January 22, 2018

Providing Trusted Health & Safety Solutions

Mrs. Robyn Vosberg-Torgerson
Milaca Public Schools
500 Highway 23 West
Milaca, MN 56353

RE: Milaca Lead-in-Water First Draw – Initial Testing
IEA Project #201711090

Dear Mrs. Vosberg-Torgerson:

At the request of Milaca Public Schools, IEA collected a total of 142 samples of drinking water on December 22, 2017 for lead analyses from the following buildings:

- Milaca High School
- Milaca Elementary School

The purpose of the sampling was to document lead levels in the sampled locations and to 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. Minnesota Statute 121A.335 requires public school buildings serving kindergarten through grade 12 to test for lead in water every 5 years. 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. 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 142 first-draw (unless otherwise notes) samples of approximately 250 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. Current protocol calls for flushing locations 8-18 hours prior to sampling.

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.

RESULTS & DISCUSSION

The lead-in-water sample results ranged from below the level of detection (<0.5 ppb) ppb to 54.0 ppb. There was one (1) sample result that exceeded the EPA action level of 20 ppb. The result greater than 20 ppb is displayed in *Table 1: Water Testing Result Exceeding 20 ppb*. The laboratory report is provided in Appendix B. Laboratory results are reported in micrograms per liter (µg/L) which is equivalent to parts per billion (ppb).

Table 1: Water Testing Result Exceeding 20 ppb – December 22, 2017

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
18-A59	Milaca High School	Room S229 Sink	Faucet	54.0

ppb – parts per billion

There were no results with lead levels between 15 ppb and 20 ppb. For this range, although the EPA recommends that school drinking water not exceed 20 ppb, the MDH recommends schools seek to reduce the amount of lead in drinking water to as close to zero as possible. The next highest result was 2.89 ppb from the pool drinking fountain.

RECOMMENDATIONS

IEA recommends implementing one of the following treatment options for the fixture with lead level exceeding the EPA action level of 20 ppb. These recommendations would also be considered for fixtures with lead levels approaching 20 ppb.

- Install a drinking water treatment unit certified to NSF/ANSI 53 for lead reduction: *http://info.nsf.org/Certified/DWTU/Listings.asp?TradeName=&Standard=053&ProductType=&PlantState=&PlantCountry=&PlantRegion=&submit3=Search&hdModlStd=ModlStd.*
- Conduct flush testing in accordance with EPA or MDH guidelines to determine if flushing will reduce lead levels. If results indicate that flushing will reduce lead to acceptable levels, implement a flushing program which includes documentation of daily flushing and periodic program review.
- Replace fixture with a "lead-free" fixture certified to NSF/ANSI 372 or NSF/ANSI 61-G. The *Reduction of Lead in Drinking Water Act* redefines "lead-free" as "not more than a weighted average of 0.25% lead when used with respect to wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures." Effective January 4, 2014, drinking water system components sold or installed must adhere to this new requirement.
- Remove fixture from service by disconnecting it from the water supply.
- Post signs that the water is not potable and to notify staff of this.

In addition, IEA recommends that a copy of the district's Lead-in-Drinking 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 water testing at Milaca Public Schools. This report does not reflect variations in conditions that may occur. 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 #6503 dated October 16, 2017 regarding EHS service at the Milaca Public School buildings 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.

Sara Dominicak
EHS Account Manager

Reviewed by,

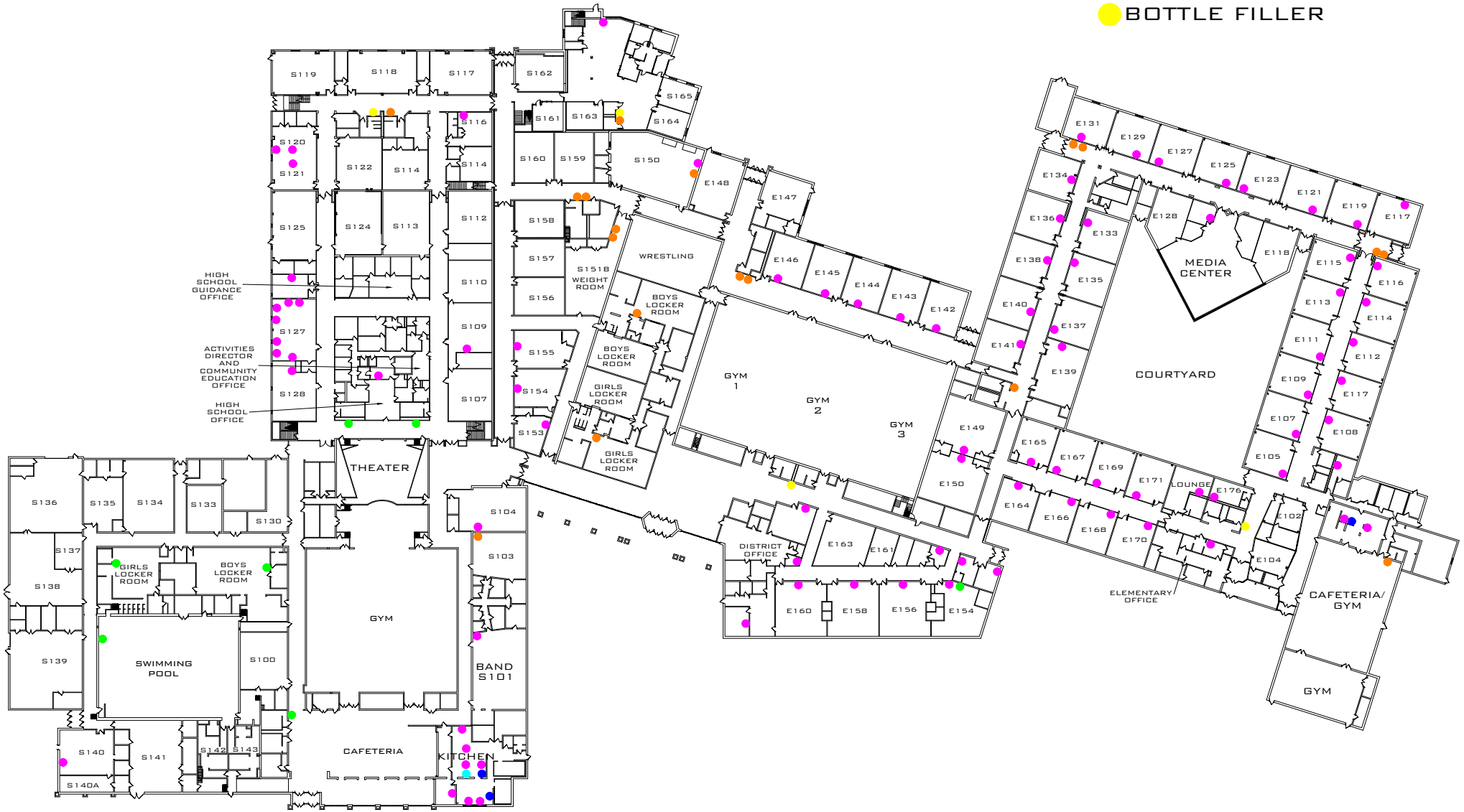
Karen Weiblen
EHS/IEQ Consultant

SD/ep 012218

Enc.

Appendix A

Site Map/Drawing

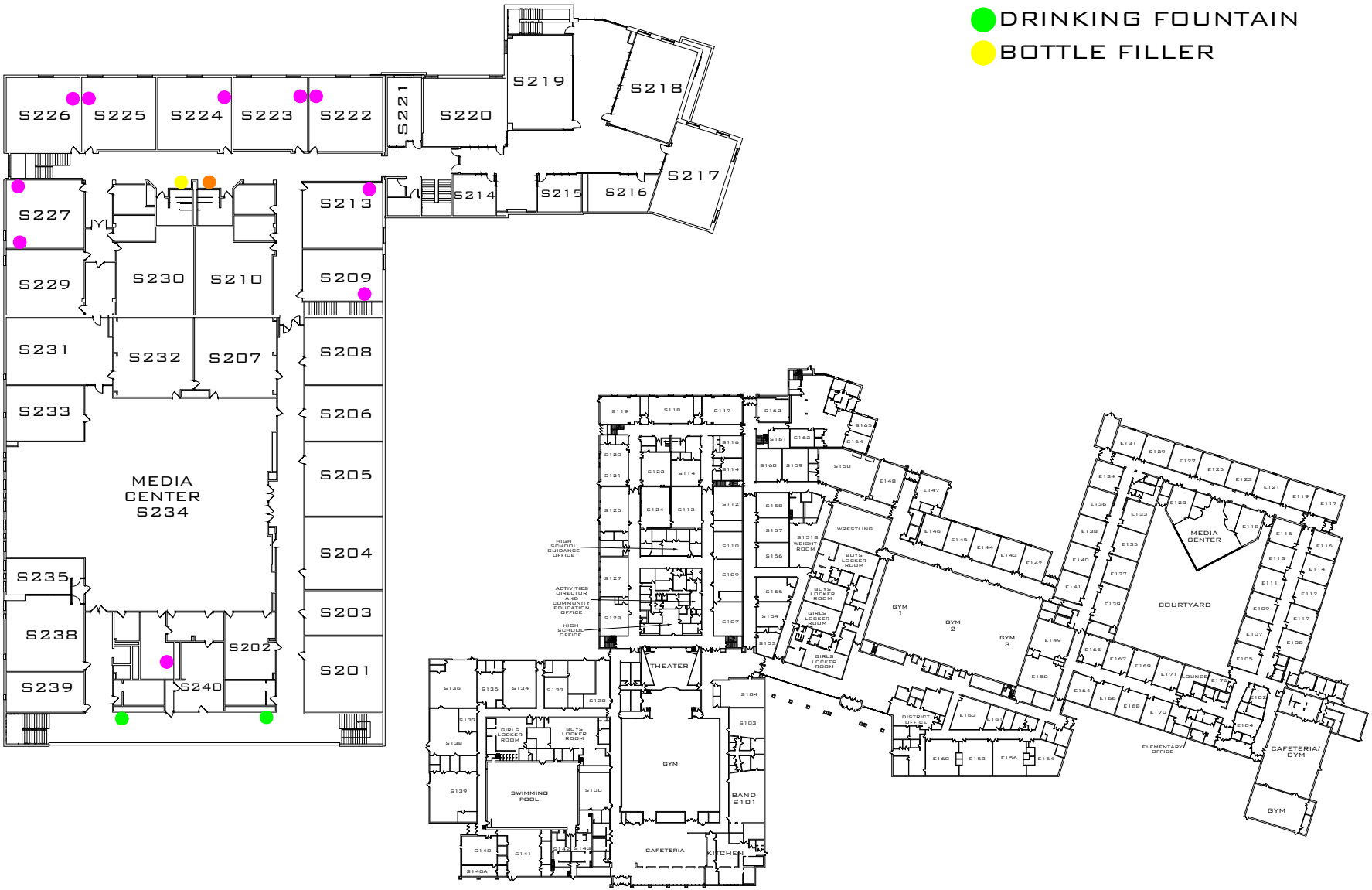


INSTITUTE FOR ENVIRONMENTAL ASSESSMENT
9201 West Broadway Brooklyn Park, MN 55445
Tel: 763.315.7900 Toll Free: 800.233.9513
Fax: 763.315.7920

MILACA PUBLIC SCHOOLS

FIRST LEVEL FLOOR PLAN | SEPT. 2017

SINK
WATER COOLER
DRINKING FOUNTAIN
BOTTLE FILLER



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MILACA PUBLIC SCHOOLS

SECOND LEVEL FLOOR PLAN | OCT. 2017

N

Appendix B

Laboratory Testing Report

MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

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

MEMBER ACIL

Report Date: 11 Jan 2018

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

Work Order #: 12-3003
Account #: 002190
Purchase Order #: 201711090

Date Received: 29 Dec 2017
Date Sampled: 22 Dec 2017
Temperature at Receipt: 10.4C

PROJECT NAME: MILACA PUBLIC SCHOOLS
PROJECT NUMBER: 201711090

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A9	12222017MPS-1 S104 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A10	12222017MPS-2 S103 WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A11	12222017MPS-3 S101 BAND SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A12	12222017MPS-4 HIGH SCHOOL KITCHEN N SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A13	12222017MPS-5 HIGH SCHOOL KITCHEN MIDDLE N SNK	< 0.5 ug/L	15.0	10 Jan 18	RMV
18-A14	12222017MPS-6 HIGH SCHOOL KITCHEN MIDDLE S SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A15	12222017MPS-7 HIGH SCHOOL KITCHEN E SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A16	12222017MPS-8 HIGH SCHOOL KITCHEN RIGHT S SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A17	12222017MPS-9 HIGH SCHOOL KITCHEN LEFT S SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A18	12222017MPS-10 HIGH SCHOOL KITCHEN S SPRAYER	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A19	12222017MPS-11 HIGH SCHOOL KITCHEN N	< 0.5 ug/L	15.0	4 Jan 18	RMV

Approved by: R. Dan O'Connell

Dan O'Connell, Asst. 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

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	SPRAYER				
18-A20	12222017MPS-12 HIGH SCHOOL KITCHEN STEAM KETTLE	0.79 ug/L	15.0	4 Jan 18	RMV
18-A21	12222017MPS-13 SLUSHIE ROOM SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A22	12222017MPS-14 CAFETERIA DF	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A23	12222017MPS-15 POOL BOYS LOCKER ROOM DF	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A24	12222017MPS-16 POOL GIRLS LOCKER ROOM DF	0.56 ug/L	15.0	4 Jan 18	RMV
18-A25	12222017MPS-17 POOL DF	2.89 ug/L	15.0	4 Jan 18	RMV
18-A26	12222017MPS-18 S140 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A27	12222017MPS-19 HALLWAY ACROSS FROM THEATER LEFT SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A28	12222017MPS-20 HALLWAY ACROSS FROM THEATER RIGHT SNK	1.04 ug/L	15.0	4 Jan 18	RMV
18-A29	12222017MPS-21 HIGH SCHOOL OFFICE SNK	0.94 ug/L	15.0	4 Jan 18	RMV

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18-A30	12222017MPS-22 S128 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A31	12222017MPS-23 S127-1	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A32	12222017MPS-24 S127-2	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A33	12222017MPS-25 S127-3	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A34	12222017MPS-26 S127-4	< 0.5 ug/L	15.0	10 Jan 18	RMV
18-A35	12222017MPS-27 S127-5	< 0.5 ug/L	15.0	10 Jan 18	RMV
18-A36	12222017MPS-28 S127-6	0.72 ug/L	15.0	4 Jan 18	RMV
18-A37	12222017MPS-29 S127-7	< 0.5 ug/L	15.0	10 Jan 18	RMV
18-A38	12222017MPS-30 FACULTY LOUNGE SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A39	12222017MPS-31 S121/S120 E SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A40	12222017MPS-32 S121/S120 MIDDLE N SNK	< 0.5 ug/L	15.0	10 Jan 18	RMV
18-A41	12222017MPS-33 S121/S120 MIDDLE S SNK	< 0.5 ug/L	15.0	10 Jan 18	RMV
18-A42	12222017MPS-34 HALLWAY ACROSS FROM S118	< 0.5 ug/L	15.0	4 Jan 18	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
	RIGHT WC				
18-A43	12222017MPS-35 HALLWAY ACROSS FROM S118 BOTTLE FILLER	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A44	12222017MPS-36 HALLWAY ACROSS FROM S118 LEFT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A45	12222017MPS-37 S116 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A46	12222017MPS-38 S109 SNK	0.61 ug/L	15.0	4 Jan 18	RMV
18-A47	12222017MPS-39 S153 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A48	12222017MPS-40 S154 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A49	12222017MPS-41 S155 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A50	12222017MPS-42 ALC COMMONS RIGHT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A51	12222017MPS-43 ALC COMMONS BOTTLE FILLER	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A52	12222017MPS-44 ALC COMMONS LEFT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A53	12222017MPS-45 ALC COMMONS SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A54	12222017MPS-46 S213 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A55	12222017MPS-47 S209 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A56	12222017MPS-48 SECOND FLOOR SOUTH HALLWAY RIGHT DF	0.83 ug/L	15.0	4 Jan 18	RMV
18-A57	12222017MPS-49 SECOND FLOOR SOUTH HALLWAY LEFT DF	0.56 ug/L	15.0	4 Jan 18	RMV
18-A58	12222017MPS-50 S234 MEDIA CENTER LOUNGE SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A59	12222017MPS-51 S229 SNK	54.0 ug/L	15.0	4 Jan 18	RMV
18-A60	12222017MPS-52 S227 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A61	12222017MPS-53 S226 SNK	< 0.5 ug/L	15.0	10 Jan 18	RMV
18-A62	12222017MPS-54 S225 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A63	12222017MPS-55 SECOND FLOOR NORTH HALLWAY LEFT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV

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Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A64	12222017MPS-56 SECOND FLOOR NORTH HALLWAY RIGHT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A65	12222017MPS-57 SECOND FLOOR NORTH HALLWAY BOTTLE FILLER	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A66	12222017MPS-58 S224 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A67	12222017MPS-59 S223 SNK	0.71 ug/L	15.0	4 Jan 18	RMV
18-A68	12222017MPS-60 S222 SNK	2.68 ug/L	15.0	4 Jan 18	RMV
18-A69	12222017MPS-61 HALLWAY ACROSS FROM S159 LEFT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A70	12222017MPS-62 HALLWAY ACROSS FROM S159 RIGHT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A71	12222017MPS-63 S151B WEIGHT ROOM LEFT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A72	12222017MPS-64 S151B WEIGHT ROOM RIGHT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A73	12222017MPS-65 S150 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV

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18-A74	12222017MPS-66 S150 WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A75	12222017MPS-67 BOYS LOCKER ROOM WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A76	12222017MPS-68 GIRLS LOCKER ROOM WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A77	12222017MPS-69 HALLWAY ACROSS FROM DISTRICT OFFICE WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A78	12222017MPS-70 HALLWAY ACROSS FROM DISTRICT OFFICE BOTTLE FILLER	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A79	12222017MPS-71 BOARD ROOM SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A80	12222017MPS-72 DISTRICT OFFICE KITCHEN SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A81	12222017MPS-73 NURSES OFFICE SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A82	12222017MPS-74 E160 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A83	12222017MPS-75 E158 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A84	12222017MPS-76 E156 E	< 0.5 ug/L	15.0	4 Jan 18	RMV

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Report Date: 11 Jan 2018

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

Work Order #: 12-3003
Account #: 002190
Purchase Order #: 201711090

Date Received: 29 Dec 2017
Date Sampled: 22 Dec 2017
Temperature at Receipt: 10.4C

PROJECT NAME: MILACA PUBLIC SCHOOLS
PROJECT NUMBER: 201711090

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A85	12222017MPS-77 CORNER ROOM SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A86	12222017MPS-78 E154 SNK	0.62 ug/L	15.0	4 Jan 18	RMV
18-A87	12222017MPS-79 E154 DF	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A88	12222017MPS-80 SE LEFT OFFICE SNK	0.60 ug/L	15.0	10 Jan 18	RMV
18-A89	12222017MPS-81 SE RIGHT OFFICE SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A90	12222017MPS-82 E150 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A91	12222017MPS-83 E149 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A92	12222017MPS-84 E165 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A93	12222017MPS-85 S164 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A94	12222017MPS-86 E166 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A95	12222017MPS-87 E167 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A96	12222017MPS-88 E168 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A97	12222017MPS-89 E169 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV

Approved by: R. Dan O'Connell

Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN

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

MVTL

MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
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18-A98	12222017MPS-90 E170 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A99	12222017MPS-91 E171 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A100	12222017MPS-92 LOUNGE SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A101	12222017MPS-93 ELEMENTARY NURSE SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A102	12222017MPS-94 HALLWAY ACROSS FROM E104 WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A103	12222017MPS-95 HALLWAY ACROSS FROM E104 BOTTLE FILLER	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A104	12222017MPS-96 E176 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A105	12222017MPS-97 CAFETERIA GYM WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A106	12222017MPS-98 ELEMENTARY KITCHEN E SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A107	12222017MPS-99 ELEMENTARY KITCHEN W SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A108	12222017MPS-100 ELEMENTARY KITCHEN SPRAYER	1.37 ug/L	15.0	4 Jan 18	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A109	12222017MPS-101 ROOM ACROSS FROM ELEMENTARY KITCHEN SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A110	12222017MPS-102 E105 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A111	12222017MPS-103 E108 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A112	12222017MPS-104 E107 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A113	12222017MPS-105 E117 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A114	12222017MPS-106 E109 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A115	12222017MPS-107 E112 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A116	12222017MPS-108 E111 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A117	12222017MPS-109 E113 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A118	12222017MPS-110 E114 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A119	12222017MPS-111 E116 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A120	12222017MPS-112 E115 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A121	12222017MPS-113 HALLWAY ACROSS FROM E117 LEFT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A122	12222017MPS-114 HALLWAY ACROSS FROM E117 RIGHT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A123	12222017MPS-115 E117 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A124	12222017MPS-116 E119 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A125	12222017MPS-117 E121 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A126	12222017MPS-118 E123 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A127	12222017MPS-119 MEDIA CENTER COPY ROOM SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A128	12222017MPS-120 E125 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A129	12222017MPS-121 E127 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A130	12222017MPS-122 E129 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A131	12222017MPS-123 E131 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A132	12222017MPS-124 HALLWAY OUTSIDE ROOM E131 LEFT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A133	12222017MPS-125 HALLWAY OUTSIDE ROOM E131 RIGHT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A134	12222017MPS-126 E134 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A135	12222017MPS-127 E136 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A136	12222017MPS-128 E133 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A137	12222017MPS-129 E135 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A138	12222017MPS-130 E138 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A139	12222017MPS-131 E140 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A140	12222017MPS-132 E137 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A141	12222017MPS-133 E141 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A142	12222017MPS-134 E139 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A143	12222017MPS-135 HALLWAY ACROSS FROM E139 WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A144	12222017MPS-136 E142 SNK	1.04 ug/L	15.0	4 Jan 18	RMV
18-A145	12222017MPS-137 E143 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A146	12222017MPS-138 E144 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A147	12222017MPS-139 E145 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A148	12222017MPS-140 E146 SNK	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A149	12222017MPS-141 HALLWAY NEXT TO E146 LEFT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV
18-A150	12222017MPS-142 HALLWAY NEXT TO E146 RIGHT WC	< 0.5 ug/L	15.0	4 Jan 18	RMV

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Chain of Custody

9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
763.315.7900 1.800.233.9513

Client Name	Milaca Public Schools	Building Name	Milaca Public Schools	Analytical Lab	MVTL
Contact Name	Heidi Edholm	Project #	201711090	Project Name	Milaca Lead-in-Water Testing
Phone #	763-315-7900	IEA Fax #	763-315-7920	Written Sample Results To	Jennifer Theis

Other Information							
Sampled By	Ryan Rand and Grant Chapa	Date 12/22/17	Time 6:30 AM	Analyzed By (Company)		Analyst	Date & Time
Shipped By	Carole Nelson	Date 12/22/17	Time 12:00 PM	Turnaround Time		Notes	
Received By		Date	Time	Sample Condition		Temperature	

Lab Number	Sample Number	Sample Location	Sample Type			Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
			Water	Soil	Other				
	12222017MPS-1	S104 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-2	S103 WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-3	S101-Band SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-4	High School Kitchen N SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-5	High School Kitchen Middle N SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-6	High School Kitchen Middle S SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-7	High School Kitchen E SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-8	High School Kitchen Right S SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-9	High School Kitchen Left S SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-10	High School Kitchen S Sprayer	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-11	High School Kitchen N Sprayer	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-12	High School Kitchen Steam Kettle	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-13	Slushie Room SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-14	Cafeteria DF	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-15	Pool Boys Locker Room DF	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-16	Pool Girls Locker Room DF	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-17	Pool DF	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-18	S140 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-19	Hallway across from theater Left SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-20	Hallway across from theater Right SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-21	High School Office SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-22	S128 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-23	S127 - 1	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-24	S127 - 2	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-25	S127 - 3	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-26	S127 - 4	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-27	S127 - 5	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-28	S127 - 6	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-29	S127 - 7	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-30	Faculty Lounge SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-31	S121/S120 E SNK	X			12/22/2017	250 mL unpreserved	Lead	

Original - Analytical Lab
Copy - Client File
Copy - IEA Lab

Chain of Custody

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Contact Name	Heidi Edholm	Project #	201711090	Project Name	Milaca Lead-in-Water Testing
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Received By		Date	Time	Sample Condition		Temperature	

Lab Number	Sample Number	Sample Location	Sample Type			Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
			Water	Soil	Other				
	12222017MPS-32	S121/S120 Middle N SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-33	S121/S120 Middle S SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-34	Hallway across from S118 Right WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-35	Hallway across from S118 Bottle Filler	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-36	Hallway across from S118 Left WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-37	S116 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-38	S109 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-39	S153 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-40	S154 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-41	S155 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-42	ALC Commons Right WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-43	ALC Commons Bottle Filler	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-44	ALC Commons Left WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-45	ALC Commons SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-46	S213 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-47	S209 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-48	Second Floor South Hallway Right DF	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-49	Second Floor South Hallway left DF	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-50	S234-Media Center Lounge SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-51	S229 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-52	S227 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-53	S226 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-54	S225 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-55	Second Floor North Hallway Left WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-56	Second Floor North Hallway Right WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-57	Second Floor North Hallway Bottle Filler	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-58	S224 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-59	S223 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-60	S222 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-61	Hallway Across from S159 Left WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-62	Hallway Across from S159 Right WC	X			12/22/2017	250 mL unpreserved	Lead	

Original - Analytical Lab
Copy - Client File
Copy - IEA Lab

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Contact Name	**Heidi Edholm**	**Project #**	201711090	**Project Name**	Milaca Lead-in-Water Testing
Phone #	**763-315-7900**	**IEA Fax #**	763-315-7920	**Written Sample Results To**	Jennifer Theis

Other Information							
Sampled By	**Ryan Rand and Grant Chapa**	**Date** 12/22/17	**Time** 6:30 AM	**Analyzed By (Company)**		**Analyst**	**Date & Time**
Shipped By	**Carole Nelson**	**Date** 12/22/17	**Time** 12:00 PM	**Turnaround Time**		Notes	
Received By		**Date**	**Time**	**Sample Condition**		**Temperature**	

Lab Number	Sample Number	Sample Location	Sample Type			Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
			Water	Soil	Other				
	12222017MPS-63	S151B-Weight Room Left WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-64	S151B-Weight Room right WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-65	S150 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-66	S150 WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-67	Boys Locker Room WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-68	Girls Locker Room WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-69	Hallway across from District Office WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-70	Hallway across from District Office Bottle Filler	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-71	Board Room SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-72	District Office Kitchen SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-73	Nurses Office SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-74	E160 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-75	E158 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-76	E156 E	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-77	Corner Room SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-78	E154 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-79	E154 DF	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-80	SE Left Office SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-81	SE Right Office SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-82	E150 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-83	E149 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-84	E165 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-85	S164 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-86	E166 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-87	E167 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-88	E168 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-89	E169 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-90	E170 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-91	E171 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-92	Lounge SNK	X			12/22/2017	250 mL unpreserved	Lead	

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9201 West Broadway North, Suite 600
Brooklyn Park, MN 55445
763.315.7900 1.800.233.9513

Client Name	Milaca Public Schools	Building Name	Milaca Public Schools	Analytical Lab	MVTL
Contact Name	Heidi Edholm	Project #	201711090	Project Name	Milaca Lead-in-Water Testing
Phone #	763-315-7900	IEA Fax #	763-315-7920	Written Sample Results To	Jennifer Theis

Other Information							
Sampled By	Ryan Rand and Grant Chapa	Date 12/22/17	Time 6:30 AM	Analyzed By (Company)		Analyst	Date & Time
Shipped By	Carole Nelson	Date 12/22/17	Time 12:00 PM	Turnaround Time		Notes	
Received By		Date	Time	Sample Condition		Temperature	

Lab Number	Sample Number	Sample Location	Sample Type			Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
			Water	Soil	Other				
	12222017MPS-93	Elementary Nurse SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-94	Hallway across from E104 WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-95	Hallway across from E104 Bottle Filler	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-96	E176 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-97	Cafeteria Gym WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-98	Elementary Kitchen E SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-99	Elementary Kitchen W SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-100	Elementary Kitchen Sprayer	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-101	Room across from Elementary Kitchen SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-102	E105 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-103	E108 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-104	E107 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-105	E117 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-106	E109 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-107	E112 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-108	E111 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-109	E113 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-110	E114 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-111	E116 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-112	E115 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-113	Hallway across from E117 Left WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-114	Hallway across from E117 Right WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-115	E117 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-116	E119 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-117	E121 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-118	E123 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-119	Media Center Copy Room SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-120	E125 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-121	E127 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-122	E129 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-123	E131 SNK	X			12/22/2017	250 mL unpreserved	Lead	

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Contact Name	Heidi Edholm	Project #	201711090	Project Name	Milaca Lead-in-Water Testing
Phone #	763-315-7900	IEA Fax #	763-315-7920	Written Sample Results To	Jennifer Theis

Other Information							
Sampled By	Ryan Rand and Grant Chapa	Date 12/22/17	Time 6:30 AM	Analyzed By (Company)	Analyst	Date & Time	
Shipped By	Carole Nelson	Date 12/22/17	Time 12:00 PM	Turnaround Time		Notes	
Received By		Date	Time	Sample Condition		Temperature	

Lab Number	Sample Number	Sample Location	Sample Type			Date Sampled	Volume/ Bottle Type	Analysis Required	Comments & Observations
			Water	Soil	Other				
	12222017MPS-124	Hallway outside room E131 Left WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-125	Hallway outside room E131 Right WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-126	E134 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-127	E136 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-128	E133 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-129	E135 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-130	E138 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-131	E140 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-132	E137 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-133	E141 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-134	E139 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-135	Hallway across from E139 WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-136	E142 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-137	E143 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-138	E144 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-139	E145 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-140	E146 SNK	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-141	Hallway next to E146 Left WC	X			12/22/2017	250 mL unpreserved	Lead	
	12222017MPS-142	Hallway next to E146 Right WC	X			12/22/2017	250 mL unpreserved	Lead	

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Normal	500mL unpreserved	Lead
Rush	40mL unpreserved	GRO
Other		DRO
		BTEX

Normal	500mL unpreserved	Lead
Rush	40mL unpreserved	GRO
Other		DRO
		BTEX

Normal	500mL unpreserved	Lead
Rush	40mL unpreserved	GRO
Other		DRO
		BTEX

Normal	500mL unpreserved	Lead
Rush	40mL unpreserved	GRO
Other		DRO
		BTEX

Normal	500mL unpreserved	Lead
Rush	40mL unpreserved	GRO
Other		DRO
		BTEX

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