February 1, 2022

MEMORANDUM

TO: City and County Superintendents

FROM: Eric G. Mackey
State Superintendent of Education

RE: Lead Testing Program for Public Schools Drinking Water

In the past, we have partnered with the Alabama Department of Environmental Management (ADEM) for testing drinking water for lead in all public schools. The ADEM will restart testing in public schools with the goal of sampling all schools by December 2025, including those previously sampled. The ADEM received results from over 1,600 schools in the previous testing program and look forward to even more participation under the current sampling program.

For schools that have not collected samples under this new program, I strongly encourage you to conduct this testing as soon as possible. Training sessions and technical assistance are being provided throughout the state by the ADEM and the Alabama Rural Water Association at no cost to those wishing to participate in the program. A copy of the sampling document is attached for your information. The sampling plan includes procedures and detailed instructions for collecting samples, along with forms to help with completing the testing process. I encourage you to contact your local water system for partnering opportunities.

The ideal time to collect samples for lead is during the warmer months when schools are in session. If you need assistance with planning and collecting samples at your schools, please contact Laura A. Taylor with ADEM at 334-271-7820.

The ADEM will be posting quarterly updates to their website with a list of participating schools and their sample summaries.

EGM/BTP/JR

Attachment

cc: Brandon T. Payne
Laura A. Taylor

FY22-3007
LEAD TESTING
IN PUBLIC SCHOOLS
SAMPLING PLAN
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Section 1

Plumbing Fixture Selection Criteria for Lead Sampling in School Systems

All schools should complete a plumbing fixtures inventory for each building to be tested. The inventory shall delineate the type of fixture (e.g., water cooler, kitchen sink, bathroom sink, etc.), the make/manufacturer of the fixture (e.g., Delta, Moen, etc.), and the approximate year the fixture was installed or manufactured. Fixtures manufactured from 1982 to 1987 should be given preference as possible sampling sites. If there are no fixtures manufactured from 1982 to 1987, then the oldest fixtures should be given preference as possible sampling sites.

The number of fixtures selected for sampling should be determined on a case by case basis, depending on the variety of fixtures located in each school building. Only fixtures in school buildings used by students are required to be sampled (e.g., fixtures in a bus maintenance facility are not required to be sampled). If multiple buildings on a campus were constructed at the same time, using the same type fixtures, then fixtures from only one of the buildings are required to be sampled and tested.

Water coolers and kitchen sinks are to be given preference as sample sites. A sample should be collected from at least one water cooler and one kitchen sink. Other type fixtures (e.g., bathroom sinks) are not required to be sampled, but may be selected if there is reason to believe the fixture poses a significant lead exposure risk to students and/or staff.

At a minimum the following types of fixtures should be inventoried:

- Kitchen Sink Faucets (KC)
- Water Coolers (WC)
- Drinking Water Bubblers (WB)
- Nurses Office Sink Faucets (NS)
Plumbing Fixture Inventory Form

School System: __________________________

School: ________________________________

Building Number: ______________________

Number of Samples Required: (TBD)

<table>
<thead>
<tr>
<th>Check if Sampled</th>
<th>Fixture Type</th>
<th>Year Manuf.</th>
<th>Make</th>
<th>Location</th>
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**Lead Sampling Procedures**

The monitoring period will be during the school year, preferably during August, September, April or May. Regardless, samples should be taken when school is in session.

All lead samples must be first-draw or initial samples and must be 250 milliliters in volume. This volume is representative of water per serving consumed by a child. The water must be motionless (not used) in the plumbing system of each school facility or building for a minimum of eight hours. While the water cannot be used for more than eight hours, do not collect samples from sites which have not been used for an extended period of time; such as a site which has had no water use for several days.

Samples shall be collected from kitchen sink faucets, drinking fountains, or water bubblers. Other type fixtures (e.g., bathroom sink faucets) may be selected, if there is reason to believe the fixture poses a significant lead exposure risk to students and/or staff.

All samples shall be collected from an interior, cold water tap from which water is typically drawn for consumption.

Sampling sites must not include faucets which have point-of-use or point-of-entry treatment devices designed to remove inorganic contaminants. This includes devices such as filters, softeners, RO systems, etc.

Samples may be collected by designated personnel after receiving training on the proper sampling procedures.

If resampling is required, designated personnel shall collect the resample from the same sampling site used in the previous round of sampling, unless a change of sampling site is made in accordance with "section 2" of this document.

Resampling should be conducted if it is determined lead concentrations in an initial sample exceeds the designated "action level" established for schools (i.e., 20 ppb).

**Sites and Situations to Avoid**

*Do not use*

- A mop sink, outside faucet or a tap that is not generally used or intended for human consumption
- A site which is vacant *(don’t make special arrangements to get access to site)*
- A site which has undergone recent (within the last 6 months) plumbing improvements or changes including faucets at the specific sample location
- A tap that has any type of treatment
Lead Sampling Instructions for Designated Personnel

Please read these instructions before opening the sample bottle

These samples are being collected to determine the levels, if any, of lead in your tap water. This sampling is recommended by the U. S. Environmental Protection Agency and the State of Alabama.

**Sampling Requirements**

- Do not rinse or overfill the bottle
- Samples should be collected from water fountains and kitchen water faucets. Do not use an outdoor faucet. If you resample, use the same water cooler or kitchen sink faucet you used previously.
- Before sampling, do not use water from the faucet for at least 8 hours. Also, do not use water in the school facility during the no use period.
- Collect the sample after at least 8 hours of no use before the water in the school facility is used for anything else. The water should sit in the pipes unused for at least 8 hours.

**Sampling Steps**

1. Open the bottle and hold under the faucet.
2. Turn the cold water faucet or water cooler on to a low flow and collect the first water that comes out of the faucet. *(DO NOT RUN WATER FROM THE TAP BEFORE FILLING THE BOTTLE)*
3. Fill the bottle to the shoulder.
4. Place lid on bottle and tighten cap securely.
5. Fill in label completely except for the sample ID.
6. Place bottle in shipping or pickup container.
7. Return the sample to the analytical laboratory as soon as possible.
8. Maintain “Chain of Custody” at all times.

Please note on the sample sheet the following conditions:

- If any plumbing repairs or pipe replacements have been done in the last 5 years.
- If you have a water softener or other treatment or filter.

If you have any questions contact the following:

Name: ___________________________  Phone #: ____________________
Section 2

Making Changes to Sampling Site Locations

The school will make an assessment of its ability to sample a sufficient number of appropriate sites from this lead sampling plan well in advance of the monitoring period. Samples should be collected early in the monitoring period to ensure samples arrive at the lab in a timely fashion and are analyzed well before the end of the monitoring period.

Changes to sampling sites are allowed when the designated personnel can no longer gain access to the site or if the original site location no longer meets the selection criteria (for example, if a school facility is vacant or demolished, if a softener is added, or plumbing upgrades have been made).

Additional changes can also be made if the school adds new sampling sites, provided they meet the requirements of a proper sampling location.

This lead sampling plan should be updated whenever there is an addition or deletion of a site.
Complete one of these forms for each site sampled

SCHOOL SYSTEM: ________________________

NAME OF SCHOOL: ________________________

BUILDING NUMBER: ________________________

Sample collection date: ________________________

**SAMPLES SITE IDENTIFICATION AND CERTIFICATION**

### RESULTS OF MONITORING

<table>
<thead>
<tr>
<th>Sample location:</th>
<th>[Sample location details]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical Lead result, in mg/L (milligrams per liter):</td>
<td>[Analytical Lead result]</td>
</tr>
</tbody>
</table>

### CHANGE OF SAMPLING SITES

Only complete this section if changing sampling site.

Original Site Location:

New Site Location:

Reason for Change (attach additional pages if necessary):

<table>
<thead>
<tr>
<th>Reason for Change details</th>
<th>[Reason for Change details]</th>
</tr>
</thead>
</table>

**SIGNATURE** (name & title) | [Signature] | Today’s Date: [Date]
Section 3

Combined Lead Consumer Notice and Certification Form

School Name: __________________________ Date: __________

LEAD CONSUMER NOTICE

ANALYTICAL RESULTS FOR LEAD TAP WATER MONITORING

Our school facility voluntarily collected tap water samples to determine the lead levels in our school's drinking water. The school facility and sampling sites were selected for this monitoring as part of our overall sampling plan. This notice is provided to you with the analytical results of the water sample collected at the school facility.

Sample location: __________________________ Sample collection date: __________

Analytical Lead result, in mg/L (milligrams per liter): __________

Sample location: __________________________ Sample collection date: __________

Analytical Lead result, in mg/L (milligrams per liter): __________

Sample location: __________________________ Sample collection date: __________

Analytical Lead result, in mg/L (milligrams per liter): __________

Sample location: __________________________ Sample collection date: __________

Analytical Lead result, in mg/L (milligrams per liter): __________

Sample location: __________________________ Sample collection date: __________

Analytical Lead result, in mg/L (milligrams per liter): __________

Note: All sample results may be shown on one notice, or on separate individual notices.

Definitions

Action Level (AL): The action level is a concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a school facility must follow. The lead action level for schools is 0.020 mg/L.

What are the health effects of lead and how can I reduce my exposure?

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and plumbing. The public water system is responsible for providing drinking water that meets all federal and state standards, but cannot control the variety of materials used in plumbing components.

When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water and using only cold water for drinking or cooking. Information on lead in drinking water and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov.

Who can I contact at my school for more information? __________________________
Consumer Notice Instructions:
Schools should complete the consumer notice and distribute the notice to each building that was tested.

Consumer Notice Content
The consumer notice should include the mandatory language in the example provided with these instructions. It should be multilingual, where appropriate.

Distribution of the Consumer Notice
Schools should provide the consumer notice to all the people served at each building that was a part of the sampling plan. The consumer notice should be provided within 30 days of receiving the sampling results. ADEM recommends schools provide the consumer notice as soon as available, especially if the result is elevated, to allow affected persons to take corrective actions in a more timely manner.

Date Consumer Notice completed:______________________

DELIBERY CERTIFICATION

I certify under penalty of law that I am familiar with the information submitted in this document and that it is true, accurate, and complete.

Name (print or type)______________________________________Title ________

Signature________________________________________________Date_________________