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October 26, 2026

School District 70
4690 Roger Street
Port Alberni, BC V9Y 3Z4

Attention: Alex Taylor

Reference: Potable Water Lead Testing – Maebelle Maintenance Yard – 4930 Maebelle Road, Port Alberni, BC

Introduction

Island EHS Ltd has collected six (6) water samples from taps at **Maebelle Maintenance Yard**, located at 4930 Maebelle Road, Port Alberni, BC. The purpose of the sampling is to evaluate potential lead exposure risk from water consumed from the taps. The samples were collected on October 9, 2026, and we report the following.

Sampling Methodology

Sampling locations were selected by the client. All samples were taken from cold water lines.

The lead samples were collected using the methodology taken from "Guidelines on Evaluating and Mitigating lead in Drinking Water Supplies, Schools, Daycares & Other Buildings" (published April 2019 by the British Columbia Health Protection Branch), using the Random Daytime Sampling method. A 125mL First Draw sample was followed by a 125mL sample taken after a 30-second flush. This methodology was conducted to determine if a 30-second flush is sufficient to reduce the lead concentrations to below the Maximum Acceptable Concentration (MAC).

The samples were collected in an appropriate bottle supplied by an accredited laboratory. The samples were chilled and immediately submitted to the testing laboratory and tested for lead.

Samples were analyzed by the Island EHS in-house laboratory, using procedures based on methods recommended by the American Public Health Association (APHA) and the US Environmental Protection Agency (US-EPA) (EPA 200.9). Our laboratory is accredited by CALA to ISO/IEC 17025:2017 standards. Results were compared to the latest edition of the Canadian Drinking Water Quality Guidelines (CDWQG) published by Health Canada's Water Quality and Health Bureau.

Results

Table 1: Lead concentration from tested locations for First Draw and Flushed Sampling, compared to the Maximum Allowable Concentration (MAC) for Lead (0.005 mg/L).

Sample Location	MAC[1] (mg/L)	Random Daytime Sample (mg/L)	Comments
01-S **01-F**	0.005	**0.0006** **0.0005**	**Lunchroom Fountain**
02-S **02-F**	0.005	**0.0002** **<0.0002**	**Lunchroom Sink**
03-S **03-F**	0.005	**0.0018** **0.0013**	**Reception Sink**

1. MAC = Maximum acceptable concentrations
2. S = Stagnant first draw sample
3. F = Flushed sample
4. < = Less than the limit of detection (LOD)

Full analytical results can be found in Appendix A

Discussion

The building is supplied by the municipal potable water distribution system. According to the BC Health Protection Branch, “Lead is usually not found in drinking water when it leaves the treatment plant. Instead lead tends to leach out of pipes and fixtures in buildings…” Until 1989, the BC Building Code did not have provisions for restricting the use of lead-containing materials in potable water lines. Under the Canadian Standards Association (CSA) B125.1 standard, plumbing, fitting and fixtures produced as recently as 2012 that were considered “lead-free” could contain as much as 8% lead by weight. Since 2012, the maximum percent of lead in fixtures that are considered “lead-free” is 0.25%.

Conclusions and Recommendations

Of the three (3) locations from which water samples were collected by Island EHS on October 9, 2026 within the Maebelle Maintenance Yard, located at 4930 Maebelle Road, Port Alberni, BC, none of the samples were found to have an average lead concentration which exceeded the maximum acceptable concentration (MAC).

Based on these results, it is recommended that annual testing for lead continue to be conducted at this location as part of the School District’s drinking water testing program.

Limitations

This report has been prepared in accordance with established Industrial Hygiene practices. It is intended for the exclusive use of School District 70 to assist in the assessment of the drinking water quality in the sampled locations. The use of this document for any other purposes is at the sole risk of the users.

Island Environmental Health & Safety Ltd.





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Field Work and Report

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Report Review

Appendix A:
Analytical Results

Island Environmental Health and Safety
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Certificate of Analysis

Client Name	School District 70	Report #	78263
Site Address	Maebelle Maintenance Yard	Report Date	2026-10-22
Collection Date	2026-10-09	Analysis Date	2026-10-21
Received by Lab	2026-10-13	PO	
Collected By	MBdlG	Notes	

Analysis Summary: Lead - Stagnant/Flush

Sample #	1	Result (mg/L)	0.0006	Stagnant
Location	Lunchroom Fountain	Result (mg/L)	0.0005	Flush
Sampling Time	6:15 AM	Comments		
Sample #	2	Result (mg/L)	0.0002	Stagnant
Location	Lunchroom Sink	Result (mg/L)	<0.0002	Flush
Sampling Time	6:14 AM	Comments		
Sample #	3	Result (mg/L)	0.0018	Stagnant
Location	Reception Sink	Result (mg/L)	0.0013	Flush
Sampling Time	6:11 AM	Comments		

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Notes

Results are compared to the latest Canadian Drinking Water Quality Guideline (CDWQG), published by Health Canada

Results in green are at or below the CDWQG limit of 0.005 mg/L
Results in red are above the CDWQG limit of 0.005 mg/L

Analysed using EPA 200.9

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Quality Control Report

	Result	Unit	Limits	Pass/Fail?
Duplicate	7	Rel. % Diff	0 - 15 %	**PASS**
LFM	103	% Recovery	85-115%	**PASS**
LRB	<0.0002	mg/L	<0.0044 mg/L	**PASS**
LFB	114	% Recovery	85-115%	**PASS**

Duplicate: Paired analysis of two portions of the same sample. Used to evaluate the variance in the measurement and homogenity of the sample.
Laboratory Fortified Matrix (LFM): A client sample that has been fortified with a known amount of analyte. Used to evaluate matrix effects.
Laboratory Reagent Blank (LRB): A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Laboratory Fortified Blank (LFB): A blank matrix to which a known amount of analyte is added. Used to verify instrument calibration.

Results relate only to the items tested

This report is issued by Island EHS, accredited by CALA to ISO/IEC 17025:2017 standards for the scope of testing.

CALA
Testing
Accreditation No. 1005043

Laura Martin
Laboratory Analyst

Sandy Munoz de la Nava, CRSP
Occupational Hygiene Technologist
Report Review

End of Report