

November 9, 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: East Ridge 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 82 samples of drinking water, 71 on September 22, 2016 and eleven (11) on November 3, 2016, for lead analyses from the East Ridge 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, 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 82 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 (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.

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610 North Riverfront Drive
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507-345-8818
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210 Woodlake Drive SE
Rochester, MN 55904
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Marshall, MN 56258
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800-233-9513

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RESULTS & DISCUSSION

The lead-in-water sampling results for East Ridge High School ranged from below the level of detection (<0.05 ppb) to 340 ppb. The laboratory report is provided in Appendix B. Laboratory results are reported in micrograms per liter ($\mu\text{g/L}$) which is equivalent to parts per billion (ppb).

The East Ridge High School kitchen steam kettle sampled on September 22, 2016 indicated a lead level at 340 ppb. This location was re-sampled on November 3, 2016 with a sample result of 41.8 ppb which is greater than the action level of 20 ppb. See *Table 1: Water Testing Results* for these results.

Table 1: Water Testing Results – East Ridge High School Kitchen Steam Kettle

Sample Number	Sample Date	Sampling Location	Fixture Type	Lead Results (ppb)
16-A50625	September 22, 2016	Kitchen Steam Kettle	Faucet	340
16-A59946	November 3, 2016	aka ERHS-1 Kitchen Steam Kettle	Faucet	41.8

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 for East Ridge High School was 10.6 ppb, the kitchen sprayer #1.

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 (27)
- KITCHEN SINK (6) ● STEAM KETTLE (1)
- KITCHEN SPRAYER (4)
- DRINKING FOUNTAIN (19)
- INLINE HOT/COLD DISPENSER (1)



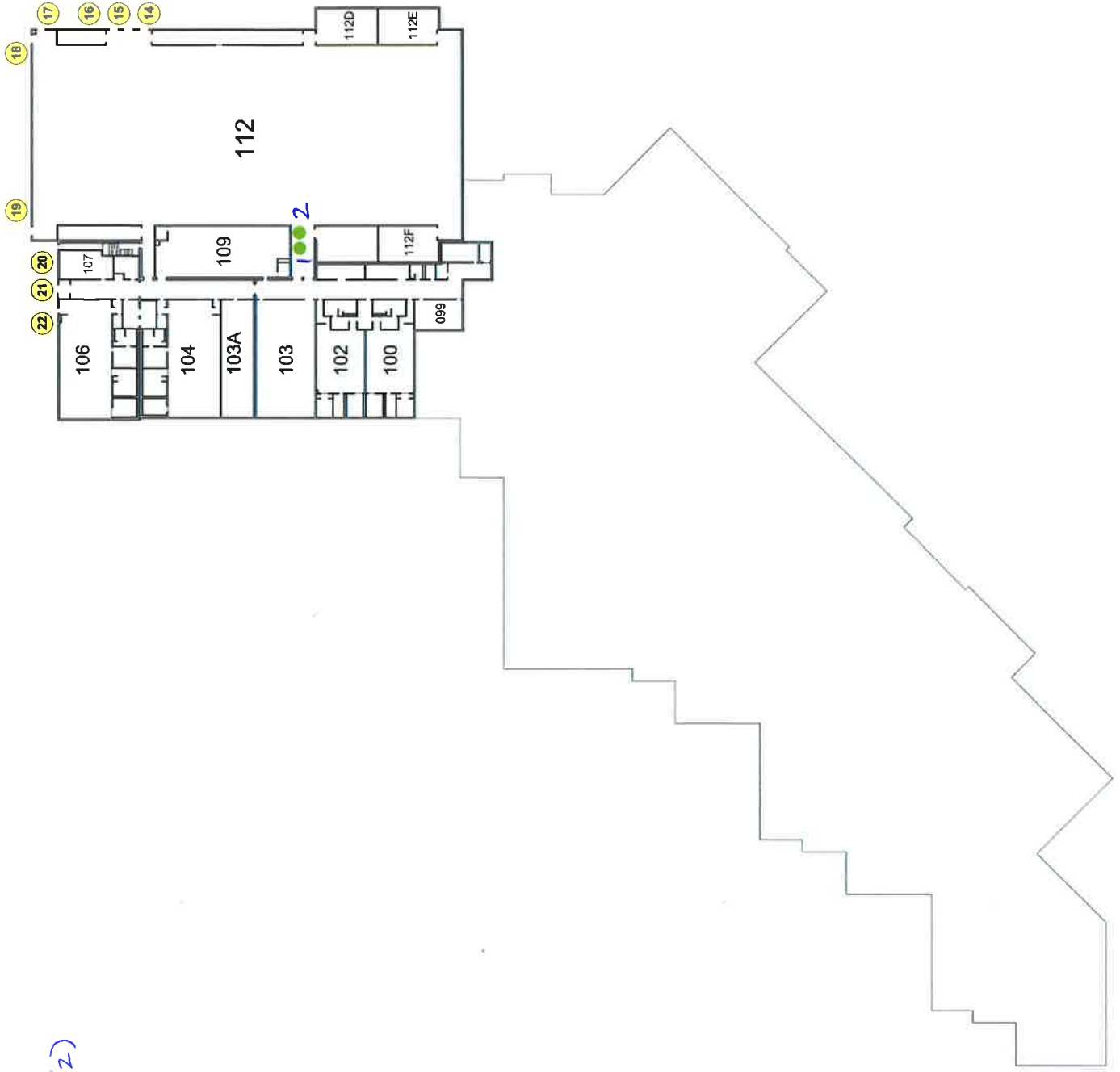
LEGEND

- SINK (G)
- DRINKING FOUNTAIN (G)



LEGEND

- DRINKING FOUNTAIN (2)



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

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Report Date: 19 Oct 2016

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

Work Order #: 12-14658
Account #: 002190
Purchase Order #: 201610819

Date Received: 22 Sep 2016
Date Sampled: 22 Sep 2016
Temperature at Receipt: 19.9C

PROJECT NAME: EAST RIDGE HS
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50623	09222016ERHS-1 KITCHEN SINK #1	5.60 ug/L	15.0	10 Oct 16	RMB
16-A50624	09222016ERHS-2 KITCHEN SINK #2	0.60 ug/L	15.0	10 Oct 16	RMB
16-A50625	09222016ERHS-3 KITCHEN STEAM KETTLE	340 ~ ug/L	15.0	17 Oct 16	RMV
-Sample diluted due to result above calibration or linear range.					
16-A50626	09222016ERHS-4 KITCHEN SINK #4	2.97 ug/L	15.0	10 Oct 16	RMB
16-A50627	09222016ERHS-5 KITCHEN SINK #5	3.81 ug/L	15.0	10 Oct 16	RMB
16-A50628	09222016ERHS-6 KITCHEN SINK #6	1.68 ug/L	15.0	10 Oct 16	RMB
16-A50629	09222016ERHS-7 KITCHEN SPRAYER #1	10.6 ug/L	15.0	17 Oct 16	RMV
16-A50630	09222016ERHS-8 KITCHEN SPRAYER #2	4.91 ug/L	15.0	10 Oct 16	RMB
16-A50631	09222016ERHS-9 KITCHEN SPRAYER #3	6.88 ug/L	15.0	10 Oct 16	RMB
16-A50632	09222016ERHS-10 KITCHEN SPRAYER #4	3.28 ug/L	15.0	10 Oct 16	RMB
16-A50633	09222016ERHS-11 DF #1	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50634	09222016ERHS-12 DF #2	< 0.5 ug/L	15.0	10 Oct 16	RMB

Approved by: 
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

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16-A50635	09222016ERHS-13 DF #3	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50636	09222016ERHS-14 DF #4	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50637	09222016ERHS-15 DF #5	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50638	09222016ERHS-16 DF #6	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50639	09222016ERHS-17 DF #7	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50640	09222016ERHS-18 DF #8	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50641	09222016ERHS-19 DF #9	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50642	09222016ERHS-20 DF #10	0.57 ug/L	15.0	10 Oct 16	RMB
16-A50643	09222016ERHS-21 DF #11	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50644	09222016ERHS-22 DF #12	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50645	09222016ERHS-23 DF #13	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50646	09222016ERHS-24 DF #14	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50647	09222016ERHS-25 DF #15	< 0.5 ug/L	15.0	10 Oct 16	RMB

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PROJECT NAME: EAST RIDGE HS
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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50648	09222016ERHS-26 DF #16	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50649	09222016ERHS-27 DF #17	< 0.5 ug/L	15.0	10 Oct 16	RMB
16-A50650	09222016ERHS-28 DF #18	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50651	09222016ERHS-29 DF #19	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50652	09222016ERHS-30 SINK #1 1053	6.04 ug/L	15.0	13 Oct 16	RMV
16-A50653	09222016ERHS-31 SINK #2 1053	5.83 ug/L	15.0	13 Oct 16	RMV
16-A50654	09222016ERHS-32 SINK 1066AB	0.54 ug/L	15.0	13 Oct 16	RMV
16-A50655	09222016ERHS-33 INLINE FIXTURE 1066AB	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50656	09222016ERHS-34 SINK #1 NEAR 1001	2.09 ug/L	15.0	13 Oct 16	RMV
16-A50657	09222016ERHS-35 SINK #2 NEAR 1001	4.36 ug/L	15.0	13 Oct 16	RMV
16-A50658	09222016ERHS-36 SINK NEAR 1003	1.58 ug/L	15.0	13 Oct 16	RMV
16-A50659	09222016ERHS-37 SINK 1017	4.35 ug/L	15.0	13 Oct 16	RMV

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PROJECT NAME: EAST RIDGE HS
 PROJECT NUMBER: 201610819

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16-A50660	09222016ERHS-38 SINK 1018	4.35 ug/L	15.0	13 Oct 16	RMV
16-A50661	09222016ERHS-39 SINK 1027	1.78 ug/L	15.0	13 Oct 16	RMV
16-A50662	09222016ERHS-40 SINK 1030	6.25 ug/L	15.0	13 Oct 16	RMV
16-A50663	09222016ERHS-41 RM 1028 SINK #1	2.36 ug/L	15.0	13 Oct 16	RMV
16-A50664	09222016ERHS-42 RM 1028 SINK #2	3.55 ug/L	15.0	13 Oct 16	RMV
16-A50665	09222016ERHS-43 RM 1028 SINK #3	2.54 ug/L	15.0	13 Oct 16	RMV
16-A50666	09222016ERHS-44 RM 1028 SINK #4	1.92 ug/L	15.0	13 Oct 16	RMV
16-A50667	09222016ERHS-45 RM 1028 SINK #5	2.28 ug/L	15.0	13 Oct 16	RMV
16-A50668	09222016ERHS-46 RM 1028 SINK #6	2.44 ug/L	15.0	13 Oct 16	RMV
16-A50669	09222016ERHS-47 RM 1028 SINK #7	2.25 ug/L	15.0	13 Oct 16	RMV
16-A50670	09222016ERHS-48 RM 1028 SINK #8	2.04 ug/L	15.0	13 Oct 16	RMV
16-A50671	09222016ERHS-49 RM 1038 SINK #1	1.02 ug/L	15.0	13 Oct 16	RMV
16-A50672	09222016ERHS-50 RM 1038 SINK #2	1.14 ug/L	15.0	13 Oct 16	RMV

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

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 Temperature at Receipt: 19.9C

PROJECT NAME: EAST RIDGE HS
 PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50673	09222016ERHS-51 RM 1038 SINK #3	1.19 ug/L	15.0	13 Oct 16	RMV
16-A50674	09222016ERHS-52 RM 1039 SINK #1	2.69 ug/L	15.0	13 Oct 16	RMV
16-A50675	09222016ERHS-53 RM 1039 SINK #2	3.44 ug/L	15.0	13 Oct 16	RMV
16-A50676	09222016ERHS-54 RM 1040 SINK #1	1.34 ug/L	15.0	13 Oct 16	RMV
16-A50677	09222016ERHS-55 RM 1040 SINK #2	2.28 ug/L	15.0	13 Oct 16	RMV
16-A50678	09222016ERHS-57 SINK #1 NEAR 1042	8.69 ug/L	15.0	13 Oct 16	RMV
16-A50679	09222016ERHS-58 SINK #2 NEAR 1042	8.57 ug/L	15.0	13 Oct 16	RMV
16-A50680	09222016ERHS-60 DF #1	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50681	09222016ERHS-61 DF #2	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50682	09222016ERHS-62 DF #1	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50683	09222016ERHS-63 DF #2	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50684	09222016ERHS-64 DF #3	< 0.5 ug/L	15.0	13 Oct 16	RMV

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

Page: 5

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PROJECT NUMBER: 201610819

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16-A50685	09222016ERHS-65 DF #4	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50686	09222016ERHS-66 DF #5	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50687	09222016ERHS-67 DF #6	< 0.5 ug/L	15.0	13 Oct 16	RMV
16-A50688	09222016ERHS-68 SINK 2007B	2.05 ug/L	15.0	13 Oct 16	RMV
16-A50689	09222016ERHS-69 SINK 2017	1.83 ug/L	15.0	13 Oct 16	RMV
16-A50690	09222016ERHS-70 SINK 2018B	3.50 ug/L	15.0	13 Oct 16	RMV
16-A50691	09222016ERHS-71 SINK 2027	1.21 ug/L	15.0	13 Oct 16	RMV
16-A50692	09222016ERHS-72 SINK 2028B	3.66 ug/L	15.0	13 Oct 16	RMV
16-A50693	09222016ERHS-73 SINK 2037	1.53 ug/L	15.0	13 Oct 16	RMV

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MVTL

MEMBER
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Report Date: 8 Nov 2016


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

Work Order #: 12-16754
Account #: 002190
Purchase Order #: 201610819

Date Received: 3 Nov 2016
Date Sampled: 3 Nov 2016
Temperature at Receipt: 20.8C

PROJECT NAME: EAST RIDGE HS

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A59946	ERHS-1 STEAM KETTLE FAUCET MK-SKF-1	41.8 ug/L	15.0	6 Nov 16	RMB
16-A59947	ERHS-2 KITCHEN SINK-MK-SK-1	2.84 ug/L	15.0	6 Nov 16	RMB
16-A59948	ERHS-3 KITCHEN SINK-MK-SK-2	4.86 ug/L	15.0	6 Nov 16	RMB
16-A59949	ERHS-4 KITCHEN SPRAYER-MK-SP-1	4.83 ug/L	15.0	6 Nov 16	RMB
16-A59950	ERHS-5 KITCHEN SPRAYER-MK-SP-2	4.59 ug/L	15.0	6 Nov 16	RMB
16-A59951	ERHS-6 DISH ROOM SINK DR-SK-1	3.31 ug/L	15.0	6 Nov 16	RMB
16-A59952	ERHS-7 DISH ROOM SINK DR-SK-2	4.72 ug/L	15.0	6 Nov 16	RMB
16-A59953	ERHS-8 DISH ROOM SINK DR-SK-3	2.23 ug/L	15.0	6 Nov 16	RMB
16-A59954	ERHS-9 DISH ROOM SPRAYER DR-SP-1	2.85 ug/L	15.0	6 Nov 16	RMB
16-A59955	ERHS-10 DISH ROOM SPRAYER DR-SP-2	5.07 ug/L	15.0	6 Nov 16	RMB
16-A59956	ERHS-11 DISH ROOM SPRAYER DR-SP-3	5.59 ug/L	15.0	6 Nov 16	RMB

Approved by: 
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

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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