



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
 DRINKING WATER AND MUNICIPAL ASSISTANCE DIVISION
SAMPLING PLAN – LEAD AND COPPER

Issued under authority of the Michigan Safe Drinking Water Act, 1976 PA 399, and Administrative Rules, as amended. Administrative Rule R 325.10710a requires a water supply to monitor for lead and copper according to a pool of targeted sampling sites in accordance with designated site selection criteria. Complete and submit this form to MDEQ.

Water Supply Information

| | |
|------------------|-------------------|
| Supply Name | WSSN |
| Address | County |
| City, State, Zip | Population Served |

Contacts – Water Supply

| | | |
|----------------|--------|------------------|
| Name and Title | E-mail | () Telephone |
| Name and Title | E-mail | () Telephone |
| Name and Title | E-mail | () Telephone |

Contacts – DEQ and Other

| | | |
|--|--|---|
| Ms. Jeni Bolt Lead and Copper Rule Specialist (517) 331-5161; boltj@michigan.gov | Ms. Heather Jackson Lead and Copper Rule Analyst (517) 242-3997; jacksonh@michigan.gov | Mr. Brandon Onan, P.E., Corrosion Control Engineer (616) 307-6736; onanb@michigan.gov |
|--|--|---|

MDEQ Lead and Copper Contacts

| | | |
|--|--------|------------------------------------|
| MDEQ Drinking Water District Analyst Name | E-mail | () Telephone |
| MDEQ Drinking Water District Engineer Name | E-mail | () Telephone |
| Pollution Emergency Alerting System Information (PEAS) Call PEAS number if unable to contact MDEQ staff. | | (800) 292-4706 Telephone |
| Local Official | E-mail | () Telephone |
| Local Official | E-mail | () Telephone |
| Health Department | E-mail | () Telephone |

Public Advisory, Education, and Notification

| | | |
|---|--------|------------------|
| Means of Distributing Information to the Public | | |
| Newspaper Name and City | E-mail | () Telephone |
| Radio/Television Name and Address or City | E-mail | () Telephone |

Date Cover Sheet Updated

MICHIGAN COMMUNITY WATER SUPPLY LEAD AND COPPER TAP SAMPLING POOL

>>> REVIEW INSTRUCTIONS ON PAGES 4 AND 5 BEFORE COMPLETING FORM BELOW <<<

WSSN: _____ Supply Name: _____ Page _____ of _____

Standard Number of Sites Required: _____ Reduced Number of Sites Required: _____

| Site No. | Address | Tier Level | Category | Structure Type | Service Line Material | Interior Plumbing Material | Site Validation Method |
|----------|---|------------|----------|----------------|-----------------------|----------------------------|------------------------|
| 00 | <i>Ex: 0000 Any Street – Any Town, MI</i> | 1 | A | SFR | L | C | Visual |
| 01 | | | | | | | |
| 02 | | | | | | | |
| 03 | | | | | | | |
| 04 | | | | | | | |
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| 19 | | | | | | | |
| 20 | | | | | | | |

Use next page to record additional sampling sites.

Plan Completed By

Name

Signature

Title

Date

For MDEQ Use Only

- Plan Accepted
 Revisions necessary as indicated
 Staff: _____ Date: _____

Michigan Lead and Copper Rule Lead and Copper Tap Sample Site Selection Criteria

Community water supplies must identify a pool of lead and copper sampling sites containing **AT LEAST** the number of sites necessary to conduct **STANDARD** monitoring (see instructions for number of required sites). It is highly recommended that the sampling pool contain more sites than required in case routine sites are unavailable at time of sampling. The sampling pool must target high risk sites using the criteria below.

- **Samples must be collected from Tier 1 sites, unless ...**
- insufficient Tier 1 sampling sites are available, then **Tier 2** sites must be used, unless ...
- insufficient Tier 1 and Tier 2 sampling sites are available, then **Tier 3** sites must be used.
- If no Tier 1, 2, or 3 sites are available, sampling sites must be representative of plumbing materials typically found throughout the water system.

TIER 1 SITES - Single family residences with either:

- Lead service lines (LSL)*
- Interior lead plumbing

Multiple family residences (MFR) with LSLs or interior lead plumbing may be used as Tier 1 sites when MFR comprise at least 20 percent of the total service connections.

TIER 2 SITES – Other buildings or multiple family residences with either:

- Lead service lines*
- Interior lead plumbing

TIER 3 SITES - Single family residences with:

- Copper plumbing with lead solder installed before July 1988

OTHER SITES

- Sites representative of plumbing materials commonly found throughout the water supply.

*** Priority should be placed on sites with full LSLs, followed by partial LSLs, followed by lead goosenecks or pigtails.**

Also Note:

- Each round of sampling should be conducted at the **SAME** sampling sites unless ...
 - a site no longer meets tiering criteria (for example, a site is no longer Tier 1 after having the lead service line replaced); or
 - a site is unavailable (for example, a site has no water service, resident refuses to participate, etc.)
- **DO NOT** sample from outside hose spigots or utility sinks.
 - For residential sites, samples **MUST BE** collected from kitchen or bathroom taps typically used for consumption. For non-residential sites, samples **MUST BE** collected from taps typically used for consumption.
- Samples **MAY NOT** be taken from taps that have point of use or point of entry treatment devices designed to remove inorganic contaminants, such as an iron removal filter, reverse osmosis system, or water softener.

Lead and Copper Sampling Pool Form Instructions

Water Supply Name, WSSN, and County: Enter your water supply information.

Standard Number of Sites Required: Enter the standard number of sites you are required to sample based on your population.

| People Served | Standard Sites | Reduced Sites |
|-------------------|----------------|---------------|
| More than 100,000 | 100 | 50 |
| 10,001 to 100,000 | 60 | 30 |
| 3,301 to 10,000 | 40 | 20 |
| 501 to 3,300 | 20 | 10 |
| 101 to 500 | 10 | 5 |
| Fewer than 101 | 5 | 5 |

Reduced Number of Sites Required: Enter the number of sites you would be required to sample if the MDEQ reduces your monitoring.

Address: Enter the street number or other unique identifier (such as lot or unit number) of the sampling site and include the city if the water utility services multiple cities.

Tier, Category, and Structure Type: Enter the appropriate codes from the table below in the Tier, Category, and Structure Type columns to identify the selection criteria for each site.

| Tier | Category | Structure Type | Description |
|--------|----------|-------------------|---|
| Tier 1 | A | SFR | Single Family Residence (SFR) with lead service line |
| | B | SFR | SFR with interior lead plumbing |
| | C | MFR | Multi-family Residence (MFR) if MFRs comprise at least 20% of total service connections |
| Tier 2 | D | MFR or BLDG | MFR or other building (BLDG) with lead service line |
| | E | MFR or BLDG | MFR or other BLDG with interior lead plumbing |
| Tier 3 | F | SFR | SFR with copper plumbing with lead solder installed before 1988 |
| Other | OT | SFR, MFR, Or BLDG | If no Tier 1, 2, 3 sites, use sites representative of plumbing commonly found throughout the supply |

Service Line and Interior Plumbing Material: Enter the appropriate codes from the table below in the Service Line Material and Interior Plumbing Material columns.

| Material |
|--|
| L = Lead |
| CLS = Copper with lead solder installed before July 1988 |
| C = Copper installed after July 1988 |
| G = Galvanized |
| P = Plastic |

Site Validation Method: Enter method used to verify site information (permit records, visual inspection, etc.).

NOTE: It is **highly recommended** that the plan contains more sites than are required for standard monitoring. For example, if the standard number of required sampling sites is 10, list 5 or more additional, appropriately tiered sites that may be used as an alternate if an original site is unavailable.