



PWS SAMPLING PLAN FOR LEAD AND COPPER TAP SAMPLES AND WATER QUALITY PARAMETERS

See page 6 for instructions.

| I. General Information | | | |
|--|--|---|-----------|
| Public Water System (PWS) Name: | | | |
| PWS Identification Number: | | PWS Type: <input type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community | |
| PWS Size: <input type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Large | | Total Population Served: | |
| Population Interval:* <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G | | | |
| PWS Owner: | | | |
| Contact Person: | | Contact Person's Title: | |
| Contact Person's Mailing Address: | | | |
| City: | | State: | Zip Code: |
| Contact Person's Telephone Number: | | Contact Person's Fax Number: | |
| Contact Person's E-Mail Address: | | | |

* *The minimum number of tap sample sites for lead and copper (LC) and water quality parameter (WQP) distribution system sample sites is based on a system's population interval, which is selected from the table below. For the purposes of this form, the population served is the sum of the number of permanent residents and the number of additional non-transient persons to whom the system is available, such as school children, office and commercial employees, and seasonal residents.*

| Total Population Served | Population Interval | LC Sites | WQP Sites |
|-----------------------------|---------------------|------------|-----------|
| <i>greater than 100,000</i> | <i>A</i> | <i>100</i> | <i>25</i> |
| <i>50,001 to 100,000</i> | <i>B</i> | <i>60</i> | <i>10</i> |
| <i>10,001 to 50,000</i> | <i>C</i> | <i>60</i> | <i>10</i> |
| <i>3,301 to 10,000</i> | <i>D</i> | <i>40</i> | <i>3</i> |
| <i>501 to 3,300</i> | <i>E</i> | <i>20</i> | <i>2</i> |
| <i>101 to 500</i> | <i>F</i> | <i>10</i> | <i>1</i> |
| <i>less than 101</i> | <i>G</i> | <i>5</i> | <i>1</i> |

II. Records Review

Locate and review existing plans, drawings, and reports of the water system and also those kept by county or municipal building departments or code enforcement offices to identify available sampling sites and the total number of lead service lines in the distribution system.

A. Identification of Interior Plumbing Material Types

Identify single-family and multiple-family residences and buildings that have interior plumbing containing lead pipe, copper pipe with lead solder installed after December 31, 1982, or copper pipe with lead solder installed before January 1, 1983; and identify structures with brass faucets and those with point-of-entry or point-of-use devices.

Required sources of review (check after review):

- Plumbing or building codes.
- Plumbing or building permits.
- Contacts within the building department, municipal clerk's office, or State regulatory agencies for historical documentation of the service area development.
- Review of drinking water sampling results, such as those from lead testing in schools.

Optional sources of review (check those utilized):

- Interviews with building inspectors.
- Survey of service area plumbers about when and where lead solder was used from 1983 to the present.
- Survey of residents in the sections of the service area where lead pipe and/or copper pipe with lead solder is suspected to exist.
- Interview of local contractors and developers.

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B. Identification of Lead Service Lines and Components with Lead Content

Identify the number and location of lead service lines and identify the location of water distribution system components that contain lead.

Required sources of review (check after review):

- Distribution system maps and record drawings.
- Information collected on the presence of lead and copper as required under 40 CFR 141.42, Special Monitoring for Corrosivity Characteristics.
- Capital improvement plans or master plans for distribution system development.
- Current and historical standard operating procedures or operation and maintenance manuals for the type of materials used to install service connections.
- Utility records, including meter installation records, customer complaint investigations, and other historical documents, that indicate or confirm the location of lead service connections.
- Drinking water sampling results that indicate that a structure is susceptible to lead in drinking water.

Optional sources of review (check those utilized):

- Interviews with utility employees familiar with past construction practices.
- Service line sampling where lead service lines are suspected to exist but their presence is not otherwise confirmed.
- Review of permit files.
- A community survey.
- Interview of local pipe suppliers, contractors, and developers.

III. Materials Survey

Fill out the following Materials Survey Summary Table to summarize the results of the records review performed under Part II of this form to identify a sampling pool of lead and copper tap sampling sites.

| Materials Survey Summary | Type of Structure Being Served | | |
|---|--------------------------------|------|-------|
| | SFRs | MFRs | BLDGs |
| | Number of Service Connections | | |
| A. Interior Plumbing Material Sites | | | |
| Lead Pipe | | | |
| Copper Pipe With Lead Solder Installed After 1982 | | | |
| Copper Pipe With Lead Solder Installed Before 1983 | | | |
| Brass Faucets | | | |
| Point-of-Use or Point-of-Entry Treatment Devices | | | |
| Lead-Lined Water Coolers | | | |
| Other Lead Plumbing Components | | | |
| B. Lead Service Line Sites | | | |
| Total Initial Number of Lines that Are Entirely Lead and Subject to Replacement | | | |
| Partial Lead Lines | Goosenecks | | |
| | Pigtails | | |
| C. Lead Distribution System Component Sites | | | |
| Service Connections Within 100 feet of Distribution System Components Containing Lead | | | |
| D. Total No. of Service Connections to Available Sampling Sites | | | |
| E. Total Number of Service Connections in Distribution System | | | |

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VI. Certification

A. Site Selection Criteria

Whenever possible, lead and copper tap sample plans must include tier 1 sites exclusively. Explain the selection of other than tier 1 sites; and if sites were changed from one monitoring period to another, explain why the sites were changed (attach additional pages if necessary). _____

B. Lead Service Line Sites

When lead service line sites are identified, they must comprise at least 50 percent of the selected samples. Explain why the percentage of lead service line sites is not at least 50 percent of the required number of sampling sites (attach additional pages if necessary). _____

C. Water Quality Parameter Sampling Plan

If any WQP distribution system sampling sites are not also microbiological sampling sites, explain how the selected WQP distribution system sampling sites represent water quality throughout the distribution system based on the distribution of population, the different sources of water and treatment methods, and an even distribution of sampling throughout the six-month sampling period (attach additional sheets as necessary). _____

I am duly authorized to sign this form on behalf of the PWS identified in Part I of this form. I certify that the information provided on this form is true and accurate to the best of my knowledge and belief. I certify that the information listed and checked in Part II of this form was used to perform the materials survey in order to identify the total number of lead service lines in the PWS and to establish the sampling pool and sampling plans. I also certify that the number of lead service lines reported in Part III of this form is the total known number of lead service lines in the PWS and that the selected sampling sites in Part IV of this form are the highest risk sites available.

Signature and Date

Printed or Typed Name

Title

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INSTRUCTIONS: This form shall be completed and submitted by community water systems (CWSs) and by non-transient non-community water systems (NTNCWSs). Complete all parts of this form, attach any maps and written narrative describing the sampling plan, and submit the completed form and any attachments to the appropriate Department of Environmental Protection (DEP) District Office or Approved County Health Department (ACHD) 30 DAYS PRIOR TO THE BEGINNING OF A SIX-MONTH MONITORING PERIOD FOR LEAD AND COPPER IN DRINKING WATER. All information provided on this form shall be typed or printed in ink. The DEP District Office or ACHD will notify a system of approval of a Sampling Plan in writing, which will provide the system notice to proceed. Submit a revised Sampling Plan using this form if any changes in the selection of sampling sites must be made. When no changes have been made, no resubmission is necessary prior to sampling during the next six-month sampling period.

The following specific instructions are for the table in Part III of this form.

In A and B, show, by type of structure being served (i.e., single-family residences [SFR], multiple-family residences [MFR], or other buildings [BLDG]), the number of service connections to sites having the listed interior plumbing material characteristics or the listed service line characteristics. In C, show, by type of structure being served, the number of service connections within 100 feet of distribution system components containing lead. In D, show, by type of structure being served, the total number of service connections to available sampling sites. In E, show, by type of structure being served, the total number of service connections in the distribution system.

The following specific instructions are for the table in Part IV of this form.

ID. Enter a site identification number of up to three digits.

TIER. Enter the tier number of each site. Lead and copper tap sampling sites are categorized as tier 1, for the highest risk, to tier 2, 3, or 4 for successively lower risks. The tier categories are different for CWSs and NTNCWSs. For CWSs, tier 1 sites are single-family residences or child care facilities that contain either: copper pipe with lead solder installed after December 31, 1982, lead pipe, or a lead service line. Multiple-family residences are tier 1 when they comprise at least 20 percent of the structures served by the system. For CWSs, tier 2 sites include buildings and multiple-family residences that contain: copper pipe with lead solder installed after December 31, 1982, lead pipe, or a lead service line. For CWSs, tier 3 sites consist of single-family residences that contain copper pipe with lead solder installed before January 1, 1983. For CWSs, tier 4 sites are those that are identified as susceptible to lead or copper contamination but not belonging to one of the other tiers. For NTNCWSs, tier 1 sites are buildings that contain: copper pipe with lead solder installed after December 31, 1982, lead pipe, or a lead service line. For NTNCWSs, tier 2 sites are buildings that contain copper pipe with lead solder installed before January 1, 1983. For NTNCWSs, tier 3 sites are those identified as susceptible to lead or copper contamination and are the same as CWS tier 4 sites. When too few tier 1 sites are identified, tier 2 sites must be located to develop the sampling plan and so on through tiers 3 and 4.

TYPE, LOCATION, and CONTACT PERSON. Enter the type of structure in the Type column. Site types are identified as a single-family residence (SFR), a multiple-family residence (MFR), or a building (BLDG). Enter the street address of the site in the Location column and the name and phone number of the building or residence owner in the Contact Person column.

LSL and HOME PLUMBING MATERIAL. Enter a "Y" in the LSL column to identify a site with a lead service line. The plumbing material must be identified for each site in the Home Plumbing Material column. Enter one of the following:

- "Pb1" to identify a site with lead solder installed after December 31, 1982;
- "Pb2" to identify a site with lead solder installed before January 1, 1983;
- "LP" to identify a site with lead pipe;
- "BF" to identify tier 4 sites (tier 3 for NTNCWSs) that have brass faucets;
- "WC" to identify tier 4 sites that have water coolers with lead content;
- "POE" or "POU" to identify tier 4 sites that have a point-of-entry or point-of-use treatment device, respectively; or
- "LC" to identify a tier 4 site within 100 feet of a lead component in the distribution system.

FIELD VERIFIED, SITE STATUS, and TRAINING STATUS. Show if the site's home plumbing or service line material has been field verified by a "Y" in the Field Verified column. Sites selected for sampling should be indicated by entering an "S" in the Site Status column. Optional sites are identified by an "O." To be a selected site, there must be an agreement with the site building owner to sample himself or to have the site sampled by the system. All homeowners who will sample at the selected sites must receive training in sampling procedures. Indicate which homeowners have received training by a "Y" in the Training Status column.

The following specific instructions are for the table in Part V of this form.

ID NUMBER. Use a two-digit number as an identification number.

LOCATION. The street address should be given as the site location.

TARGET DATES. List target sampling dates for the two required sampling rounds to demonstrate how sampling will evaluate seasonal water quality differences.