

June 29, 2016

Chris Paquette
Mounds View Public Schools
1425 Paul Kirkwold Drive
Arden Hills, MN 55112



**RE: Area Learning Center at Silver View Plaza
Lead-in-Water Testing
IEA Project #201510829**

Dear Mr. Paquette:

At the request of Mounds View Public Schools, IEA collected samples of drinking water from the Area Learning Center at Silver View Plaza for lead analysis on April 15, 2016.

The purpose of the site sampling was to document lead levels in the sampled locations and compare them to the EPA action level of 20 parts per billion (ppb).

INTRODUCTION

The Lead Contamination Control Act (LCCA) of 1988 was created by the Environmental Protection Agency (EPA) to identify and reduce lead in drinking water. Both the EPA and the Minnesota Department of Health (MDH) recommend testing of potable water sources (water used for consumption) every five years for the presence of lead. Lead is a metal that usually enters drinking water through the distribution system, including pipes, solders, faucets, and valves. Lead levels in water may increase when the water is allowed to sit undisturbed in the system, such as in science, biology, or art areas. Exposure to lead is a significant health concern, especially to infants and young children whose growing bodies absorb lead more readily than adult bodies do. Lead exposure can cause delays in physical and/or mental development in children and damage to the brain, kidneys, nervous system, and red blood cells. The EPA and MDH recommend that action be taken at a specific fixture when the lead concentration exceeds the EPA's action level for schools of 20 parts per billion (ppb).

METHODOLOGY

IEA collected ten (10) first-draw samples of approximately 500 milliliters (ml). "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.

A site map with sample locations is included in Appendix A. 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 ICP/MS EPA Method 200.8.

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, INC.
www.ieasafety.com

BROOKLYN PARK
9201 West Broadway, #600
Brooklyn Park, MN 55445
763-315-7900 / FAX 763-315-7920
800-233-9513

MANKATO
610 North Riverfront Drive
Mankato, MN 56001
507-345-8818 / FAX 507-345-5301
800-233-9513

ROCHESTER
210 Woodlake Drive SE
Rochester, MN 55904
507-281-6664 / FAX 507-281-6695
800-233-9513

BRAINERD
13432 Elmwood Drive, Ste. #5
Baxter, MN 56425
218-454-0703 / FAX 218-454-0703
800-233-9513

MARSHALL
1420 East College Drive
Marshall, MN 56258
507-476-3599 / FAX 507-537-6985
800-233-9513

RESULTS & DISCUSSION

Analysis of the water samples showed lead concentrations ranged from < 0.5 ppb to 1.41 ppb. Thus, lead levels were below the EPA Action Level. The laboratory report and chain of custody are provided in Appendix B. Laboratory results are reported in micrograms per liter ($\mu\text{g/L}$) which is equivalent to parts per billion (ppb).

RECOMMENDATIONS

IEA recommends that a copy of the district's Lead-in-Drinking Water Testing Report be made available to the public through the district's administrative offices.

GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon data obtained from Mounds View 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 #4566 dated July 29, 2015 regarding lead-in-water testing throughout the district including the General Conditions attached thereto, no warranties are extended or made.

If you have any questions or would like further assistance in implementing any of the above recommendations, please do not hesitate to contact me at 763-315-7900.

Sincerely,

IEA, Inc.



Brenda Fischer
Senior Project Manager
EH&S Division



Leslie Cloonan, MPH, CIH, LEED AP O+M
Senior Project Manager
Indoor Environments Division

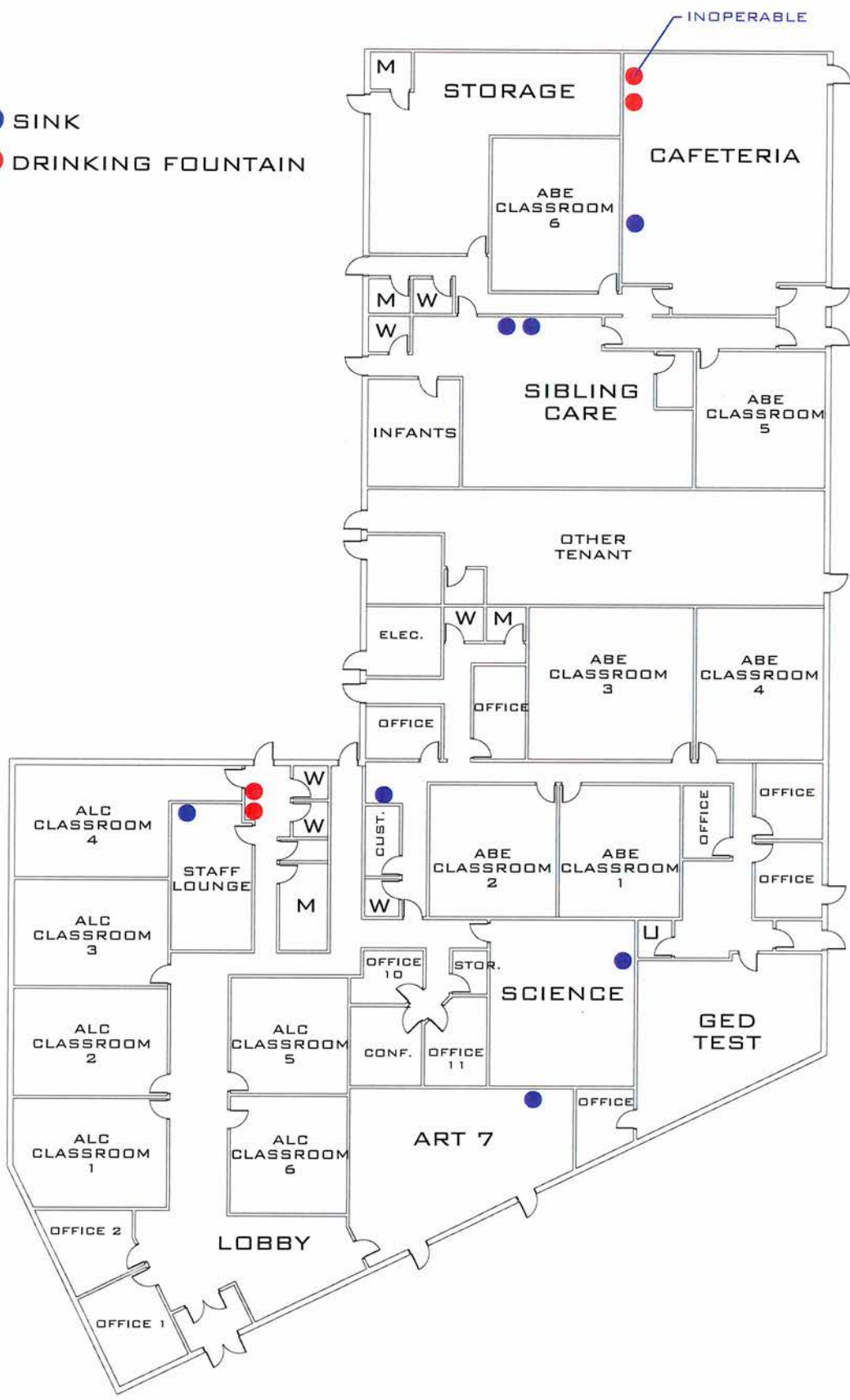
BF-tc 06/21/16

Enc.

Appendix A

Site Map

- SINK
- DRINKING FOUNTAIN



Appendix B

Laboratory Testing Report Chain of Custody (COC)



MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 North Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
 2 North German St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
 2616 East Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
 1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
 www.mvtl.com



Report Date: 3 May 2016

HEIDI SOLBERG
 IEA/BROOKLYN PARK
 9201 W BDWY STE #600
 BROOKLYN PARK MN 55445

MAY -6 2016

Work Order #: 12-6637
 Account #: 002190

Date Received: 15 Apr 2016
 Date Sampled: 15 Apr 2016
 Temperature at Receipt: 18.2 C

PROJECT NAME: AREA LEARNING CENTER AT SILVER VIEW
 PROJECT NUMBER: 201510829

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A14001	041516SVP-1 ART ROOM 7-SNK	0.87 ug/L	15.0	30 Apr 16	RMB
16-A14002	041516SVP-2 STAFF LOUNGE-SNK	0.58 ug/L	15.0	27 Apr 16	RMB
16-A14003	041516SVP-3 STAFF LOUNGE-DF	0.55 ug/L	15.0	27 Apr 16	RMB
16-A14004	041516SVP-4 HALL OUTSIDE STAFF LOUNGE-DF	0.57 ug/L	15.0	27 Apr 16	RMB
16-A14005	041516SVP-5 SCIENCE ROOM 8-SNK	1.31 ug/L	15.0	27 Apr 16	RMB
16-A14006	041516SVP-6 CAFETERIA-SNK	1.23 ug/L	15.0	27 Apr 16	RMB
16-A14007	041516SVP-7 CAFETERIA-DF	0.63 ug/L	15.0	27 Apr 16	RMB
16-A14008	041516SVP-8 SIBLING CARE-SNK (LEFT)	1.16 ug/L	15.0	27 Apr 16	RMB
16-A14009	041516SVP-9 SIBLING CARE-SNK (RIGHT)	1.41 ug/L	15.0	27 Apr 16	RMB
16-A14010	041516SVP-10 HALL NEAR COPIERS/CUST. CLOSET-SNK	0.90 ug/L	15.0	30 Apr 16	RMB

Approved by: 
 Dan O'Connell, Chemistry Laboratory Manager New Ulm, MN

Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards.

The reporting limit was elevated for any analyte requiring a dilution as coded below:
 @ = Due to sample matrix # = Due to concentration of other analytes
 ! = Due to sample quantity + = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

