LEAD-IN-WATER INSPECTION REPORT

November 30th, 2022

EIS Job No. 2022074

Prepared For:

Monroe School District
C/O Bill Crowson, Superintendent
365 North 5th Street
Monroe, OR 97456
Benton County

Prepared By:

Environmental Inspection Services
Matthew C. Spear, Environmental Professional
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Aurora, Oregon 97002
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ENVIRONMENTAL INSPECTION SERVICES

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1.0 EXECUTIVE SUMMARY

Lead-in-Water Inspection Report

November 30th, 2022

Sampling Location(s):

(Monroe Highschool & District Office)
365 North 5th Street
Monroe, OR 97456
Benton County

(Monroe Grade School)
600 Dragon Drive
Monroe, OR 97456
Benton County

Monroe School District
C/O Bill Crowson

Dear Mr. Bill Crowson,

Environmental Inspection Services conducted a comprehensive lead-in-water retest episode at the subject Monroe School District (MSD) buildings on Friday, November 18th, 2022. The drinking water samples were received by Alexin Analytical Laboratory on Friday, November 18th, 2022, and analytical test results were reported to EIS on Tuesday, November 29th, 2022. No elevated lead in drinking water considerations was noted for the various retested faucets and fountains in the subject buildings.

The EPA Maximum Contaminant Limit (MCL) for lead in public drinking water Systems is 15 parts per billion (ppb). The EPA action limit of 15 parts per billion (ppb) was utilized as the action limit for this water sampling and testing episode. The previous initial first draw drinking water sampling episode was conducted immediately following the stagnation of eight (8) hours the day after an active school day. This retest sampling episode was conducted on the day of an active school day, with a minimum flush time of 30 seconds per each sampled fixture. Plastic and sterile 250 ml. bottles were utilized for the drinking water sample collection.

A total of six (6) discreet water samples numbered between No. 007 and No. 023 were collected from the points of consumption throughout the subject buildings including cold water faucets and cold-water fountains positioned throughout the entire buildings. No drinking water samples collected from the school building exceeded the EPA Action limit for lead in drinking water of 15 parts per billion (ppb). The lead-in-water concentration test results varied between one (1) to eight (8) parts per billion (ppb).

A unique sample location code was assigned for each drinking water outlet sample. The attached alphanumeric sequence code was assigned for each sample. Example - the sampling code for sample No. 098 was as follows: 20500003BF09822A - (A Water sample collected from district 2050, Building No. 0003, bathroom faucet (BF), sample No. 098, year: 2022, first test: A.)

In the opinion of EIS, we recommend that all fixtures that were initially tested over the 15-ppb action limit be replaced, regardless of their re-tested results. Thank you for this opportunity to be of service. If there are questions concerning the lead-in-water analytical test results, contact EIS at (503) 680-6398.

Respectfully submitted,
Matthew C. Spear
Environmental Professional

APPENDIXES

APPENDIX 1.0

LEAD ANALYTICAL TEST RESULTS

Alexin Analytical LABORATORIES, INC.
Professional Laboratory Services
13035 SW Pacific Hwy
Tigard, OR 97223
Tel.: (503) 639-9311 Fax: (503) 684-1588

ANALYSIS REPORT

Reported: 11/29/2022
Received: 11/18/2022
Sampled By: Matthew C. Spear
Work Order: 2322018

CLIENT
Environmental Inspection Services
Attn: Matthew Spear
430 N. 1st Street
Carlton OR, 97111
Phone: (503) 680-6398

Project: Monroe Retest
Project # : -
Sample Type : Grab

Sampling Location: Monroe H/S

Lab Number

	Code	Method	Result	Units	MRL	EPA MCL*	Analysis Date/ Time
2322018-01	**Sample Name:** 18990043- 007CF22B **Sampled:** 11/18/22 11:00 **Sample Composition:** Raw Single						**Matrix:** Drinking Water
†*Lead*	1030	EPA 200.9	6	ppb	1	15 ppb	11/22/22 15:54
2322018-02	**Sample Name:** 18990043- 009BF22B **Sampled:** 11/18/22 11:05 **Sample Composition:** Raw Single						**Matrix:** Drinking Water
†*Lead*	1030	EPA 200.9	2	ppb	1	15 ppb	11/22/22 15:54
2322018-03	**Sample Name:** 18990043- 010BF22B **Sampled:** 11/18/22 11:10 **Sample Composition:** Raw Single						**Matrix:** Drinking Water
†*Lead*	1030	EPA 200.9	2	ppb	1	15 ppb	11/22/22 15:54
2322018-04	**Sample Name:** 18990043- 013SF22B **Sampled:** 11/18/22 11:15 **Sample Composition:** Raw Single						**Matrix:** Drinking Water
†*Lead*	1030	EPA 200.9	8	ppb	1	15 ppb	11/22/22 15:54
2322018-05	**Sample Name:** 18990043- 015BF22B **Sampled:** 11/18/22 11:20 **Sample Composition:** Raw Single						**Matrix:** Drinking Water
†*Lead*	1030	EPA 200.9	5	ppb	1	15 ppb	11/22/22 15:54
2322018-06	**Sample Name:** 18990043- 023BF22B **Sampled:** 11/18/22 11:30 **Sample Composition:** Raw Single						**Matrix:** Drinking Water
†*Lead*	1030	EPA 200.9	1	ppb	1	15 ppb	11/22/22 15:54

ND = None detected at the MRL **MRL** = Minimum Reporting Limit **MCL** = Maximum Contamination Limit
†All procedures for this analysis are in accordance with NELAP standards.

***** The EPA MCL for Lead in Public Drinking Water Systems is 15 ppb; this is a maximum contamination level for lead in samples, this is not an acceptance level for health based exposure.

Note: Please make sure to send your results to the appropriate agency; Alexin Analytical does not forward these results to any program or person other than the above listed client. It is your responsibilty to make sure these results get sent to whichever agency, city, or organization has requested them if these results are for compliance purposes.

Approved by: _____
Adriana Gonzalez-Gray
Laboratory Director

APPENDIX 2.0

SAMPLE TABLE

CLIENT	PROJECT	PROJECTNUM	LabName	SAMPLENAME	LABSAMPID
Environmental Inspection Services	Lead School	-	Alexin Analytical Laboratories, Inc.	18990043- 007CF22B	2322018-01
Environmental Inspection Services	Lead School	-	Alexin Analytical Laboratories, Inc.	18990043- 009BF22B	2322018-02
Environmental Inspection Services	Lead School	-	Alexin Analytical Laboratories, Inc.	18990043- 010BF22B	2322018-03
Environmental Inspection Services	Lead School	-	Alexin Analytical Laboratories, Inc.	18990043- 013SF22B	2322018-04
Environmental Inspection Services	Lead School	-	Alexin Analytical Laboratories, Inc.	18990043- 015BF22B	2322018-05
Environmental Inspection Services	Lead School	-	Alexin Analytical Laboratories, Inc.	18990043- 023BF22B	2322018-06

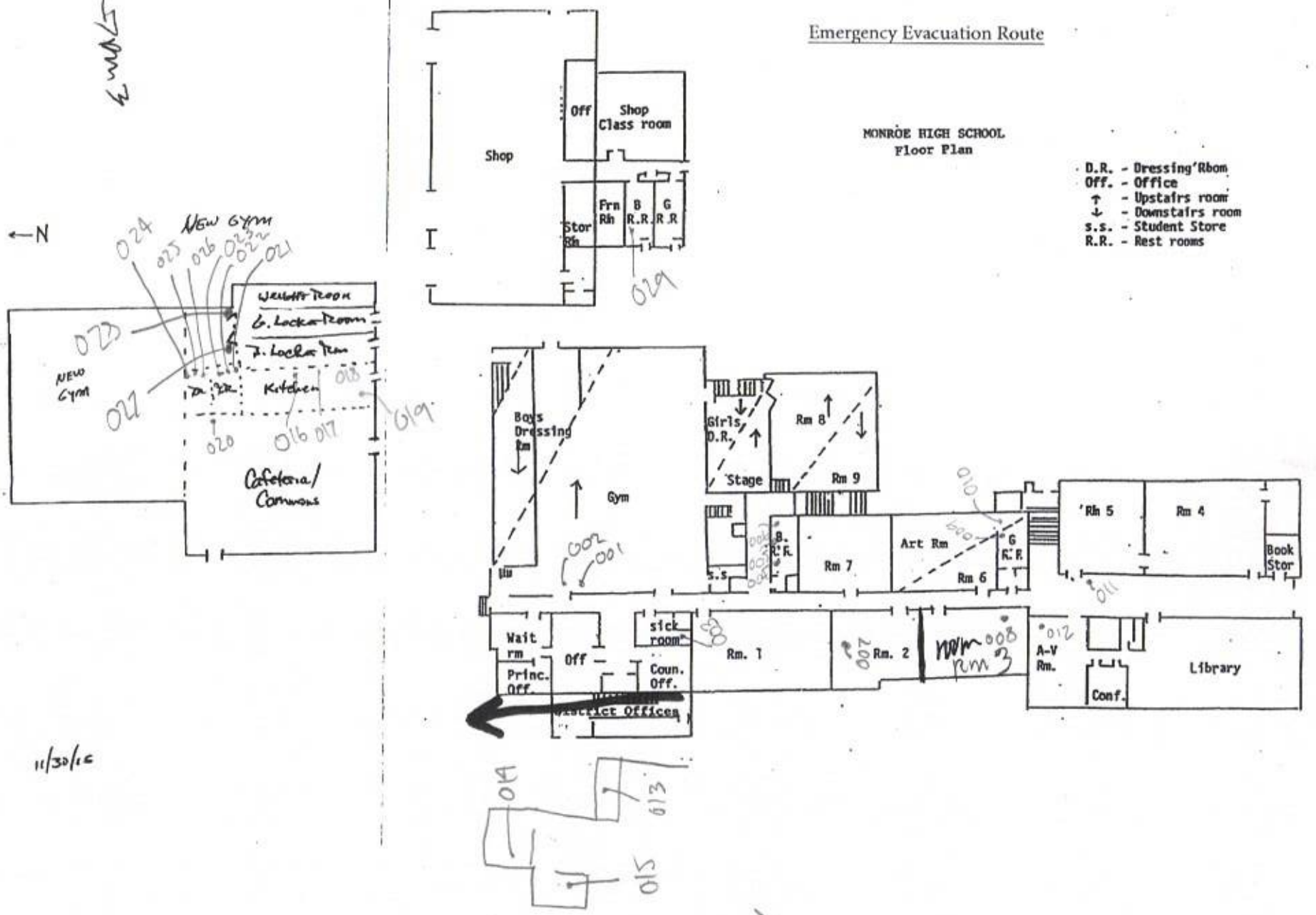
APPENDIX 3.0

SAMPLE LOCATIONS

Emergency Evacuation Route

MONROE HIGH SCHOOL
Floor Plan

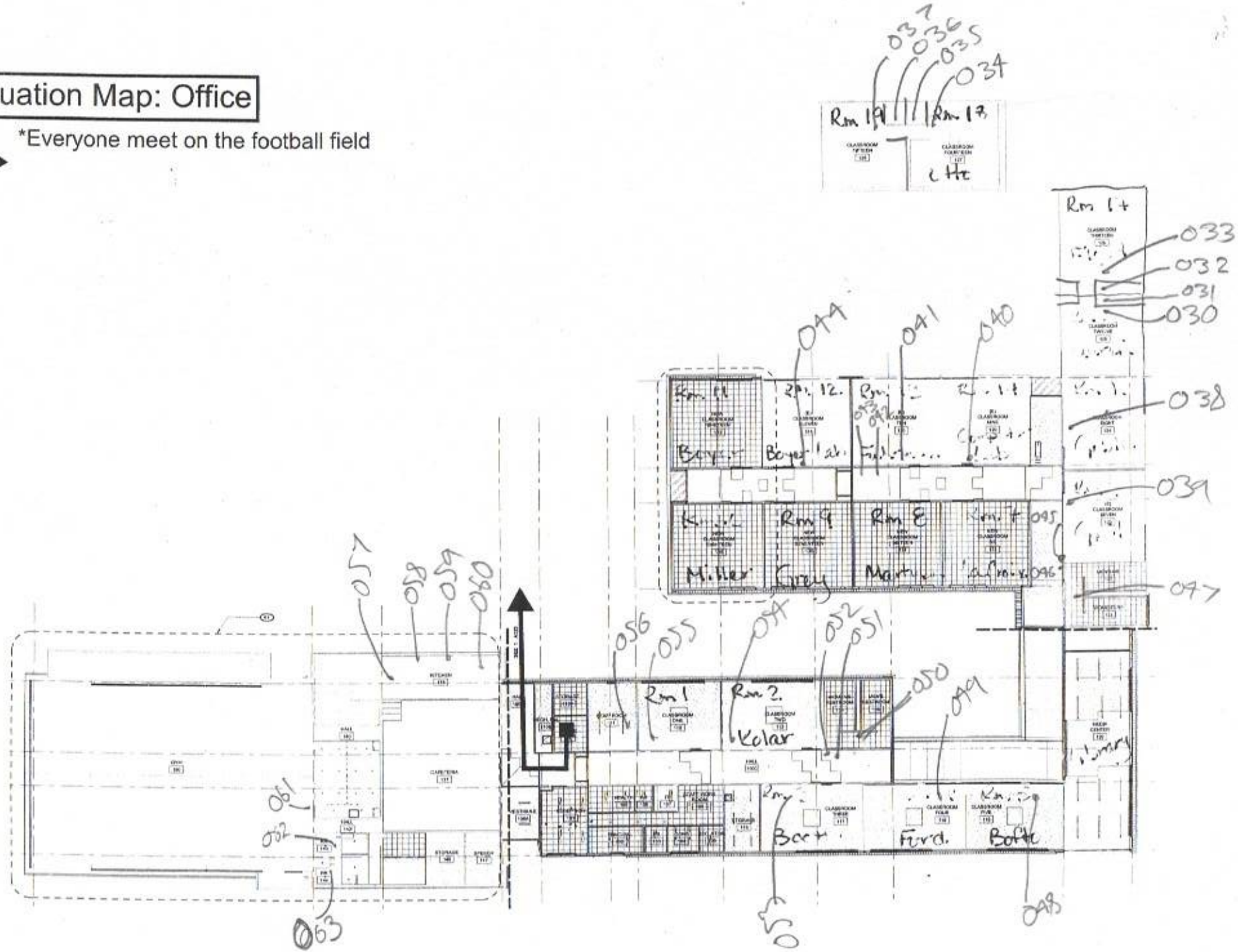
D.R. - Dressing'Rbom
Off. - Office
↑ - Upstairs room
↓ - Downstairs room
s.s. - Student Store
R.R. - Rest rooms



upstairs (D.O.)

Evacuation Map: Office

*Everyone meet on the football field



APPENDIX 4.0

LEAD-IN-WATER REGULATION

OREGON ADMINISTRATIVE RULES
OREGON HEALTH AUTHORITY, PUBLIC HEALTH DIVISON
CHAPTER 333

DIVISION 61

DRINKING WATER

333-061-0400
Reducing Lead in School Drinking Water

(1) For the purposes of this rule, the following definitions apply:
  (a) "School" means a school district, education service district, or public charter school.
  (b) "Tap":
  (A) Means any plumbing fixture in a building or on property owned or leased by a school where students or staff are present on a regular basis and where water is used for drinking or food preparation.
  (B) Does not include any of the following classes of plumbing fixtures:
    (i) Shower heads;
    (ii) Pipes used to convey water to systems for building heat;
    (iii) Dedicated eye wash stations and emergency showers;
    (iv) Fixtures in areas with no student access used exclusively for building sanitation purposes by staff;
    (v) Fixtures used exclusively for irrigation, unless it is reasonable to believe that students or staff will use water from that fixture for drinking; and
    (vi) Fixtures in science and technical education classrooms that provide education to grades 6 through 12 exclusively where the fixtures:
      (I) Have signs indicating they are not sources of drinking water; and
      (II) Are not intended to be used for drinking or food preparation as part of the curriculum.

(2) Initial testing.
  (a) Schools must test for lead in the water from each tap at least once between January 1, 2016 and June 30, 2020, or prior to occupancy for taps added after these dates. Initial testing does not need to be repeated if:
    (A) Testing was conducted and mitigation completed before November 1, 2018 according to EPA's *3Ts for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance from October 2006*, adopted by reference*;* or

(B) Testing was conducted and mitigation completed on or after November 1, 2018 according to EPA's *3Ts for Reducing Lead in Drinking Water in Schools and Childcare Facilities, October 2018,* adopted by reference.

(b) Samples must be collected "first draw," before any water is used from that tap on the day it is tested.

(3) On-going testing. Schools must collect a first draw sample as described in subsection (2)(b) of this rule and EPA's *3Ts for Reducing Lead in Drinking Water in Schools and Childcare Facilities, October 2018,* from each tap at least once every six years starting on July 1, 2020 according to OAR 581-022-2223, unless the following exemption applies:

(a) The tap was installed after January 4, 2014 and meets the lead-free standard of no more than 0.25 percent lead by weight and the piping feeding the tap is a material other than copper or was installed after January 4, 2014 and the solder and flux meets the lead-free standard of no more than 0.2 percent lead; and

(b) The tap was tested as required in section (2) and no more than 1 part per billion (ppb) of lead was detected.

(4) All samples must be collected using cold water and must meet the following criteria:

(a) Sample bottles must be 250 milliliters (mL) in volume.

(b) Sample bottles must be assigned a unique identification number and the following information about the sample must be recorded:

(A) The date and time of sample collection;

(B) The name of the person that collected the sample; and

(C) The location or a description of the tap from which the sample is collected.

(c) Samples must be collected on a day when school was in session the previous day.

(d) Samples must be analyzed by a laboratory accredited for lead analysis in drinking water by the Oregon Laboratory Accreditation Program according to OAR chapter 333, division 64.

(5) If a test result from a sample shows 15 or more parts per billion (ppb) of lead:

(a) A school must prevent access to the tap as soon as possible after receiving the sample test result and in no case more than 48 hours after receiving the test results; and

(b) A school must prevent access to the tap until testing and mitigation is completed according to section (6) of this rule; or

(c) If the tap is primarily used for sanitation purposes, such as restroom sinks, access may continue as long as clear signage is posted to notify people that the tap is not to be used for drinking or food preparation until mitigation is complete. Mitigation must be completed within 30 days unless an alternate schedule is approved by the Department of Education.

(6) Following receipt of results that show a tap has 15 or more ppb of lead, a school must:

(a) Collect a flushed sample from that tap. This sample must meet all the criteria specified in section (4) of this rule and be collected after water has flowed from the tap for 30 seconds as described in Step 2 of Module 5 of EPA's *3Ts for Reducing Lead in Drinking Water in Schools and Childcare Facilities, October 2018*; and

(b) Complete an appropriate permanent mitigation in accordance with Module 6 of EPA's *3Ts for Reducing Lead in Drinking Water in Schools and Childcare Facilities, October 2018*; and

(c) Test the tap after mitigation is complete, demonstrating lead is less than 15 ppb before access to the tap is resumed. A first-draw sample as described in subsection (2)(b) must be collected and analyzed.

(7) All test results must be made available as specified in ORS 332.334.

Stat. Auth.: Oregon Laws 2017, Chapter 700
Stats. Implemented: ORS 332.331, Oregon Laws 2017, Chapter 700