



Lead and Copper Sampling Plan Requirements

Section 6.1.7.7.1.1 of State of Delaware Regulations Governing Public Drinking Water Systems

Introduction:

All community water systems (CWS) and non-transient, non-community water systems (NTNCWS) were required to have a lead and copper sampling plan submitted to the Office of Drinking Water (ODW) at the start of the Lead and Copper Rule (LCR) in the early 1990's. ODW is requiring these water systems to update and resubmit their sampling plans. New systems and those that did not create a sampling plan when the rule began will now be required to create one by the same deadline.

Instructions:

Complete all sections in this packet. Incomplete submissions will be returned to the system. ODW will respond with a written decision on your plan. If your plan is not approved, please make corrections as requested and resubmit to ODW. If your plan is approved, attach approval letter(s) to your plan and file with your water system records.

This plan should be provided to and reviewed by all persons responsible for lead and copper sampling. If at any time in the future this plan needs to be modified, resubmit the plan with those changes.

If you have any questions about lead and copper sampling plan requirements, contact the Lead and Copper Rule Manager with the Office of Drinking Water at 302-741-8630.

I. General Information

Public Water System (PWS) Name: _____

PWSID#: _____

PWS Type: Community Non-Transient, Non-Community

Resident Population Served: _____ Transient Population Served: _____

PWS Owner: _____ Phone Number: _____

Water Operator: _____ Phone Number: _____



II. Records Review

Locate and review existing plans, drawings and reports of the water system to identify the total number of lead service lines, lead piping, copper pipe with lead solder installed after December 31, 1982, copper pipe with lead solder installed before January 1, 1983, or brass faucets.

Required sources of review (check after review):

- Plumbing or building codes
- Plumbing or building permits
- Building department, town hall or state regulatory agencies for historical documentation of the service area development

Optional sources of review (check after review):

- Interviews with building inspectors (for inspection and/or maintenance records)
- Distribution system maps and drawings
- Survey of plumbers and/or residents in the sections of the service area where lead pipe and/or copper pipe with lead solder is suspected to exist. Specify: Plumber Resident
- Service line sampling

Other:

III. Tier Classifications

Lead and copper regulations require water systems to sample at locations that may be particularly susceptible to high lead or copper concentrations. The LCR established a tiering system for prioritizing sampling sites. A materials evaluation is required to help classify sampling sites into tiers.

Community Water Systems:

Tier 1 sampling sites are single-family structures:

- Contain copper pipes with lead solder installed after 1982 or contain lead pipes; and/or
- Are served by a lead service line

Note: When multiple-family structures comprise at least 20 percent of the structures served by a water system, the system may count them as Tier 1 sites.

Tier 2 sampling sites consist of buildings, including multiple-family structures that:

- Contain copper pipes with lead solder installed after 1982 or contain lead pipes; and/or

- Are served by a lead service line

Tier 3 sampling sites are single-family structures that contain copper pipes with lead solder installed before 1983.

Non-Transient, Non-Community Water Systems:

Tier 1 sampling sites consist of buildings that:

- Contain copper pipes with lead solder installed after 1982 or contain lead pipes; and/or
- Are served by a lead service line

Tier 2 sampling sites consist of buildings that contain copper pipes with lead solder installed before 1983.

Tier 3 Not applicable.

Representative sample: If a CWS or NTNCWS cannot collect enough samples from tiered sites, it must collect them from sites where the plumbing is similar to that used at other sites served by the water system.

IV. Materials Evaluation

The worksheet on the following page is to be filled out after the Records Review (see Section II above) has been completed. The purpose of the materials evaluation is to determine which sites contain the highest priority materials, and therefore shall be included in your pool of sample sites. When a sufficient number of Tier 1 sites are not available, you must complete your sampling pool with Tier 2 sites. If not enough Tier 1 and 2 sites are available, Tier 3 sites must be used. Any water system that cannot complete its sampling at sites that meet the applicable tier criteria must complete sampling at representative sites throughout the distribution system.

EPA recommends that a water system identify more sampling sites than the number of samples you are required to collect during each monitoring period in case volunteers drop out. To see how many samples are required during initial monitoring, refer to the table below:

Size Category	System Size	Number of Lead and Copper Tap Sample Sites	
		Standard	Reduced
Large	>100K	100	50
	50,001 - 100K	60	30
Medium	10,001 - 50K	60	30
	3,301 - 10K	40	20
Small	501 - 3,300	20	10
	101 - 500	10	5
	≤ 100	5	5



Materials Evaluation - Primary Sampling Sites

No.	Address	Tier Level	Type of Structure	Plumbing Material	Plumbing Material Verified	Served by Lead Service Line	Sampling Instructions Issued to Addressee
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							



Materials Evaluation - Alternate Sampling Sites

No.	Address	Tier Level	Type of Structure	Plumbing Material	Plumbing Material Verified	Served by Lead Service Line	Sampling Instructions Issued to Addressee
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							



V. Lead Service Line Certification

The aforementioned sources have been reviewed to determine the number of lead service lines in the distribution system.

The following addresses/locations are served by a lead service line:

The following addresses/locations are served by a partial lead service line:

VI. Lead Solder Certification

The aforementioned sources have been reviewed to determine the number of structures that contain interior lead pipe or copper pipe with lead solder.

The following addresses/locations are served by interior lead pipe or copper pipe with lead solder:

VII. Map

Provide a map of the water system with the primary and alternative sampling sites identified. Include the name of the water system and PWSID number. You may add lead and copper sampling locations to your already existing total coliform, chemical and/or disinfection byproducts sampling map if that applies.

VIII. Signature of System Owner, Administrative Contact or Water Operator

I have read the Lead and Copper Sampling Plan Requirements document and certify that the above information is true and accurate to the best of my knowledge:

Signature

Date

Printed Name

Job Title