

November 18, 2016



Mr. Mike Vogel
Interim Director of Facilities and Construction Management
South Washington County Schools
7362 East Douglas Point Road S
Cottage Grove, MN 55016
P 651-425-6274
E mvogel@sowashco.org

**RE: Woodbury High School
Lead-in-Water Testing
IEA Project #201610819**

Dear Mr. Vogel,

At the request of South Washington County Schools, IEA collected a total of 76 samples of drinking water, 74 on September 28, 2016 and two (2) on November 11, 2016, for lead analyses from the Woodbury High School building.

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 Environmental Protection Agency (EPA) established the Lead Contamination Control Act (LCCA) of 1988 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, solder, 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 76 first-draw (unless otherwise noted) 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. Current protocol calls for flushing locations 8-18 hours prior to sampling.

Site map with sample locations are included in Appendix A. Water samples were analyzed by Minnesota Valley Testing Laboratories (MVTTL) 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.
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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

VIRGINIA
5525 Emerald Avenue
Mountain Iron, MN 55768
218-410-9521
FAX 763-315-7920
800-233-9513

RESULTS & DISCUSSION

The lead-in-water sampling results ranged from below the level of detection (<0.05 ppb) to 55.8 ppb. There are three (3) sample results greater than 20 ppb. See *Table 1: Water Testing Results 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 Results Exceeding 20 ppb – September 28, 2016 and November 11, 2016

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A52163	Woodbury High School	Room 116 Sink #1	Faucet	21.9
16-A52197	Woodbury High School	Sink behind Auditorium	Faucet	33.5
16-A61698	Woodbury High School	Sink Room 250	Faucet	55.8

ppb – parts per billion

In addition, four (4) results showed lead levels between 15 ppb and 20 ppb. See *Table 2: Water Testing Results Approaching 20 ppb* for these results. 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.

Table 2: Water Testing Results Approaching 20 ppb – September 28, 2016

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
16-A52151	Woodbury High School	Drinking Fountain #11	Drinking Fountain	17.1
16-A52171	Woodbury High School	Room 167 Sink #1	Faucet	16.4
16-A52172	Woodbury High School	Room 167 Sink #2	Faucet	19.7
16-A52196	Woodbury High School	Drinking Fountain near Room 255	Drinking Fountain	16.8

ppb – parts per billion

RECOMMENDATIONS

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

- Install a point-of-use treatment device, such as the Omnipure OMB934 1M Lead Reduction Filter.
- 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 “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 the 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.

GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon water testing at South Washington County 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 #5406A dated August 5, 2016 regarding Lead-in-Water Testing, 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.


Amy Satterfield, CPPM I
Director of Business Development


Karen Weiblen
EHS/IEQ Consultant

Enclosure

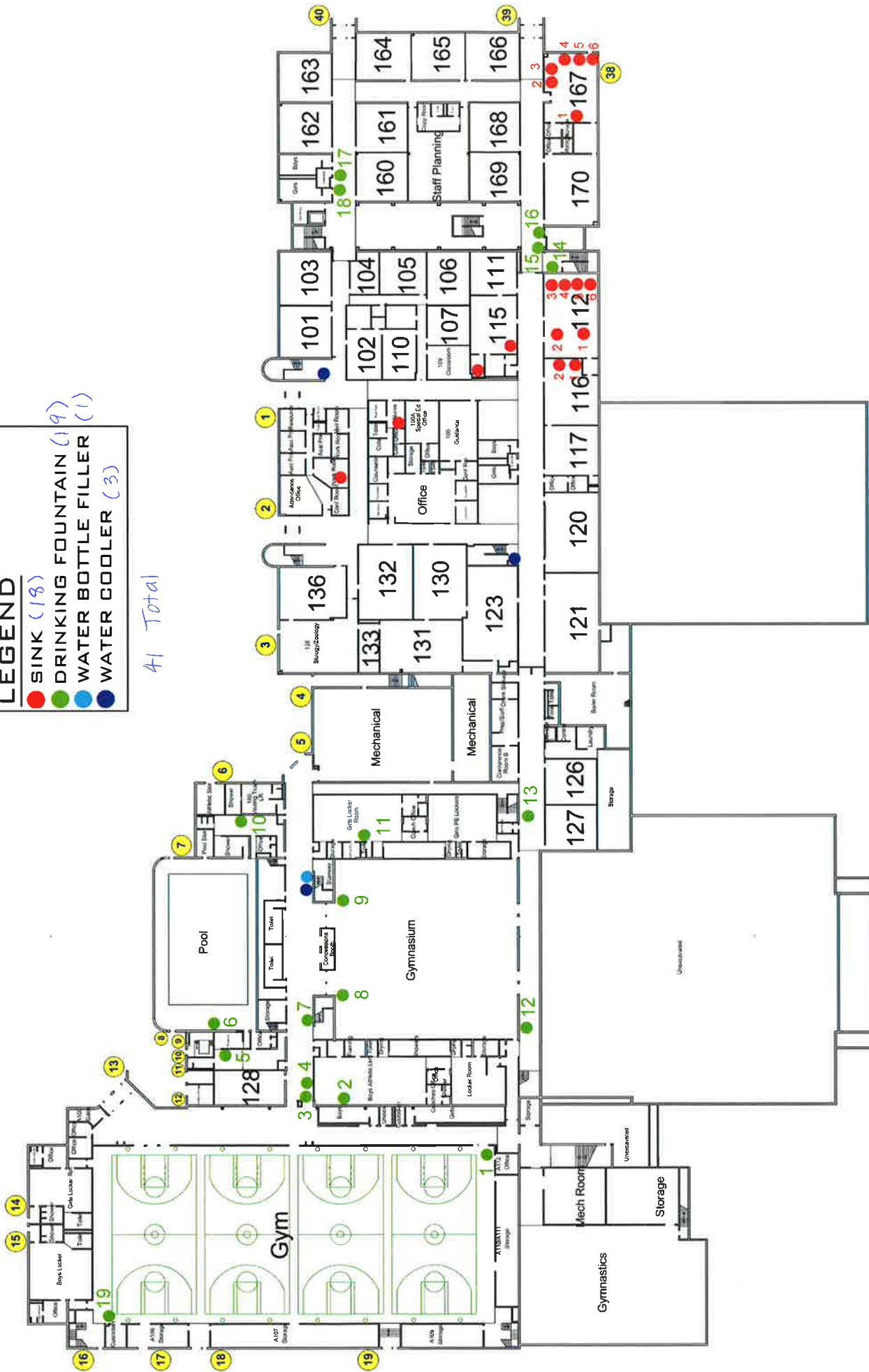
cc: Damien Nelson, Safety & Security

Appendix A
Site Map/Drawing

LEGEND

- SINK (18)
- DRINKING FOUNTAIN (19)
- WATER BOTTLE FILLER (1)
- WATER COOLER (3)

41 Total



WOODBURY HIGH SCHOOL

FIRST LEVEL FLOOR PLAN

NOV. 2016



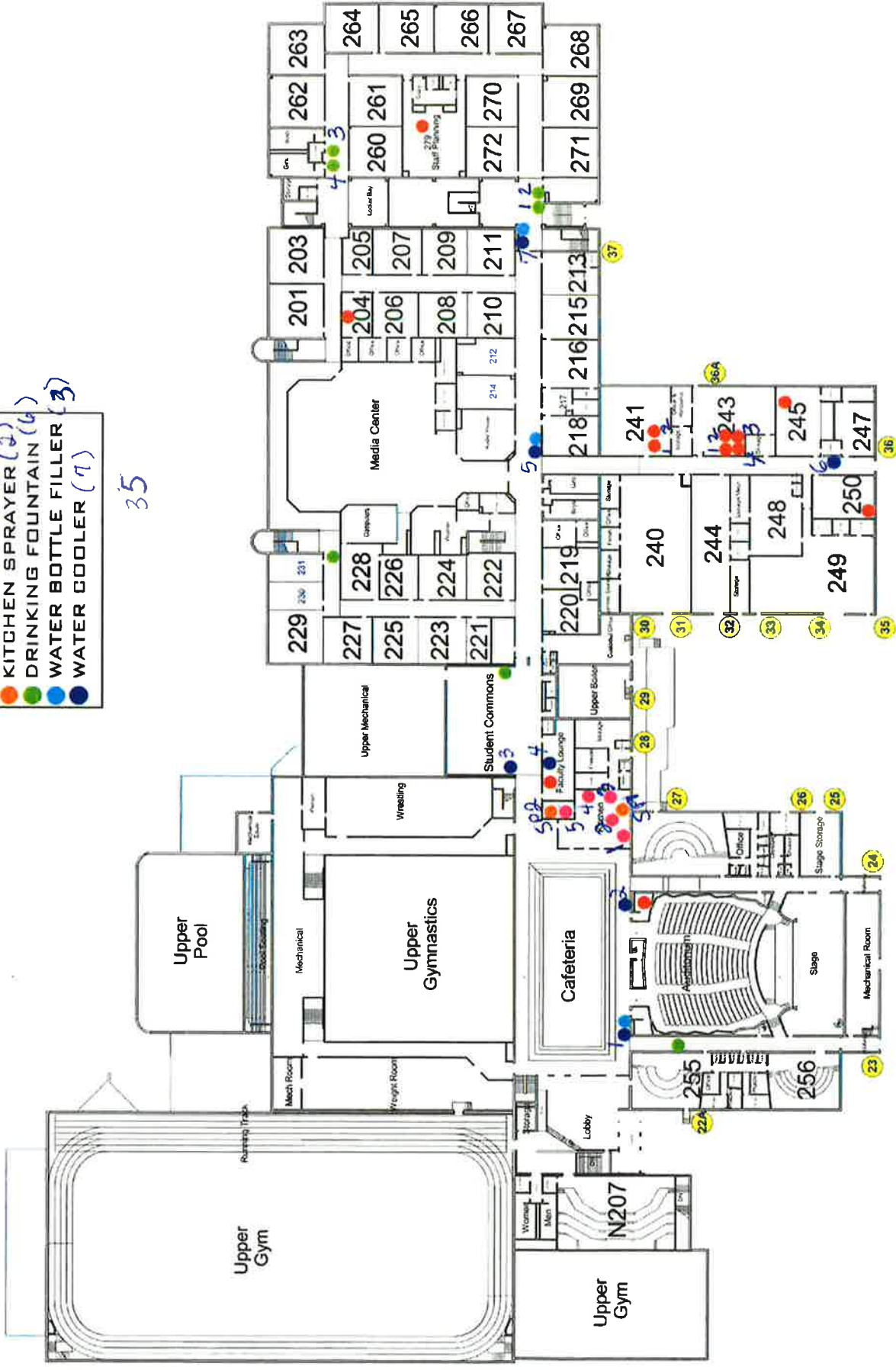
INSTITUTE FOR ENVIRONMENTAL ASSESSMENT

9201 West Broadway Brooklyn Park, MN 55445
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LEGEND

- SINK (18)
- KITCHEN SINK (5)
- KITCHEN SPRAYER (2)
- DRINKING FOUNTAIN (6)
- WATER BOTTLE FILLER (3)
- WATER COOLER (7)

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Appendix B

Laboratory Testing Report



MINNESOTA VALLEY TESTING LABORATORIES, INC.

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

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AN EQUAL OPPORTUNITY EMPLOYER

Report Date: 8 Nov 2016

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

Work Order #: 12-14885
 Account #: 002190
 Purchase Order #: 201610819

Date Received: 28 Sep 2016
 Date Sampled: 28 Sep 2016
 Temperature at Receipt: 18.6C

PROJECT NAME: WOODBURY HIGH SCHOOL
 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A52141	09282016WHS-1 DF #1	1.08 ug/L	15.0	28 Oct 16	RMV
16-A52142	09282016WHS-2 DF #2	5.35 ug/L	15.0	28 Oct 16	RMV
16-A52143	09282016WHS-3 DF #3	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52144	09282016WHS-4 DF #4	0.78 ug/L	15.0	28 Oct 16	RMV
16-A52145	09282016WHS-5 DF #5	6.90 ug/L	15.0	28 Oct 16	RMV
16-A52146	09282016WHS-6 DF #6	3.53 ug/L	15.0	28 Oct 16	RMV
16-A52147	09282016WHS-7 DF #7	8.85 ug/L	15.0	28 Oct 16	RMV
16-A52148	09282016WHS-8 DF #8	5.26 ug/L	15.0	28 Oct 16	RMV
16-A52149	09282016WHS-9 DF #9	4.79 ug/L	15.0	28 Oct 16	RMV
16-A52150	09282016WHS-10 DF #10	8.81 ug/L	15.0	28 Oct 16	RMV
16-A52151	09282016WHS-11 DF #11	17.1 ug/L	15.0	28 Oct 16	RMV
16-A52152	09282016WHS-12 DF #12	6.49 ug/L	15.0	28 Oct 16	RMV
16-A52153	09282016WHS-13 DF #13	8.01 ug/L	15.0	28 Oct 16	RMV
16-A52154	09282016WHS-14 DF #14	0.65 ug/L	15.0	28 Oct 16	RMV
16-A52155	09282016WHS-15 DF #15	0.77 ug/L	15.0	28 Oct 16	RMV

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 ! = 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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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A52156	09282016WHS-16 DF #16	1.23 ug/L	15.0	28 Oct 16	RMV
16-A52157	09282016WHS-17 DF #17	1.01 ug/L	15.0	28 Oct 16	RMV
16-A52158	09282016WHS-18 DF #18	1.09 ug/L	15.0	28 Oct 16	RMV
16-A52159	09282016WHS-19 DF #19	0.73 ug/L	15.0	28 Oct 16	RMV
16-A52160	09282016WHS-20 BOTTLE FILLER NEAR DF #9	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52161	09282016WHS-21 WATER COOLER NEAR DF #9	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52162	09282016WHS-22 DF NEAR RM 123	2.07 ug/L	15.0	28 Oct 16	RMV
16-A52163	09282016WHS-23 SINK #1 116	21.9 ug/L	15.0	28 Oct 16	RMV
16-A52164	09282016WHS-24 SINK #2 116	12.8 ug/L	15.0	28 Oct 16	RMV
16-A52165	09282016WHS-25 SINK #1 112	4.03 ug/L	15.0	28 Oct 16	RMV
16-A52166	09282016WHS-26 SINK #2 112	8.59 ug/L	15.0	28 Oct 16	RMV
16-A52167	09282016WHS-27 SINK #3 112	4.75 ug/L	15.0	28 Oct 16	RMV
16-A52168	09282016WHS-28 SINK #4 112	4.79 ug/L	15.0	28 Oct 16	RMV
16-A52169	09282016WHS-29 SINK #5 112	Not Entered	15.0		
16-A52170	09282016WHS-30 SINK #6 112	2.75 ug/L	15.0	28 Oct 16	RMV

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 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A52171	09282016WHS-31 SINK #1 167	16.4 ug/L	15.0	28 Oct 16	RMV
16-A52172	09282016WHS-32 SINK #2 167	19.7 ug/L	15.0	28 Oct 16	RMV
16-A52173	09282016WHS-33 SINK #3 167	4.19 ug/L	15.0	28 Oct 16	RMV
16-A52174	09282016WHS-34 SINK #4 167	9.24 ug/L	15.0	28 Oct 16	RMV
16-A52175	09282016WHS-35 SINK #5 167	3.94 ug/L	15.0	28 Oct 16	RMV
16-A52176	09282016WHS-36 SINK #6 167	5.31 ug/L	15.0	28 Oct 16	RMV
16-A52177	09282016WHS-37 WATER COOLER NEAR 101	3.38 ug/L	15.0	28 Oct 16	RMV
16-A52178	09282016WHS-38 SINK WORK ROOM	1.08 ug/L	15.0	28 Oct 16	RMV
16-A52179	09282016WHS-39 SINK NURSES OFFICE	3.97 ug/L	15.0	28 Oct 16	RMV
16-A52180	09282016WHS-40 SINK 115	1.03 ug/L	15.0	28 Oct 16	RMV
16-A52181	09282016WHS-41 SINK NEAR 115	8.18 ug/L	15.0	28 Oct 16	RMV
16-A52182	09282016WHS-42 KITCHEN SINK #1	1.63 ug/L	15.0	28 Oct 16	RMV
16-A52183	09282016WHS-43 KITCHEN SINK #2	1.35 ug/L	15.0	28 Oct 16	RMV
16-A52184	09282016WHS-44 KITCHEN SINK #3	4.83 ug/L	15.0	28 Oct 16	RMV

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 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A52185	09282016WHS-45 KITCHEN SINK #4	5.50 ug/L	15.0	28 Oct 16	RMV
16-A52186	09282016WHS-46 KITCHEN SINK #5	6.25 ug/L	15.0	28 Oct 16	RMV
16-A52187	09282016WHS-47 KITCHER SPRAYER #1	2.74 ug/L	15.0	28 Oct 16	RMV
16-A52188	09282016WHS-48 KITCHER SPRAYER #2	0.88 ug/L	15.0	28 Oct 16	RMV
16-A52189	09282016WHS-49 WATER COOLER #1	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52190	09282016WHS-50 WATER COOLER #2	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52191	09282016WHS-51 WATER COOLER #3	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52192	09282016WHS-53 WATER COOLER #5	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52193	09282016WHS-54 WATER COOLER #6	3.67 ug/L	15.0	28 Oct 16	RMV
16-A52194	09282016WHS-55 WATER COOLER #7	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52195	09282016WHS-56 BOTTLE FILLER NEAR WC #1	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52196	09282016WHS-57 DF NEAR 255	16.8 ug/L	15.0	28 Oct 16	RMV
16-A52197	09282016WHS-58 SINK BEHIND AUDITORIUM (CONC.)	33.5 ug/L	15.0	28 Oct 16	RMV
16-A52198	09282016WHS-59 SINK FACULTY LOUNGE	12.9 ug/L	15.0	28 Oct 16	RMV

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 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A52199	09282016WHS-60 INLINE FIXTURE FACULTY LOUNGE	1.74 ug/L	15.0	28 Oct 16	RMV
16-A52200	09282016WHS-61 DF NEAR 221	11.9 ug/L	15.0	28 Oct 16	RMV
16-A52201	09282016WHS-62 BOTTLE FILLER NEAR WC #5	< 0.5 ug/L	15.0	28 Oct 16	RMV
16-A52202	09282016WHS-63 SINK #1 241	11.3 ug/L	15.0	28 Oct 16	RMV
16-A52203	09282016WHS-64 SINK #2 241	6.28 ug/L	15.0	28 Oct 16	RMV
16-A52204	09282016WHS-65 SINK #1 243	4.61 ug/L	15.0	28 Oct 16	RMV
16-A52205	09282016WHS-66 SINK #2 243	3.29 ug/L	15.0	28 Oct 16	RMV
16-A52206	09282016WHS-67 SINK #3 243	3.51 ug/L	15.0	28 Oct 16	RMV
16-A52207	09282016WHS-68 SINK #4 243	3.98 ug/L	15.0	28 Oct 16	RMV
16-A52208	09282016WHS-69 SINK 245	1.66 ug/L	15.0	28 Oct 16	RMV
16-A52209	09282016WHS-70 SINK 250	Not Entered	15.0		
16-A52210	09282016WHS-72 DF #1	0.70 ug/L	15.0	28 Oct 16	RMV
16-A52211	09282016WHS-73 DF #2	1.42 ug/L	15.0	28 Oct 16	RMV
16-A52212	09282016WHS-74 DF #3	1.00 ug/L	15.0	28 Oct 16	RMV

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16-A52213	09282016WHS-75 DF #4	1.28 ug/L	15.0	28 Oct 16	RMV
16-A52214	09282016WHS-76 DF #5	3.12 ug/L	15.0	28 Oct 16	RMV
16-A52215	09282016WHS-77 SINK 279	2.40 ug/L	15.0	28 Oct 16	RMV
16-A52216	09282016WHS-78 SINK 204	6.76 ug/L	15.0	28 Oct 16	RMV

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@ = 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

MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

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1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
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PRELIMINARY REPORT ONLY

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

Report Date:

Work Order #: 12-17253
Account #: 002190
Purchase Order #: 201610819

Date Received: 14 Nov 2016
Date Sampled: 11 Nov 2016
Temperature at Receipt: 11.9C

PROJECT NAME: WOODBURY HS
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A61697	11112016WHS-1 SINK #5 ROOM 112	9.02 ug/L	15.0	17 Nov 16	RMV
16-A61698	11112016WHS-2 SINK ROOM 250	55.8 ug/L	15.0	17 Nov 16	RMV

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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.

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