



4105 SE International Way
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Milwaukie, OR 97222

T 503.387.3251
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June 7, 2022

Mr. John W. Gilbert
Facilities Manager
Falls City School District #57
101 N. Main Street
Falls City, OR 97344

Via email to: john.gilbert@fallscityschools.org

RE: Lead Water Testing Report
Falls City High School Building (Facility #101)
111 N. Main Street
Falls City, Oregon 97344

TRC Project: 462109

Mr. Gilbert:

At your request, TRC Environmental Corporation (TRC) performed lead in water testing at the Falls City School District High School Building located at 111 N. Main Street, in Falls City, Oregon.

Testing Procedures

Water testing was performed following the United States Environmental Protection Agency (USEPA) guidance document "3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance." The 3Ts document provides an action limit of 20 parts per billion (ppb) for lead.

Samples were collected from cold water outlets on the interior of the building(s), including drinking fountains, classroom sinks, restroom sinks, and eye wash stations. Any outlets that were broken or not in use at the time sampling was performed were documented as such and were not sampled.

Prior to conducting the water testing, flushing occurred at each outlet to be sampled 8 to 18 hours prior to the sampling event. A map of each school was annotated with the sample locations for each outlet and each sample number and location which were recorded on a Drinking Water Sample Data Sheet & Chain of Custody. During flushing, the water lines for each identified fixture within the building were purged by running each outlet for 1 minute. After flushing each outlet, the building was closed and locked until TRC returned to perform the water sampling the following morning.

Samples were collected using plastic 250 mL unpreserved bottles. The unpreserved bottles were preserved by the laboratory after receipt per the analytical method. During sample collection, each bottle was marked with the date the sample was collected followed by the school identification code, sample number, and fixtured identification description (Ex. 101-001-KF). Sampling at each water outlet was conducted 8 to 18 hours after flushing was completed, prior to being used. Water was sampled without touching the mouth of the container to the faucet filling the bottle to approximately one inch from the top. One sample was collected from each of the

cold water outlets being tested. The sample collected as a first draw sample, which is the first flow of water from the outlet into the bottle and represents the water standing in the fixture that would initially be consumed. Upon completion of a sampling event, the sample bottles were packaged and the Water Sample Data Sheet & Chain of Custody Record was signed and delivered with the samples to an independent third-party, accredited laboratory.

Laboratory and Analytical Method

Analysis for lead was performed by Edge Analytical, Inc., an Oregon drinking water accredited laboratory, using the EPA Method 200.8 for analysis.

Samples Collected and Results

TRC and the District identified a total of twelve (12) water fixtures prior to conducting the flushing and sampling activities. Sampling was conducted on October 1, 2021. Of the twelve (12) first draw samples collected, two (2) had results above the action level of greater than 15 parts per billion (ppb) for lead. The first draw results (A sample) which were at or greater than 15 ppb for lead are noted in the table below. A complete list of the analytical results noting all rooms and outlets sampled can be found in Appendix A, and a copy of the sample location map can be found in Appendix B with photo logs provided in Appendix C.

Sample #	Location and Fixture Description	Analyte	Result	EPA Limit	FCSD Action Limit
101-001-KF	Cafeteria Sink	Lead	84.5 ppb	20 ppb	>15 ppb
101-009-CF	Room 21 – Sink Faucet	Lead	49.0 ppb	20 ppb	>15 ppb

ppb = parts per billion

EPA = Environmental Protection Agency

FCSD = Falls City School District

Recommendations

TRC recommended that the District suspend the use of the water at the two (2) fixtures listed in the table above and take action to lower the concentrations for lead to those fixtures by replacing the associated outlet and supply lines from the wall to the outlet. In the interim, as recommended by the USEPA short-term control measures, such as flushing the piping in the system at the fixtures noted above every morning before the facility opens, can be conducted to remove water that has been standing in the interior pipes and or fixtures. Additionally, TRC recommended that those fixtures be suspended from use until after the associated outlet, supply line from the wall to the outlet and any necessary plumbing lines are replaced. Once the replacements are made, TRC recommended the District have the water from the new outlets re-sampled for lead to determine if the outlet, supply line and plumbing line replacement (as applicable) has resolved the issue prior to allowing these faucets to be used without the short-term control measures noted above.

Follow-up Samples Collected and Results

Two (2) of the total twelve (12) water fixtures were determined to be above the action level at the time sampling was conducted and are represented in the table above. The District elected not to analyze the B samples, and instead proceeded directly to replacing the fixtures at these locations. TRC performed follow-up sampling of the two (2) previously elevated fixtures within this school building once the fixtures were replaced. Follow-up sampling was conducted on May 18, 2022. Both samples were below the action level during the May 18th, 2022 sampling event.

Conclusions

Based on the fixture replacement activities completed by District and follow-up sample results indicating all sample locations at this facility being below the action level, TRC offers no further recommendations at this time.

TRC appreciates the opportunity to provide you with environmental consulting services. We look forward to working with you on future endeavors. If you have any questions or comments concerning this report, please call TRC at (503) 387-3251.

Sincerely,

TRC Environmental Corporation



Chloe Hudson
Industrial Hygienist



Ron Landolt
NW Region BSI Practice Manager

Appendix A – Analytical Results



Burlington, WA Corporate Laboratory (a)
1620 S Walnut St - Burlington, WA 98233 - 800.755.9295 • 360.757.1400

Bellingham, WA Microbiology (b)
805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR Microbiology/Chemistry (c)
9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802

Corvallis, OR Microbiology/Chemistry (d)
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR Microbiology (e)
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

LEAD & COPPER RULE REPORT

Client Name: TRC - Milwaukie
4120 SE International Way
Suite A110
Milwaukie, OR 97222

Reference Number: **21-37439**

Project: 462109 - Falls City High
School 101

System Name:
System ID Number:
DWP Source Number:
Multiple Sources:
Sample Type:
Sample Purpose: Investigative or Other
County:

Analyst: bj
Date Received: 10/1/2021
Report Date: 10/8/2021
Approved By: anp
Authorized by:


Thanh B Phan
Lab Manager, Portland

Lab Number	Date Collected	Site / Location	EPA #	Analyte Name	Result	Units	AL	RL	METHOD	Lab	Comments
21_72114	10/1/2021	1012021-101-001-KF - Cafeteria	1030	LEAD	84.5	ppb	15	1	200.8	4072	
21_72115	10/1/2021	1012021-101-002-BF - Ground Floor Men's Restroom	1030	LEAD	2.8	ppb	15	1	200.8	4072	
21_72116	10/1/2021	1012021-101-003-DW - 1st Floor Hall	1030	LEAD	1.9	ppb	15	1	200.8	4072	
21_72117	10/1/2021	1012021-101-004-CF - Room 2A	1030	LEAD	ND	ppb	15	1	200.8	4072	
21_72118	10/1/2021	1012021-101-005-BF - 1st Floor Girl's Restroom	1030	LEAD	ND	ppb	15	1	200.8	4072	
21_72119	10/1/2021	1012021-101-006-BF - 1st Floor Girl's Restroom	1030	LEAD	ND	ppb	15	1	200.8	4072	
21_72120	10/1/2021	1012021-101-007-CF - Room 21	1030	LEAD	6.3	ppb	15	1	200.8	4072	
21_72121	10/1/2021	1012021-101-008-CF - Room 21	1030	LEAD	9.2	ppb	15	1	200.8	4072	
21_72122	10/1/2021	1012021-101-009-CF - Room 21	1030	LEAD	49.0	ppb	15	1	200.8	4072	
21_72123	10/1/2021	1012021-101-010-CF - Room 21	1030	LEAD	3.7	ppb	15	1	200.8	4072	
21_72124	10/1/2021	1012021-101-011-WB - Third Floor Hall	1030	LEAD	ND	ppb	15	1	200.8	4072	
21_72125	10/1/2021	1012021-101-012-DW - Third Floor Hall	1030	LEAD	ND	ppb	15	1	200.8	4072	

NOTES:

RL (Reporting Level): indicates the minimum reporting level.

AL Federal Action Levels are 0.015 mg/L (15 ppb) for Lead and 1.3 mg/L (1300 ppb) for Copper under the Lead and Copper Rule for public water systems. A blank MCL value indicates a level is not currently established.

ND (Not Detected): indicates that the compound was not detected above the Reporting Level (RL).

These test results meet all the requirements of NELAP, unless otherwise stated in writing, and relate only to these samples. If you have any questions concerning this report contact Thanh B Phan at the above phone number.



WATER SAMPLE CHAIN OF CUSTODY FORM

Client: Falls City School District	Project Number: 462109	21-37439 72114 - 72125	Sampling Technician(s): Chloe Hudson
Project Name: Falls City High School - Drinking Water Testing Falls City School District 57	School Info: Falls City High School 101		Requested TAT: Standard

MICROBIAL SAMPLE INFORMATION


Sample Date / Time	Sample Identification	Fixture ID	Sample Location	Volume / Area Collected	Laboratory Analysis Requested
10/01/2021 / 7:05 am	1012021-101-001-KF	101-001-KF	Cafeteria	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:07 am	1012021-101-002-BF	101-002-BF	Ground Floor Men's Restroom	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:08 am	1012021-101-003-DW	101-003-DW	1st Floor Hall	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:10 am	1012021-101-004-CF	101-004-CF	Room 2A	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:11 am	1012021-101-005-BF	101-005-BF	1st Floor Girl's Restroom	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:12 am	1012021-101-006-BF	101-006-BF	1st Floor Girl's Restroom	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:14 am	1012021-101-007-CF	101-007-CF	Room 21	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:15 am	1012021-101-008-CF	101-008-CF	Room 21	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:16 am	1012021-101-009-CF	101-009-CF	Room 21	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:16 am	1012021-101-010-CF	101-010-CF	Room 21	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:18 am	1012021-101-011-WB	101-011-WB	Third Floor Hall	500	EPA 200.5 / EPA 200.8
10/01/2021 / 7:19 am	1012021-101-012-DW	101-012-DW	Third Floor Hall	500	EPA 200.5 / EPA 200.8

Edge 10/4/21 0820

40 20.5

Special Instruction to Laboratory:
10 Day TAT

CHAIN OF CUSTODY INFORMATION AND LABORATORY INFORMATION

Relinquished By:	Date and Time	Received By:	Date and Time
1. (Print): Chloe Hudson		AMJ	10-1-21
(Sign): 	10/01/2021 7:20 am America/Los_Angeles	17.1°C	1050
II. (Print):			
(Sign):			
Email Results to: rlandolt@trccompanies.com	Lab Comments: ACIDIFIED 10-1-21 1100 AMJ		



Portland, OR *Microbiology/Chemistry (c)*
9725 SW Commerce Cr Ste A2 - Wilsonville, OR 97070 - 503.682.7802

Corvallis, OR *Microbiology/Chemistry (d)*
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

LEAD & COPPER RULE REPORT

Client Name: TRC - Milwaukie
4120 SE International Way
Suite A110
Milwaukie, OR 97222

Reference Number: **22-16639**

Project: Falls City High School 101
- 462109

System Name:
System ID Number:
DWP Source Number:
Multiple Sources:
Sample Type:
Sample Purpose: Investigative or Other
County:

Analyst: bj
Date Received: 5/18/2022
Report Date: 5/23/2022
Approved By: anp
Authorized by:

Chandph

Thanh B Phan
Lab Manager, Portland

[illegible]

NOTES:

RL (Reporting Level): indicates the minimum reporting level.

AL: Federal Action Levels are 0.015 mg/L (15 ppb) for Lead and 1.3 mg/L (1300 ppb) for Copper under the Lead and Copper Rule for public water systems. A blank MCL value indicates a level is not currently established.

ND (Not Detected): indicates that the compound was not detected above the Reporting Level (RL).

These test results meet all the requirements of NELAP, unless otherwise stated in writing, and relate only to these samples. If you have any questions concerning this report contact Thanh B Phan at the above phone number.



4105 SE International Way 505 Milwaukie OR
97222

WATER SAMPLE CHAIN OF CUSTODY FORM

Client: Falls City School District		Project Number: 462109		Sampling Technician(s): Chloe Hudson	
Project Name: Falls City High School - Drinking Water Testing Falls City School District 57		School Info: Falls City High School 101		Requested TAT: Standard	
MICROBIAL SAMPLE INFORMATION					
Sample Date / Time	Sample Identification	Fixture ID	Sample Location	Volume / Area Collected	Laboratory Analysis Requested
05/18/2022 / 7:04 am	101-013KF22A	101-013KF	Cafeteria (101-01 Resampling)	500	EPA 200.5 / EPA 200.8
05/18/2022 / 6:59 am	101-014CF22A	101-014CF	Room 21 (101-09 Resampling)	500	EPA 200.5 / EPA 200.8
Special Instruction to Laboratory: 10 Day TAT					
CHAIN OF CUSTODY INFORMATION AND LABORATORY INFORMATION					
Relinquished By:		Date and Time		Received By:	
1. (Print): Chloe Hudson		5/18/22 10:04:00 7:20 am America/Los_Angeles		5/18/22 0930	
. (Sign): <i>Chloe</i>				22-16639 31933 - 31934	
II. (Print):				18°C	
(Sign):					
Email Results to: rlandolt@trccompanies.com		Lab Comments:			

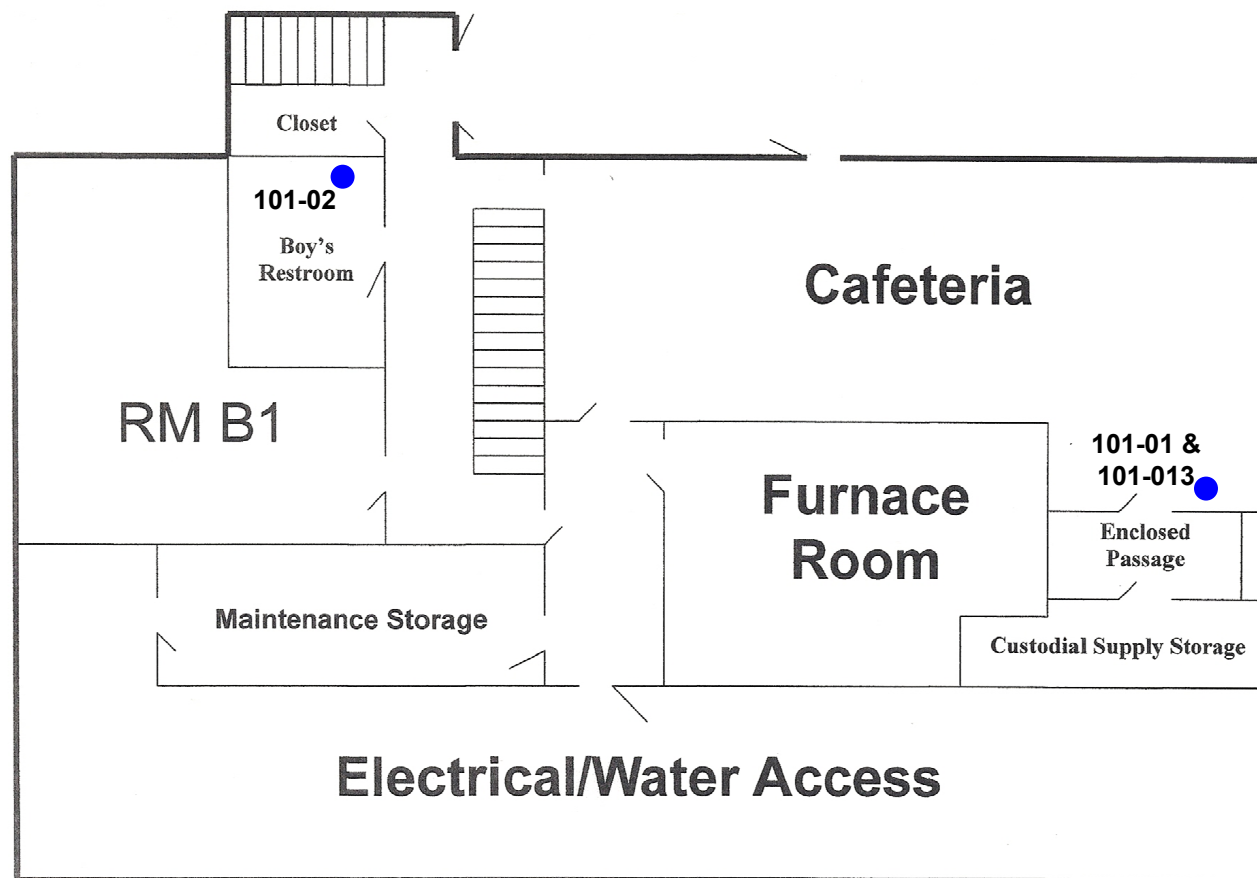
UPS 5/19/22 0944

REC8

AD 28

Appendix B – Sample Location Map(s)

High School



First Floor

LEGEND

● — Drinking Water Sample Location

LEAD WATER TESTING SURVEY REPORT SAMPLE LOCATION MAP

FALLS CITY SCHOOL DISTRICT – HIGH SCHOOL BUILDING
111 NORTH MAIN STREET
FALLS CITY, OREGON 97344

TRC Project No.: 462109

Figure: 1

Drawn by: CH

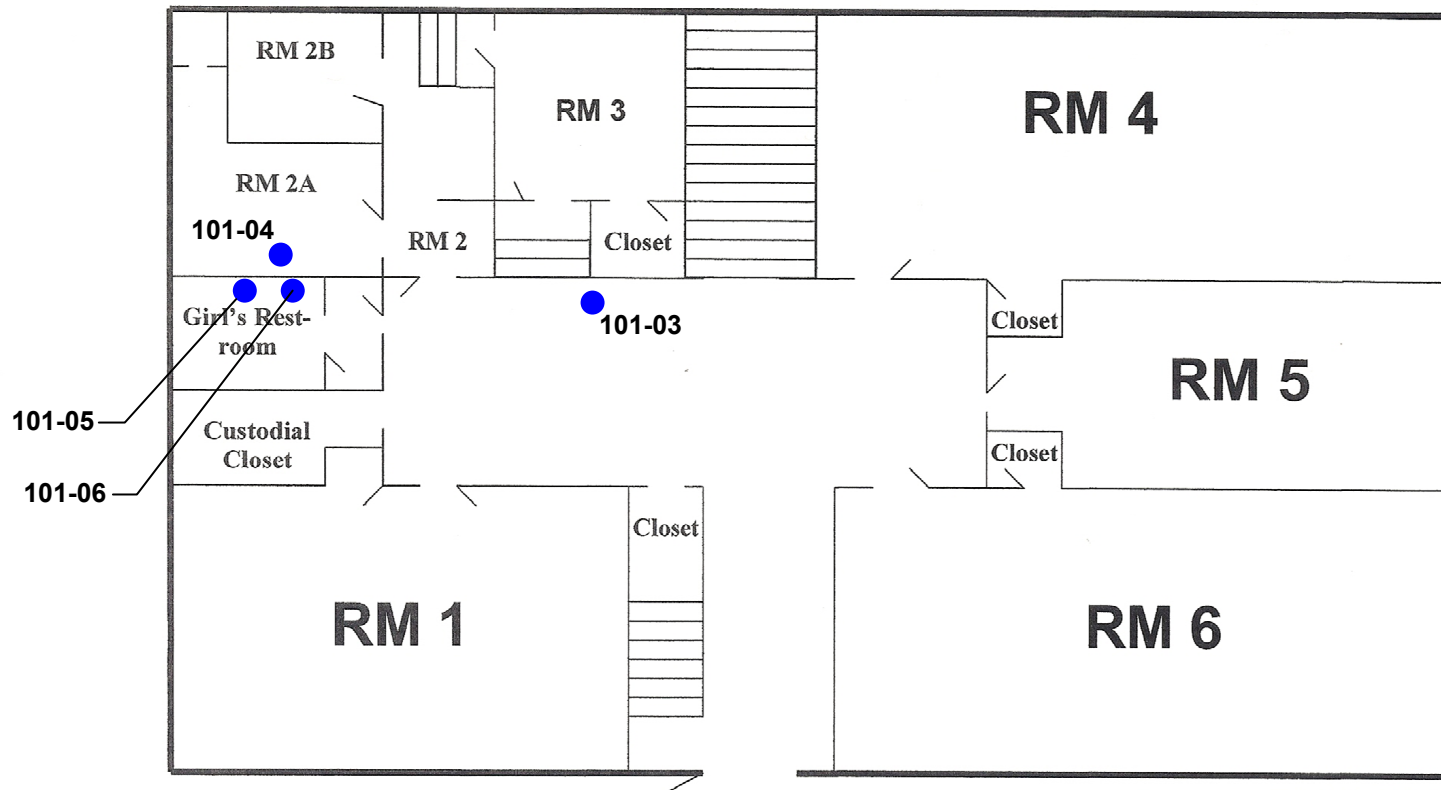
Checked by: RL

Date: June 2022



4105 SE International Way, Suite 505
Milwaukie, Oregon 97222
Phone: (503) 387-3251 Fax: (503) 908-1318

High School



Second Floor

LEGEND

● — Drinking Water Sample Location

LEAD WATER TESTING SURVEY REPORT SAMPLE LOCATION MAP

FALLS CITY SCHOOL DISTRICT – HIGH SCHOOL BUILDING
111 NORTH MAIN STREET
FALLS CITY, OREGON 97344

TRC Project No.: 462109

Figure: 2

Drawn by: CH

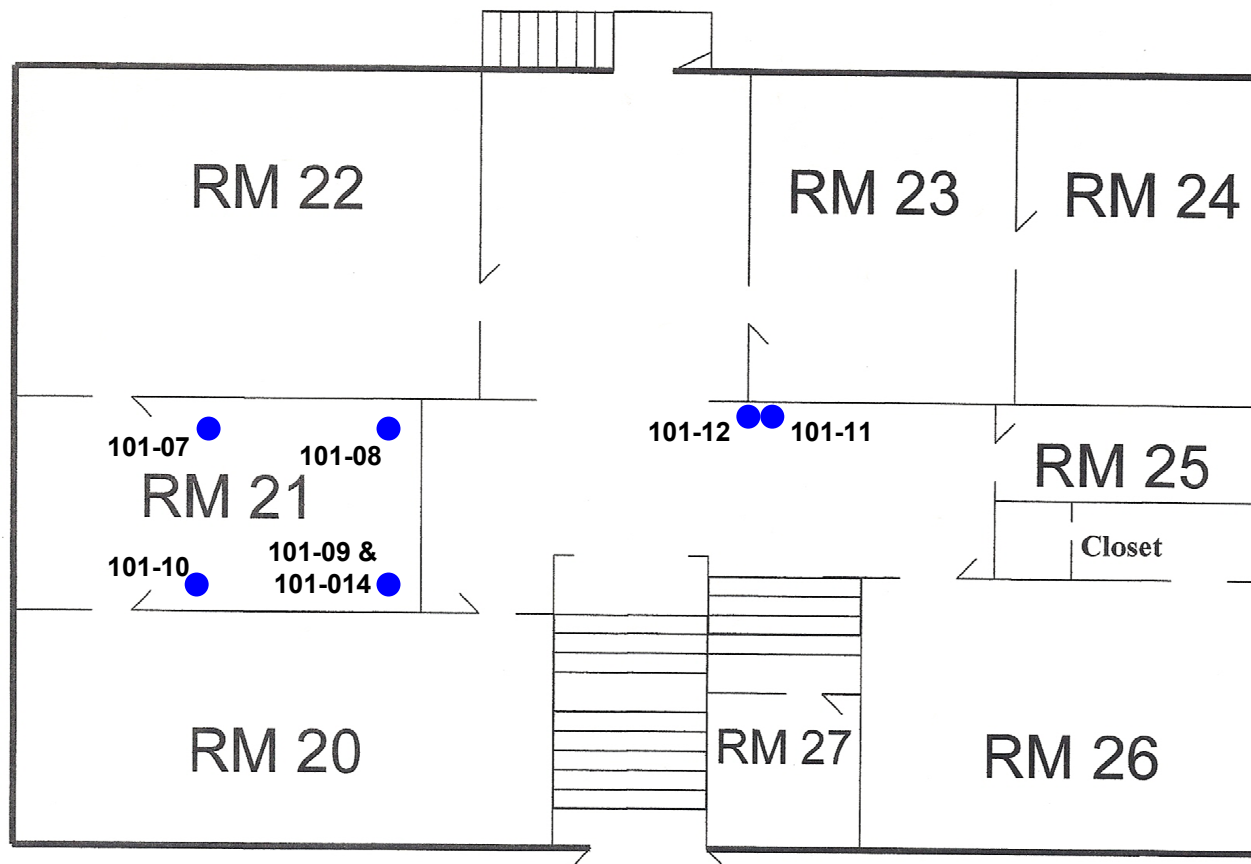
Checked by: RL

Date: June 2022



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High School



Third Floor

LEGEND

● — Drinking Water Sample Location

LEAD WATER TESTING SURVEY REPORT SAMPLE LOCATION MAP

FALLS CITY SCHOOL DISTRICT – HIGH SCHOOL BUILDING
111 NORTH MAIN STREET
FALLS CITY, OREGON 97344

TRC Project No.: 462109

Figure: 3

Drawn by: CH

Checked by: RL

Date: June 2022



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Milwaukie, Oregon 97222
Phone: (503) 387-3251 Fax: (503) 908-1318

Appendix C – Photo Pages

FALLS CITY HIGH SCHOOL – DRINKING WATER TESTING
111 NORTH MAIN STREET, FALLS CITY, OR 97344

Institution Name: Falls City School District
Building ID Number: 101



Sample Date: 10/01/21
Sample Time: 07:05:00
Fixture Code: KF
Fixture ID: 101-001-KF
Sample ID: 1012021-101-001-KF
Result Above Reporting Limit (ppb): Yes
Result (ppb): 84.5
Above Action Level: Yes



Sample Date: 10/01/21
Sample Time: 07:07:00
Fixture Code: BF
Fixture ID: 101-002-BF
Sample ID: 1012021-101-002-BF
Result Above Reporting Limit (ppb): Yes
Result (ppb): 2.8
Above Action Level: No



FALLS CITY HIGH SCHOOL – DRINKING WATER TESTING
111 NORTH MAIN STREET, FALLS CITY, OR 97344

Sample Date: 10/01/21
Sample Time: 07:08:00
Fixture Code: DW
Fixture ID: 101-003-DW
Sample ID: 1012021-101-003-DW
Result Above Reporting Limit (ppb): Yes
Result (ppb): 1.9
Above Action Level: No



Sample Date: 10/01/21
Sample Time: 07:10:00
Fixture Code: CF
Fixture ID: 101-004-CF
Sample ID: 1012021-101-004-CF
Result Above Reporting Limit (ppb): No
Result (ppb): ND
Above Action Level: No



Sample Date: 10/01/21
Sample Time: 07:11:00
Fixture Code: BF
Fixture ID: 101-005-BF
Sample ID: 1012021-101-005-BF
Result Above Reporting Limit (ppb): No
Result (ppb): ND
Above Action Level: No



FALLS CITY HIGH SCHOOL – DRINKING WATER TESTING
111 NORTH MAIN STREET, FALLS CITY, OR 97344

Sample Date: 10/01/21
Sample Time: 07:12:00
Fixture Code: BF
Fixture ID: 101-006-BF
Sample ID: 1012021-101-006-BF
Result Above Reporting Limit (ppb): No
Result (ppb): ND
Above Action Level: No



Sample Date: 10/01/21
Sample Time: 07:14:00
Fixture Code: CF
Fixture ID: 101-007-CF
Sample ID: 1012021-101-007-CF
Result Above Reporting Limit (ppb): Yes
Result (ppb): 6.3
Above Action Level: No



Sample Date: 10/01/21
Sample Time: 07:15:00
Fixture Code: CF
Fixture ID: 101-008-CF
Sample ID: 1012021-101-008-CF
Result Above Reporting Limit (ppb): Yes
Result (ppb): 9.2
Above Action Level: No



FALLS CITY HIGH SCHOOL – DRINKING WATER TESTING
111 NORTH MAIN STREET, FALLS CITY, OR 97344

Sample Date: 10/01/21
Sample Time: 07:16:00
Fixture Code: CF
Fixture ID: 101-009-CF
Sample ID: 1012021-101-009-CF
Result Above Reporting Limit (ppb): Yes
Result (ppb): 49.0
Above Action Level: Yes



Sample Date: 10/01/21
Sample Time: 07:16:00
Fixture Code: CF
Fixture ID: 101-010-CF
Sample ID: 1012021-101-010-CF
Result Above Reporting Limit (ppb): Yes
Result (ppb): 3.7
Above Action Level: No



Sample Date: 10/01/21
Sample Time: 07:18:00
Fixture Code: WB
Fixture ID: 101-011-WB
Sample ID: 1012021-101-011-WB
Result Above Reporting Limit (ppb): No
Result (ppb): ND
Above Action Level: No



FALLS CITY HIGH SCHOOL – DRINKING WATER TESTING
111 NORTH MAIN STREET, FALLS CITY, OR 97344

Sample Date: 10/01/21
Sample Time: 07:19:00
Fixture Code: DW
Fixture ID: 101-012-DW
Sample ID: 1012021-101-012-DW
Result Above Reporting Limit (ppb): No
Result (ppb): ND
Above Action Level: No



Sample Date: 05/18/22
Sample Time: 07:04:00
Fixture Code: KF
Fixture ID: 101-013KF
Sample ID: 101-013KF22A (follow-up sample)
Result Above Reporting Limit (ppb): Yes
Result (ppb): 11.8
Above Action Level: No



Sample Date: 05/18/22
Sample Time: 06:59:00
Fixture Code: CF
Fixture ID: 101-014CF
Sample ID: 101-014CF22A (follow-up sample)
Result Above Reporting Limit (ppb): No
Result (ppb): ND
Above Action Level: No

