

January 25, 2019

Mr. Eric Hamilton
Edina Public Schools
5701 Normandale Road
Edina, MN 55424

**RE: Lead-in-Water First Draw – Initial Testing
IEA Project #20181108**

Dear Mr. Hamilton:

At the request of Edina Public Schools, IEA collected a total of 151 water samples from identified potable water sources on October 24, 2018, for lead analyses from the following three (3) buildings:

- Concord Elementary
- Highlands Elementary
- South View Middle School

On December 14, 2018, also at the request of Edina Public Schools, IEA collected a total of 11 water samples of kitchen potable water sources in these three (3) buildings. The purpose of this sampling was to confirm the potable kitchen water sources sampled on October 24, 2018, and their lab results which are highlighted grey. The sampling on October 24, 2018, included both potable and non-potable kitchen water sources. The district implemented clearly labeling non-potable fixtures in these kitchens.

The purpose of these samplings is to document lead content in the sampled locations and to compare the district's action level of 20 parts per billion (ppb).

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.

When the lead concentration exceeds the district's action level of 20 parts per billion (ppb) in a specific fixture, the MDH and MDE recommend taking that fixture out of service until lead content is reduced.

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

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9201 West Broadway, #600
Brooklyn Park, MN 55445
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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
601 NW 5th Street, Ste. #4
Brainerd, MN 56401
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
800-233-9513

METHODOLOGY

IEA collected 162 first-draw (unless otherwise noted) samples of approximately 250 milliliters (ml) of water; which included, 151 samples taken from October 24, 2018 plus 11 samples from December 14, 2018. "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. At the time of sampling, current EPA protocol called for flushing identified locations for 2-3 minutes, 8-18 hours prior to sampling. IEA followed these guidelines. 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 sampling results ranged from below the level of detection (<0.5 ppb) to 138 ppb. There is one (1) sample result greater than the district's action level of 20 ppb. This fixture has been taken out of service. See *Table 1: Water Testing Result Exceeding 20 ppb*. The laboratory reports, which include maps of each building with sampling locations, are provided in Appendix A. The October 24, 2018 kitchen potable and non-potable lab results are shaded grey on the lab reports. 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 – October 24, 2018

Sample Number	Building	Sampling Location	Fixture Type	Lead Results (ppb)
18-A58683	South View Middle School	Lounge across from Room 205 Sink	Faucet	138

ppb – parts per billion

There were no results with lead content between 15 ppb and 20 ppb. The MDH recommends schools seek to reduce the amount of lead in drinking water to below 2 ppb. The next highest result is 11.9 ppb for the Sink in Room 16 at Highlands Elementary.

RECOMMENDATIONS

IEA recommends implementing one of the following treatment options for the one (1) fixture with lead content exceeding the district's action level of 20 ppb. The MDH recommends schools seek to reduce the amount of lead in drinking water to as close to zero as possible.

- Remove fixture from service by disconnecting it from the water supply and/or post signs that the water is not potable and notify staff of this.
- Provide bottled water to occupants which meet FDA and state standards. A written statement from the bottled water distributor guaranteeing the standard are met should be filed with the district.
- Replace lead pipes on the property and district portion of the service line.
- Reconfigure plumbing system to redirect the water to bypass any known sources of lead contamination.
- 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.

- Install a drinking water treatment unit certified to NSF/ANSI 53 or NSF/ANSI 42 for lead reduction.
- Conduct flush testing in accordance with MDH, MDE, and EPA guidelines to determine if flushing will reduce lead content. 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. Conduct flush testing in accordance with EPA guidelines, noting that elevated levels can return quickly following flushing depending upon the age and condition of the plumbing. Replacing the plumbing components can address the high levels and ensuring any repair or replacement work is done using only "lead-free" solder. Existing wires in the building could be grounded to lead piping. The electrical current produced may accelerate the corrosion of the pipes. Consider checking the wires and finding an alternative grounding system.

In addition, the MDH recommends labeling water fixtures not included in the sampling program, including: bathroom taps, hose bibbs, laboratory faucets/sinks or custodial closet sinks.

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 water testing at Edina Public Schools. 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 #7396 dated September 27, 2018, regarding lead-in-water sampling at the district 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.



Mary Ferrian, CPSI
EHS Division Manager

Reviewed by:



Karen Weiblen
EHS Project Manager

Enc.

Appendix A

*Laboratory Testing Reports, Maps and
Sampling Locations*



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

www.mvttl.com

MEMBER

ACIL

Report Date: 7 Nov 2018

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

Work Order #: 12-17048
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: CONCORD ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58614	10242018CE-1 KITCHEN SINK #1	6.24 ug/L	15.0	30 Oct 18	RMV
18-A58615	10242018CE-2 KITCHEN SINK #2	0.66 ug/L	15.0	30 Oct 18	RMV
18-A58616	10242018CE-3 KITCHEN SINK #3	1.02 ug/L	15.0	30 Oct 18	RMV
18-A58617	10242018CE-4 KITCHEN SINK #4	2.01 ug/L	15.0	30 Oct 18	RMV
18-A58618	10242018CE-5 KITCHEN SINK #5	2.90 ug/L	15.0	30 Oct 18	RMV
18-A58619	10242018CE-6 KITCHEN SINK #6	2.78 ug/L	15.0	30 Oct 18	RMV
18-A58620	10242018CE-7 KITCHEN SPRAYER #1	0.88 ug/L	15.0	30 Oct 18	RMV
18-A58621	10242018CE-8 KITCHEN SPRAYER #2	6.34 ug/L	15.0	5 Nov 18	RMV

Approved by:

Dan O'Connell

Chemistry Laboratory Managers New Ulm, MN

David Smahel

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 sample quantity

= Due to concentration of other analytes
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CERTIFICATION: MN LAB # 027-015-125 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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PROJECT NAME: CONCORD ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58630	10242018CE-17 ROOM 105 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58631	10242018CE-18 ROOM 105 SINK	0.57 ug/L	15.0	30 Oct 18	RMV
18-A58632	10242018CE-19 ROOM 106 SINK	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58633	10242018CE-20 ROOM 107 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58634	10242018CE-21 ROOM 108 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58635	10242018CE-22 ROOM 111 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58636	10242018CE-23 ROOM 111 SINK	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58637	10242018CE-24	< 0.5 ug/L	15.0	30 Oct 18	RMV

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David Smahel

Chemistry Laboratory Managers New Ulm, MN

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Work Order #: 12-17048
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: CONCORD ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
	HALLWAY OUTSIDE ROOM 112 WBF				
18-A58638	10242018CE-25 ROOM 112 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58639	10242018CE-26 ROOM 113 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58640	10242018CE-27 ROOM 114 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58641	10242018CE-28 ROOM 117 SINK	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58642	10242018CE-29 ROOM 116 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58643	10242018CE-30 ROOM 117 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58644	10242018CE-31 ROOM 118 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV

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Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

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Work Order #: 12-17048
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: CONCORD ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58645	10242018CE-32 ROOM 217 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58646	10242018CE-33 ROOM 218 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58647	10242018CE-34 ROOM 217 SINK	0.86 ug/L	15.0	30 Oct 18	RMV
18-A58648	10242018CE-35 ROOM 216 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58649	10242018CE-36 ROOM 213 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58650	10242018CE-37 ROOM 214 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58651	10242018CE-38 ROOM 212D DF	1.71 ug/L	15.0	30 Oct 18	RMV
18-A58652	10242018CE-39	< 0.5 ug/L	15.0	30 Oct 18	RMV

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Chemistry Laboratory Managers New Ulm, MN

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Report Date: 7 Nov 2018

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9201 W BDWY STE #600
BROOKLYN PARK MN 55445

Work Order #: 12-17048
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: CONCORD ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
	HALLWAY OUTSIDE ROOM 212 WBF				
18-A58653	10242018CE-40 ROOM 209 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58654	10242018CE-41 ROOM 111 SINK	5.09 ug/L	15.0	30 Oct 18	RMV
18-A58655	10242018CE-42 ROOM 207 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58656	10242018CE-43 ROOM 206 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58657	10242018CE-44 ROOM 205 DF	2.01 ug/L	15.0	30 Oct 18	RMV
18-A58658	10242018CE-45 MAIN OFFICE BACK ROOM SINK	2.32 ug/L	15.0	30 Oct 18	RMV
18-A58659	10242018CE-46	1.54 ug/L	15.0	30 Oct 18	RMV

Approved by:

Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

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Report Date: 7 Nov 2018

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

Work Order #: 12-17048
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: CONCORD ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
	ROOM 204 DF				
18-A58660	10242018CE-47 ROOM 201 DF	1.13 ug/L	15.0	30 Oct 18	RMV
18-A58661	10242018CE-48 HALLWAY OUTSIDE MAIN OFFICE WBF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58662	10242018CE-49 ROOM 200 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58663	10242018CE-50 ROOM 200 SINK	1.04 ug/L	15.0	30 Oct 18	RMV

Approved by:

Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

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Report Date: 31 Dec 2018

HEIDI SOLBERG

IEA/BROOKLYN PARK

9201 W BDWY STE #600

BROOKLYN PARK MN 55445

Work Order #: 12-19767

Account #: 002190

Purchase Order #: 201811085

Date Received: 20 Dec 2018

Temperature at Receipt: 18.1 C

PROJECT NAME: CONCORD ELEMENTARY

PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A70822	12142018CE-1 WEST-KS	< 0.5 ug/L	15.0	27 Dec 18	RMV
18-A70823	12142018CE-2 EAST-KS	0.57 ug/L	15.0	27 Dec 18	RMV

Approved by:

Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

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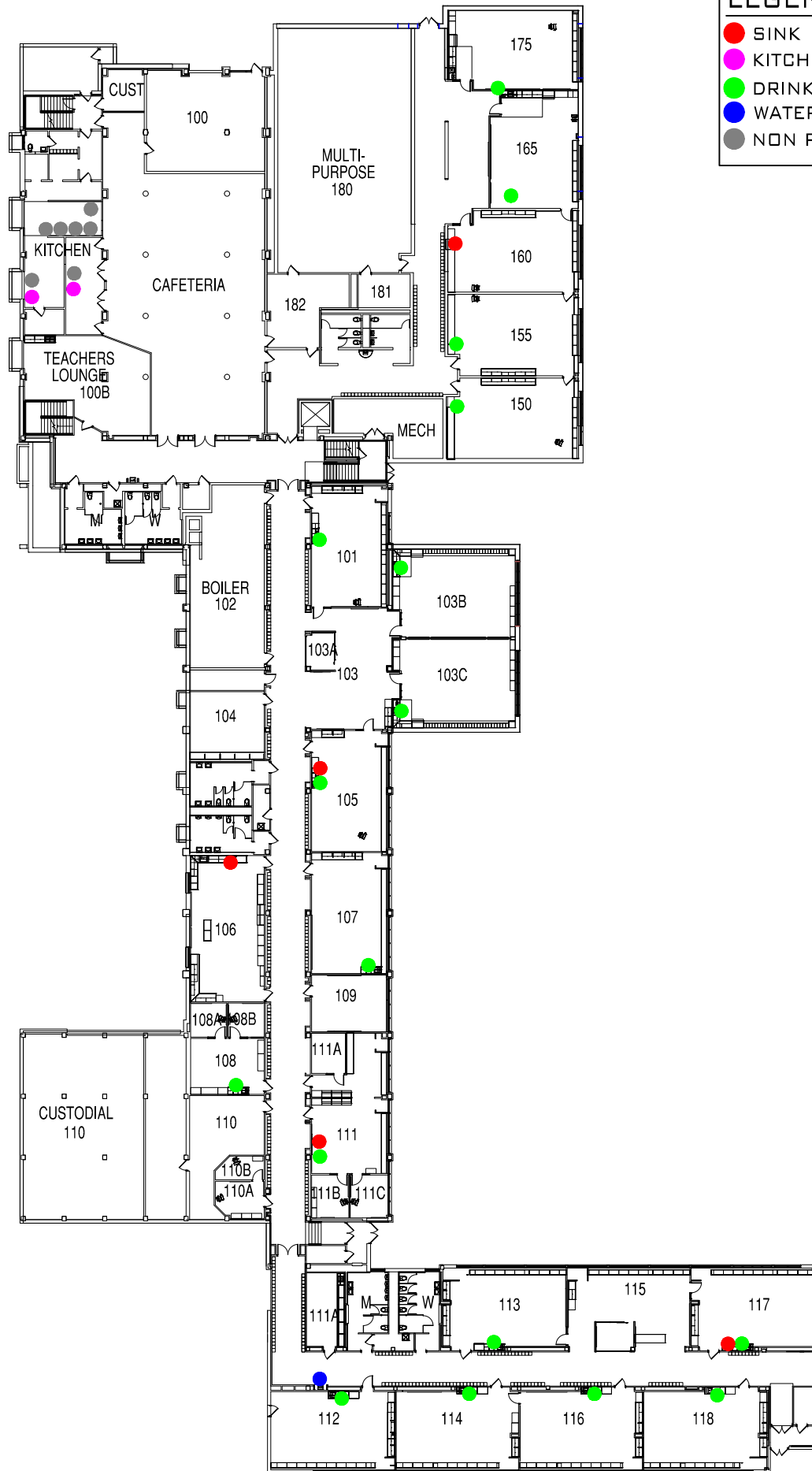
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LEGEND

- SINK
- KITCHEN SINK
- DRINKING FOUNTAIN
- WATER BOTTLE FILLER
- NON POTABLE

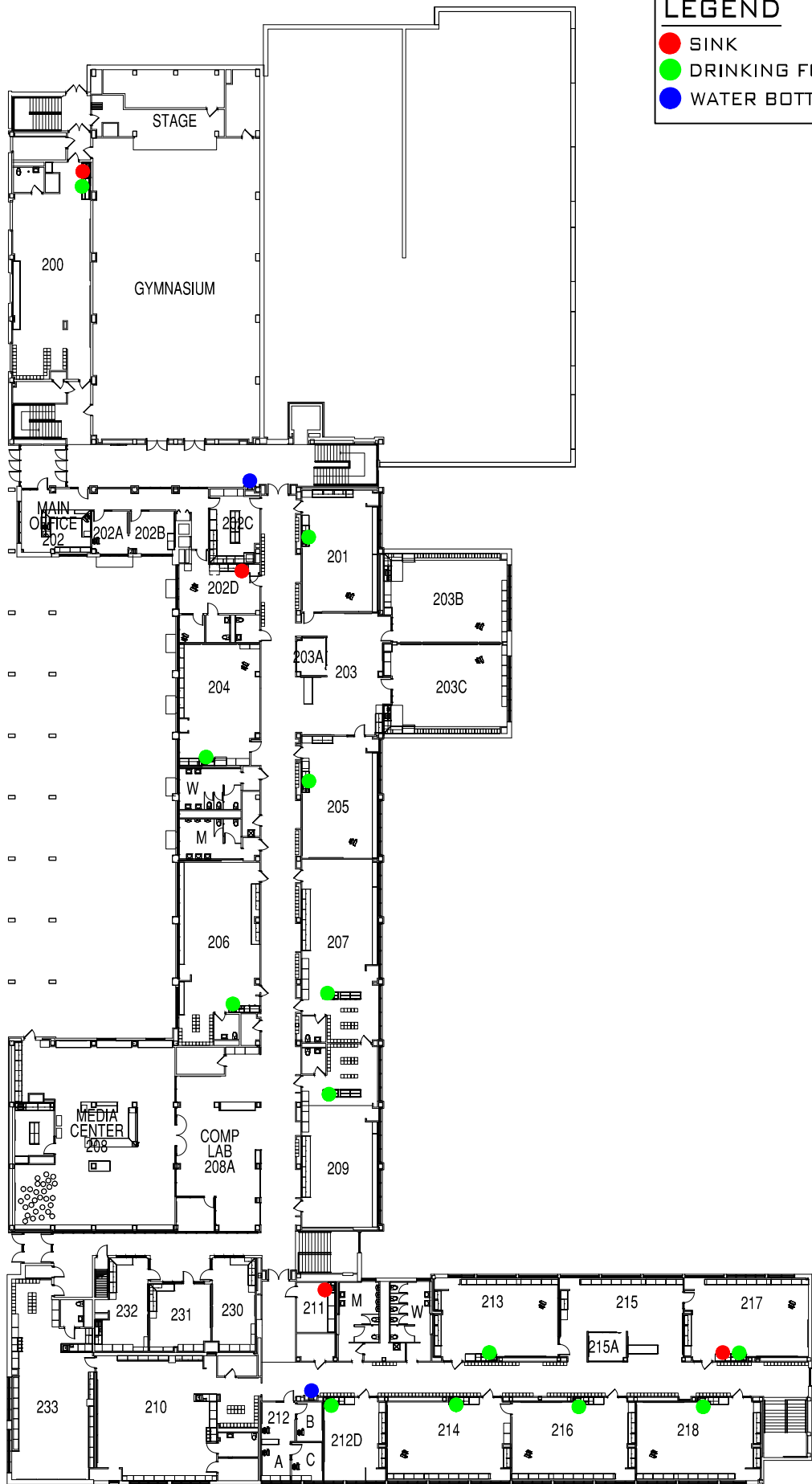


LEGEND

SINK

DRINKING FOUNTAIN

WATER BOTTLE FILLER





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Report Date: 9 Nov 2018

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

Work Order #: 12-17050
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: HIGHLANDS ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58714	10242018HE-1 KITCHEN SINK #1	1.80 ug/L	15.0	30 Oct 18	RMV
18-A58715	10242018HE-2 KITCHEN SINK #2	1.00 ug/L	15.0	30 Oct 18	RMV
18-A58716	10242018HE-3 KITCHEN SINK #3	1.48 ug/L	15.0	30 Oct 18	RMV
18-A58717	10242018HE-4 KITCHEN SINK #4	4.64 ug/L	15.0	30 Oct 18	RMV
18-A58718	10242018HE-5 HANDWASH SINK BY KITCHEN SINK #1	3.19 ug/L	15.0	30 Oct 18	RMV
18-A58719	10242018HE-6 HANDWASH SINK BY KITCHEN SINK #4	12.4 ug/L	15.0	30 Oct 18	RMV
18-A58720	10242018HE-7 KITCHEN SPRAYER #1	0.85 ug/L	15.0	30 Oct 18	RMV
18-A58721	10242018HE-8	2.62 ug/L	15.0	30 Oct 18	RMV

Approved by:

Dan O'Connell

Chemistry Laboratory Managers New Ulm, MN

David Smahel

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Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: HIGHLANDS ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
KITCHEN SPRAYER #2					
18-A58722	10242018HE-9 HANDWASH SINK WITH EYEWASH STATION	2.39 ug/L	15.0	30 Oct 18	RMV
18-A58723	10242018HE-10 STEAM KETTLE	8.41 @ug/L	15.0	7 Nov 18	RMV
18-A58724	10242018HE-11 ROOM 11 DF	1.94 ug/L	15.0	30 Oct 18	RMV
18-A58725	10242018HE-12 HALLWAY OUTSIDE MAIN OFFICE WC #1	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58726	10242018HE-13 HALLWAY OUTSIDE MAIN OFFICE WC #2	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58727	10242018HE-14 MAIN OFFICE BACK ROOM SINK	1.67 ug/L	15.0	30 Oct 18	RMV

Approved by:

Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

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CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040



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ACIL

Report Date: 9 Nov 2018

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

Work Order #: 12-17050
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: HIGHLANDS ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58728	10242018HE-15 ROOM 01 SINK	1.33 ug/L	15.0	30 Oct 18	RMV
18-A58729	10242018HE-16 ROOM 01 DF	1.83 ug/L	15.0	30 Oct 18	RMV
18-A58730	10242018HE-17 ROOM 02 DF	1.35 ug/L	15.0	30 Oct 18	RMV
18-A58731	10242018HE-18 ROOM 08 SINK	2.24 ug/L	15.0	30 Oct 18	RMV
18-A58732	10242018HE-19 ROOM 04 DF	0.92 ug/L	15.0	30 Oct 18	RMV
18-A58733	10242018HE-20 ROOM 04 SINK	1.64 ug/L	15.0	30 Oct 18	RMV
18-A58734	10242018HE-21 ROOM 06 SINK	1.96 ug/L	15.0	30 Oct 18	RMV
18-A58735	10242018HE-22	0.80 ug/L	15.0	30 Oct 18	RMV

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Chemistry Laboratory Managers New Ulm, MN

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9201 W BDWY STE #600
BROOKLYN PARK MN 55445

Work Order #: 12-17050
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: HIGHLANDS ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
	ROOM 06 DF				
18-A58736	10242018HE-23 HALLWAY PAST ROOM 05 WC	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58737	10242018HE-24 ROOM 07 DF	0.88 ug/L	15.0	30 Oct 18	RMV
18-A58738	10242018HE-25 ROOM 08 DF	1.22 ug/L	15.0	30 Oct 18	RMV
18-A58739	10242018HE-26 ROOM 09 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58740	10242018HE-27 ROOM 11 SINK	4.01 ug/L	15.0	30 Oct 18	RMV
18-A58741	10242018HE-28 ROOM 13 DF	1.67 ug/L	15.0	30 Oct 18	RMV
18-A58742	10242018HE-29 ROOM 14 SINK	0.67 ug/L	15.0	30 Oct 18	RMV

Approved by:

Dan O'Connell

Chemistry Laboratory Managers New Ulm, MN

David Smahel

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Work Order #: 12-17050
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: HIGHLANDS ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58743	10242018HE-30 ROOM 14 DF	1.55 ug/L	15.0	30 Oct 18	RMV
18-A58744	10242018HE-31 HALLWAY ACROSS FROM ROOM 15 DF	1.28 ug/L	15.0	30 Oct 18	RMV
18-A58745	10242018HE-32 ROOM 15 DF	1.08 ug/L	15.0	30 Oct 18	RMV
18-A58746	10242018HE-33 ROOM 16 SINK	11.9 ug/L	15.0	30 Oct 18	RMV
18-A58747	10242018HE-34 ROOM 16 DF	1.09 ug/L	15.0	30 Oct 18	RMV
18-A58748	10242018HE-35 ROOM 17 DF	0.73 ug/L	15.0	30 Oct 18	RMV
18-A58749	10242018HE-36 ROOM 18 DF	2.09 ug/L	15.0	30 Oct 18	RMV
18-A58750	10242018HE-37	5.38 ug/L	15.0	30 Oct 18	RMV

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Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

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Temperature at Receipt: 18.6C

PROJECT NAME: HIGHLANDS ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
	ROOM 19 DF				
18-A58751	10242018HE-38 ROOM 20 SINK	4.33 ug/L	15.0	30 Oct 18	RMV
18-A58752	10242018HE-39 HALLWAY ACROSS FROM ROOM 21 WC	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58753	10242018HE-40 ROOM 20 DF	1.64 ug/L	15.0	30 Oct 18	RMV
18-A58754	10242018HE-41 ROOM 22 DF	1.55 ug/L	15.0	30 Oct 18	RMV
18-A58755	10242018HE-42 ROOM 24 SINK	4.39 ug/L	15.0	30 Oct 18	RMV
18-A58756	10242018HE-43 ROOM 24 DF	1.58 ug/L	15.0	30 Oct 18	RMV
18-A58757	10242018HE-44 ROOM 22 SINK	5.57 ug/L	15.0	30 Oct 18	RMV

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Chemistry Laboratory Managers New Ulm, MN

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9201 W BDWY STE #600
BROOKLYN PARK MN 55445

Work Order #: 12-17050
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: HIGHLANDS ELEM.
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58758	10242018HE-45 ROOM 02 SINK	1.74 ug/L	15.0	30 Oct 18	RMV
18-A58759	10242018HE-46 OUTSIDE OF ROOM 27 WC	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58760	10242018HE-47 ROOM 31 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58761	10242018HE-48 ROOM 32 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58762	10242018HE-49 ROOM 31 SINK	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58763	10242018HE-50 ROOM 29 DF	2.39 ug/L	15.0	30 Oct 18	RMV

Approved by:

Dan O'Connell

David Smahel

Chemistry Laboratory Managers New Ulm, MN

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Report Date: 31 Dec 2018

HEIDI SOLBERG

IEA/BROOKLYN PARK

9201 W BDWY STE #600

BROOKLYN PARK MN 55445

Work Order #: 12-19768

Account #: 002190

Purchase Order #: 201811085

Date Received: 20 Dec 2018

Temperature at Receipt: 18.1 C

PROJECT NAME: HIGHLANDS ELEMENTARY

PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A70824	12142018HE-1 NORTHEAST-KS	1.18 ug/L	15.0	27 Dec 18	RMV
18-A70825	12142018HE-2 SOUTHEAST-KS	2.29 ug/L	15.0	27 Dec 18	RMV
18-A70826	12142018HE-3 WEST-KS	2.14 ug/L	15.0	27 Dec 18	RMV
18-A70827	12142018HE-4 WEST-SPR	1.67 ug/L	15.0	27 Dec 18	RMV
18-A70828	12142018HE-5 NORTH WALL-SK	4.27 ug/L	15.0	27 Dec 18	RMV

Approved by:

Dan O'Connell

David Smahel

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LEGEND

SINK

WATER COOLER

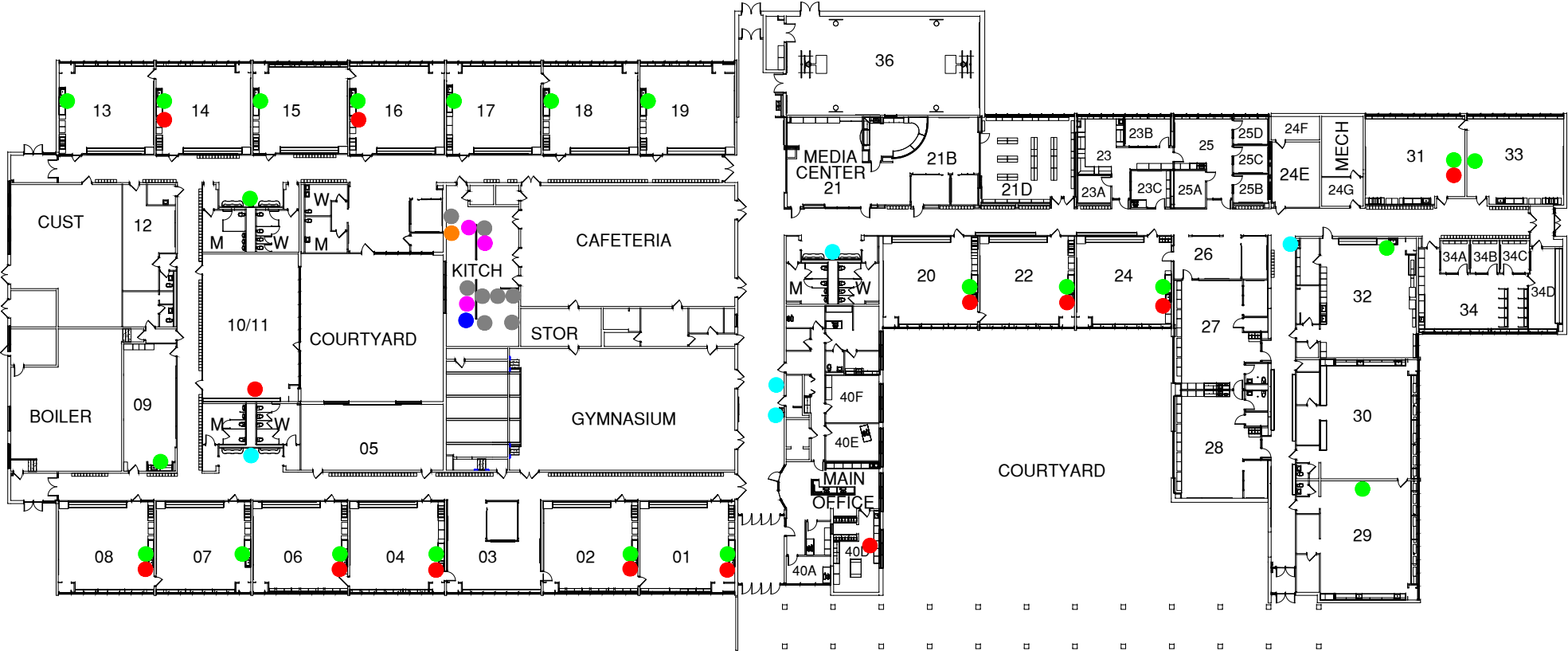
KITCHEN SINK

DRINKING FOUNTAIN

KITCHEN SPRAYER

STEAM KETTLE

NON POTABLE





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Report Date: 9 Nov 2018

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

Work Order #: 12-17049
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: SOUTH VIEW MS
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58664	10242018SVMS-1 KITCHEN KS #1	3.73 ug/L	15.0	30 Oct 18	RMV
18-A58665	10242018SVMS-2 KITCHEN KS #2 SPRAYER	0.77 ug/L	15.0	30 Oct 18	RMV
18-A58666	10242018SVMS-3 KITCHEN KS #3	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58667	10242018SVMS-4 KITCHEN KS #4	2.06 ug/L	15.0	30 Oct 18	RMV
18-A58668	10242018SVMS-5 KITCHEN KS #5	3.16 ug/L	15.0	30 Oct 18	RMV
18-A58669	10242018SVMS-6 KITCHEN KS #6	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58670	10242018SVMS-7 KITCHEN KS #7	0.74 ug/L	15.0	30 Oct 18	RMV
18-A58671	10242018SVMS-8 KITCHEN KS #8	2.18 ug/L	15.0	30 Oct 18	RMV

Approved by:

Dan O'Connell

Chemistry Laboratory Managers New Ulm, MN

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PROJECT NAME: SOUTH VIEW MS
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58672	10242018SVMS-9 KITCHEN KS #9	4.91 ug/L	15.0	30 Oct 18	RMV
18-A58673	10242018SVMS-10 ROOM NEXT TO CUST SNK	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58674	10242018SVMS-11 HALLWAY ACROSS FROM ROOM 114 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58675	10242018SVMS-12 HALLWAY ACROSS FROM ROOM 126 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58676	10242018SVMS-13 HALLWAY NEXT TO GYM 4 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58677	10242018SVMS-14 ROOM 143 SNK BREAK AREA	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58678	10242018SVMS-15 ROOM 143 SNK	< 0.5 ug/L	15.0	30 Oct 18	RMV

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Chemistry Laboratory Managers New Ulm, MN

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PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58679	10242018SVMS-16 HALLWAY OUTSIDE 112 WC TALL	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58680	10242018SVMS-17 HALLWAY OUTSIDE 112 WC SHORT	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58681	10242018SVMS-18 HALLWAY NEXT TO ROOM 201 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58682	10242018SVMS-19 ROOM 201 SNK	2.51 ug/L	15.0	30 Oct 18	RMV
18-A58683	10242018SVMS-20 <i>Taken out of service.</i> LOUNGE ACROSS FROM ROOM 205 SNK	138 ~ ug/L	15.0	7 Nov 18	RMV
~Sample diluted due to result above calibration or linear range.					
18-A58684	10242018SVMS-21	2.32 ug/L	15.0	30 Oct 18	RMV

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David Smahel

Chemistry Laboratory Managers New Ulm, MN

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PROJECT NAME: SOUTH VIEW MS

PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
	ROOM 207 #1 SNK				
18-A58685	10242018SVMS-22 ROOM 207 #2 SNK	1.75 ug/L	15.0	30 Oct 18	RMV
18-A58686	10242018SVMS-23 ROOM 207 #3 SNK	1.17 ug/L	15.0	30 Oct 18	RMV
18-A58687	10242018SVMS-24 ROOM 207 #4 SNK	2.44 ug/L	15.0	30 Oct 18	RMV
18-A58688	10242018SVMS-25 ROOM 207 #5 SNK	0.89 ug/L	15.0	30 Oct 18	RMV
18-A58689	10242018SVMS-26 ROOM 207 #6 SNK	2.24 ug/L	15.0	30 Oct 18	RMV
18-A58690	10242018SVMS-27 ROOM 207 #7 SNK	2.17 ug/L	15.0	30 Oct 18	RMV
18-A58691	10242018SVMS-28 HALLWAY ACROSS FROM ROOMS 211/209 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV

Approved by:

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Chemistry Laboratory Managers New Ulm, MN

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PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58692	10242018SVMS-29 HALLWAY BY ROOM 208 WBF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58693	10242018SVMS-30 HALLWAY BY ROOM 208 WC	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58694	10242018SVMS-31 HALLWAY ACROSS ROOM 307 WC	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58695	10242018SVMS-32 ROOM 259 SNK	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58696	10242018SVMS-33 ROOM 259C SNK	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58697	10242018SVMS-34 HALLWAY BETWEEN ROOMS 258/262 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV

Approved by:

Dan O'Connell

Chemistry Laboratory Managers New Ulm, MN

David Smahel

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 sample quantity

= Due to concentration of other analytes
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CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040



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

www.mvttl.com

MEMBER

ACIL

Report Date: 9 Nov 2018

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

Work Order #: 12-17049
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: SOUTH VIEW MS
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58698	10242018SVMS-35 HALLWAY OUTSIDE OF GYM 1 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58699	10242018SVMS-36 HALLWAY OUTSIDE OF POOL 283 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58700	10242018SVMS-37 HALLWAY OUTSIDE OF POOL 283 WB	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58701	10242018SVMS-38 HALLWAY ACROSS FROM ROOM 311 WBF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58702	10242018SVMS-39 HALLWAY OUTSIDE OF 289/291 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58703	10242018SVMS-40 HALLWAY ACROSS FROM ROOM 307 WBF	< 0.5 ug/L	15.0	30 Oct 18	RMV

Approved by:

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58704	10242018SVMS-41 ROOM 297 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58705	10242018SVMS-42 HALLWAY OUTSIDE OF ROOM 226 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58706	10242018SVMS-43 HALLWAY ACROSS FROM ROOM 302 WBF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58707	10242018SVMS-44 HALLWAY NEXT TO 261 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58708	10242018SVMS-45 SMALL ROOM WITHIN MEDIA CENTER SNK	1.03 ug/L	15.0	30 Oct 18	RMV
18-A58709	10242018SVMS-46 HALLWAY ACROSS FROM ROOM 302 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV

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Chemistry Laboratory Managers New Ulm, MN

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MEMBER

ACIL

Report Date: 9 Nov 2018

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

Work Order #: 12-17049
Account #: 002190
Purchase Order #: 201811085

Date Received: 24 Oct 2018
Date Sampled: 24 Oct 2018
Temperature at Receipt: 18.6C

PROJECT NAME: SOUTH VIEW MS
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A58710	10242018SVMS-47 HALLWAY ACROSS FROM ROOM 311 DF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58711	10242018SVMS-48 HALLWAY BETWEEN ROOMS 318/316 WC TALL	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58712	10242018SVMS-49 HALLWAY BETWEEN ROOMS 318/316 WBF	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58713	10242018SVMS-50 HALLWAY BETWEEN ROOMS 318/316 WC SHORT	< 0.5 ug/L	15.0	30 Oct 18	RMV
18-A58764	10242018SVMS-51 ROOM 295 SNK	1.14 ug/L	15.0	30 Oct 18	RMV

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MEMBER

ACIL

Report Date: 31 Dec 2018

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

Work Order #: 12-19770
Account #: 002190
Purchase Order #: 201811085

Date Received: 20 Dec 2018
Temperature at Receipt: 18.1 C

PROJECT NAME: SOUTHVIEW MS
PROJECT NUMBER: 201811085

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
18-A70832	12142018SVMS-1 NORTHEAST-KS	< 0.5 ug/L	15.0	27 Dec 18	RMV
18-A70833	12142018SVMS-2 FOOD PREP CENTER-KS	< 0.5 ug/L	15.0	27 Dec 18	RMV
18-A70834	12142018SVMS-3 SERVING AREA-KS	0.53 ug/L	15.0	27 Dec 18	RMV
18-A70835	12142018SVMS-4 KITCHEN NORTHEAST-SPR	< 0.5 ug/L	15.0	27 Dec 18	RMV

Approved by:

Dan O'Connell

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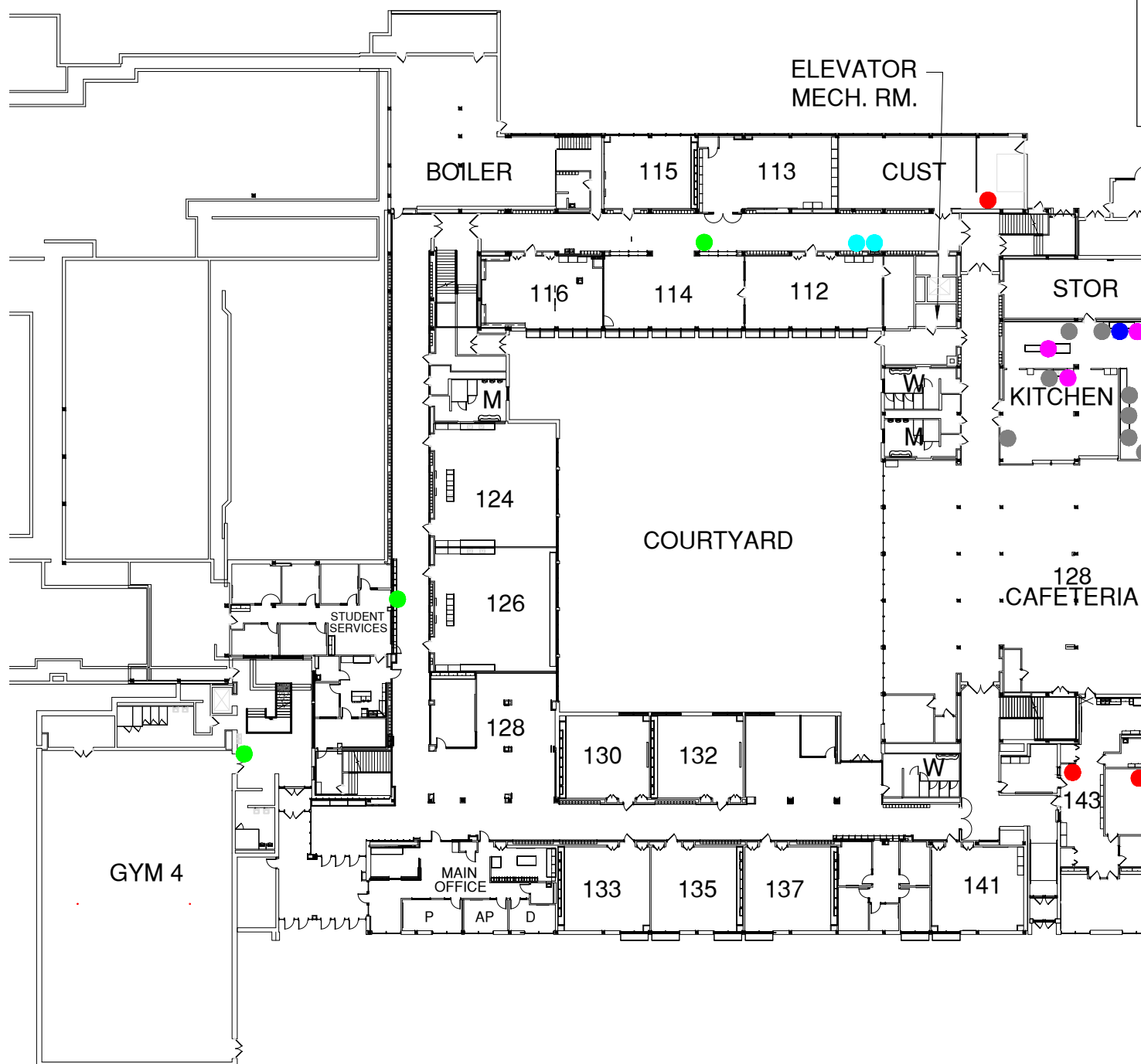
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CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040

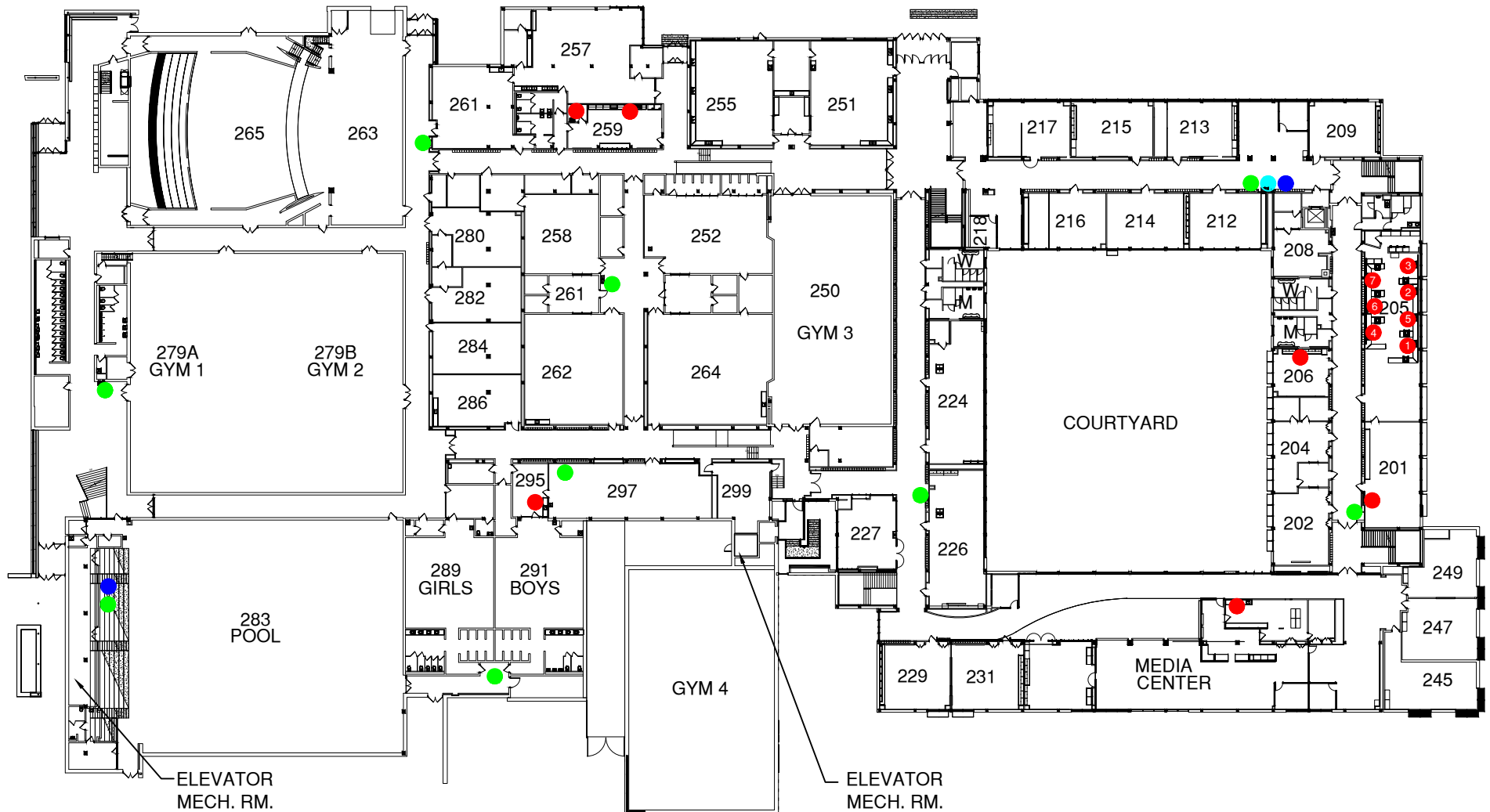
LEGEND

- SINK
- WATER COOLER
- DRINKING FOUNTAIN
- KITCHEN SINK
- NON POTABLE
- KITCHEN SPRAYER



LEGEND

- SINK
- WATER COOLER
- DRINKING FOUNTAIN
- WATER BOTTLE FILLER



LEGEND

- WATER COOLER
- DRINKING FOUNTAIN
- WATER BOTTLE FILLER

