



Drinking Water Results Interpretation – Echo Dene School (9 April 2026)

This document is developed to provide interpretation information for the Echo Dene 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 (Flush Baseline):** 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 Echo Dene School, **12 of the 18 fixtures** tested above Health Canada Guidelines for Lead and **2 out of 18 fixtures** for Copper.
- Health Canada's maximum acceptable concentration (MAC) for lead is 5 µg/L and Copper is 2000 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:

Sample Type		First Draw	Flush Baseline	Tier 2.1	Tier 2.2	
Room Number (Dwg)	Room Number (Onsite)					Public Health Order Status
884 - 128A - SK	Science	7.5	1.5	2.5	1.3	Flush Required
884 - 119 - SK	Medic Room	75.5	3.1	26.5	10.2	Do Not Consume
884 - 133 - SK	Gym Storage	30.4	14.0	7.6	2.4	Do Not Consume
884 - 132 - SK	Class 9 - Kindergarden	14.9	0.5	1.6	2.3	Flush Required
884 - 121 - SK	Staff Lounge	99.9	82.4	1.2	1.1	Do Not Consume
884 - 131 - SK	Art room	6.4	9.4	2.3	1.2	Do Not Consume
884 - 129 - SK	Classroom 3	11.2	12.4	7.3	6.5	Do Not Consume
884 - 194C - SK	Woodshop	17.3	4.4	8.8	3.3	Do Not Consume
884 - 194E - SK	Woodshop	44.8	0.9	9.2	7.2	Do Not Consume
884 - 194F - SK	Woodshop	47.1	8.4	14.6	6.5	Do Not Consume
884 - 199 - SK	Classroom 6	5.7	1.4	3.0	4.5	Flush Required
884 - 200 - SK	Classroom 5	6.8	1.4	2.5	1.9	Flush Required

Detailed results For Copper:

Sample Type		First Draw	Flush Baseline	Tier 2.1	Tier 2.2	
Room Number (Dwg)	Room Number (Onsite)					Public Health Order Status
884 - 121 - SK	Staff Lounge	2170	588	297	536	Do Not Consume
884 - 194F - SK	Woodshop	2190	605	834	800	Do Not Consume

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