

Drinking Water Results Interpretation – Charles Tetcho School, Samba K'e (29 Apr 2026)

This document is developed to provide interpretation information for the Charles Tetcho School drinking water results.

Types of samples collected:

- **Tier 1 Sample:** Collected after 8 hours of stagnation (overnight).
 - What this shows: These results represent lead that may leach into the water from plumbing when water sits unused overnight.
- **Post Flush Sample:** Collected after flushing the fixture for 5 minutes, without any stagnation.
 - What this shows: These results represent any nearby or fixture-specific lead source that may leach into the water. These samples help identify the location of the issue in the plumbing system.
- **Tier 2 Sample:** Collected after flushing the tap for 5 minutes, followed by 30 minutes of stagnation.
 - What this shows: These results reflect typical water use during the day and represent lead exposure under regular conditions. This may vary in high usage areas.
 - Note: Tier 2.1 and Tier 2.2 samples were two 300 millilitre samples collected back-to-back and analyzed separately to support locating the source of lead. E.g., fixture vs pipes or joints.
 - CPHO consideration focuses on these results to assess human health risk.

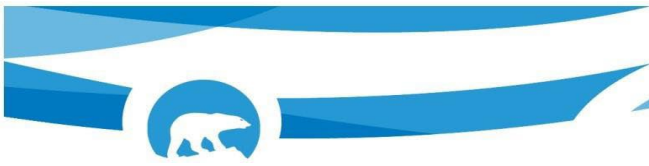
Type of fixtures tested:

All drinking water fountains and classroom sinks are tested. A few additional samples were collected for other baseline analysis.

Who analyzed the results:

Water samples were tested by Taiga Environmental Laboratory.

The Office of the Chief Public Health Officer reviewed and interpreted the results for public health significance.



Summary of lead testing results:

- At the Charles Tetcho School, **0 of the 8 fixtures** tested above Health Canada Guidelines for Lead and 0 of the 9 fixtures for Copper.
- Health Canada's maximum acceptable concentration (MAC) for lead is 5 µg/L and for Copper is 2000 µg/L. Previously, in 2019, the MAC value for Lead was 10 µg/L.
- The World Health Organization has established a guideline value of 10 micrograms per litre (µg/L) for lead in drinking water.

Detailed results for Lead sampling:

Room Number (Dwg)	Room Number (Onsite)	Tier 1 (µg/L)	Post-Flush (µg/L)	Tier 2.1 (µg/L)	Tier 2.2 (µg/L)	Public Health Order Status
886 - 106 - SK	Kitchen	0.3	0.2	0.2	0.2	No Action
886 - 119 - SK	Classroom Sink	0.5	0.2	0.3	0.4	No Action
886 - 122A - DF	Drinking Fountain	0.2	0.2	0.2	0.2	No Action
886 - 122B - DF	Drinking Fountain	0.1	0.2	0.2	0.2	No Action
886 - 126A - SK	Classroom Sink	0.6	0.3	0.3	0.3	No Action
886 - 126B - SK	Classroom Sink	0.5	0.3	0.3	0.4	No Action
886 - 123 - SK	Classroom Sink	0.7	0.2	0.5	0.5	No Action
886 - 001 - DF	Drinking Fountain	0.4	0.4	0.3	0.7	No Action

All other drinking water fountains and fixtures showed results well below Canadian guidelines.