oct 24, 2022 04:02:46 PM
Reissued: Dec 19, 2022 01:10:51 PM

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Certified By: Elham Zeini Jahromi
For: David W. Kinniburgh, PhD, FCACB
 Director, Alberta Centre For Toxicology

