



Sampling Results – N.J Macpherson School

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.
- **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 with high usage areas.
 - *Note Tier 2.1 and Tier 2.2 samples were collected and analyzed separately to locate the source of lead. E.g., fixture vs pipes or joints. They are both closely proximate to real-life use.
 - CPHO consideration focuses on these results to assess human health risk.

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 N.J. Macpherson School, 5 of the 22 sites tested above Health Canada Guidelines.

Results for one additional site are still pending, and in the interest of protecting public health, the site is being treated as an impacted location.

Health Canada's maximum acceptable concentration (MAC) for lead is 5 µg/L. Previously, in 2019, the MAC value 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.

Client Sample ID	Tier 1 (µg/L)	Tier 2.1 (µg/L)*	Tier 2.2 (µg/L)*
Drinking Fountain/Bottle Fill in Annex	0.5	0.5	0.4
Sink in Classroom 114	8.3	5.0	2.8
Sink in Classroom 115	5.0	2.4	1.4



Sink in Classroom 116	7.0	3.4	2.6
Drinking Fountain/Bottle Fill by the gym	0.6	0.2	0.2
Sink in Classroom 118	3.5	2.9	1.6
Sink in Classroom 117	1.2	0.3	0.8
Drinking Fountain in Annex	3.9	4.0	3.3
Sink in Office	11.6	9.8	18.7
Sink #1 in Classroom 106	8.8	3.2	1.7
Sink #2 in Classroom 106	13.3	2.6	1.1
Sink in Classroom 105	13.6	9.5	3.0
Sink in Classroom 104	9.5	2.1	1.0
Sink in Classroom 103	6.3	10.5	3.9
Sink in Classroom 102	2.8	1.5	1.0
Sink in Classroom 101	10.1	5.5	8.0
Sink in Classroom 113	1.0	1.1	0.7
Sink in Classroom 112	4.2	2.8	1.2
Sink in Classroom 111	29.2	2.3	2.7
Sink in Classroom 110	5.4	2.0	0.6
Sink in Classroom 109	13.3	6.3	2.2
Sink in Classroom 108	6.2	1.5	0.7
Sink in Classroom 132	Pending	Pending	Pending