

December 21, 2022



Eric Hamilton
Director of Buildings & Grounds
Edina Public Schools
5701 Normandale Road
Edina, MN 55424

**RE: Edina Public Schools
Lead-in-Water First Draw – Initial Testing
IEA Project #202211196**

Dear Mr. Hamilton:

At the request of Edina Public Schools, IEA collected fifty-two (52) water samples from identified potable water sources on November 23, 2022, for lead analyses from the following two buildings:

- Cornelia Elementary School (49 samples)
- Transportation Center (3 samples)

The purpose of the sampling is to document lead content in the sampled locations.

INTRODUCTION

Minnesota Statute 121A.335 requires public school buildings serving pre-kindergarten through grade 12 to test for lead in potable water fixtures every five years. The *3Ts for Reducing Lead in Drinking Water Toolkit (2018)* and the Lead Contamination Control Act (LCCA) of 1988 were created by the Environmental Protection Agency (EPA) to identify and reduce lead in drinking water. Lead is a metal that usually enters drinking water through the distribution system, including pipes, solders, faucets, and valves. Lead content in water may increase when the water is allowed to sit undisturbed in the system. Exposure to lead is a health concern.

The EPA recommends taking action when elevated lead levels are noted in water fixtures. The MDH and MDE recommend taking a fixture out of service if levels are 20 parts per billion (ppb) or higher. The MDH and MDE also recommend taking action according to their guidelines for fixtures with levels of 2 parts per billion (ppb) or higher.

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METHODOLOGY

IEA collected 52 first-draw (unless otherwise noted) samples of approximately 250 milliliters (ml) of water. “First draw” means the samples are collected before the fixture is used or flushed during the day. The first-draw sample results reflect a worst-case scenario, i.e., the highest lead level that would be consumed by building occupants. MDH recommends fixtures not be used 6 to 18 hours prior to sampling fixtures.

Water samples were analyzed by Minnesota Valley Testing Laboratories (MVTL) in New Ulm, Minnesota, which uses EPA-approved analytical methods and quality control/assurance procedures. Samples were analyzed using the MVTL Method: ICP/MS EPA Method 200.8.

RESULTS & DISCUSSION

The lead-in-water sampling results ranged from below the level of detection (<0.5 ppb) to 35.1 ppb. There is one (1) sample result greater than the district designated level of 20 ppb. See *Table 1: Water Testing Results Exceeding 20 ppb*. The laboratory reports are provided in Appendix A. Laboratory results are reported in micrograms per liter (µg/L) which is equivalent to ppb.

Table 1: Water Testing Results Exceeding 20 ppb – November 23, 2022

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)	Remediation
11232022CES-85	Cornelia Elementary	Room 26 South	Sink	35.1	Taken out of Service

ppb – parts per billion

RECOMMENDATIONS

One fixture from the November 23, 2022, sampling showed lead level(s) above 20 ppb. This fixture was taken out of service, and the District plans to remove the fixture. No further action is required at this time.

It is recommended that a copy of the district's Lead in Water Testing Report be made available to staff and the public through the district's administrative offices. Per Minnesota Statutes, section 121A.335, a school district that has tested its buildings for the presence of lead shall make the results of the testing available to the public for review and must notify parents of the availability of the information.

GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon data obtained from Edina Public Schools at the indicated locations. This report does not reflect variations in conditions that may occur across the site, property, or facility. Actual conditions may vary and may not become evident without further assessment.

The report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted environmental, health and

safety practices. Other than as provided in the preceding sentence and in our Proposal #10874 dated October 27, 2022, regarding lead-in-water sampling at Cornelia Elementary School and the Transportation Center, including the General Conditions attached thereto, no warranties are extended or made.

Please contact IEA if you would like assistance with any of the above recommendations or have questions regarding this report.

Sincerely,

IEA, Inc.

Reviewed by:



Kennedy Peterson
Project Manager



Mary Ferrian, CSP
Division Manager

KP/khb 12212022

Enc.

Appendix A

*Laboratory Testing Report, Chain of Custody, and
Building Maps*