

## **From Inventory to Implementation:**

## Lead and Copper Rule Community Forum

MWRA and MWRA Advisory Board October 24, 2024



## Welcome and Introductions

Matthew Romero MWRA AB Executive Director

*Lisa Bina Deputy Director of Waterworks* 



## Who Are We?

## **MWRA Advisory Board:**

Working to **represent** and **protect** the interests of member communities in the MWRA service area.



**Our mission** is to foster collaboration and ensure that all communities receive the support they need in water and wastewater management.



## Our New Chapter with ABTV

## Introducing **ABTV**, our brand-new podcast!

We'll be discussing key issues around water sustainability, infrastructure, and what's happening in your community.

Catch our latest episodes directly on our website or through your favorite podcast platforms.

Be sure to tune in for the LCR Workshop podcast that will be posted on all streaming platforms!





## Our Social Media Re-Launch

### We're back and better!

Stay connected with us across all platforms for updates, community news, and important water information.





Let's grow our online community and keep the conversation going!

Boston's Water Scare: The Real Story Behind PFAS Claims



## Share Our Work

# Our resources aren't just for MWRA communities—they're valuable for everyone!



### Share our content with

anyone who could benefit, from other towns to environmental groups.



shutterstock.com · 2208216527



If you're from a community **without** an active representative, **reach out**—we'd love to have you join us!



## Connect With Us

We'd love to hear from you! Whether it's feedback, questions, or collaboration opportunities, let's stay connected.

Scan This QR Code



- Website: https://www.mwraadvisoryboard.com/
- Linktree (access to all links): https://linktr.ee/mwraadvisoryboard
- Podcast: https://www.mwraadvisoryboard.com/podcasts/



## **From Inventory to Implementation:**

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- Everyone is muted please use raise hand or use chat function
- We'd love for this to be interactive add your experiences or questions as we go along
- Put your name, affiliation and email address in the chat to ensure TCHs are received. (For each person, if more than one are at your computer) 1.5 TCHs will be awarded for this training.
- Respond to any review questions as they are presented
- A copy of slides will be provided after the forum



- Welcome and Introductions *Lisa Bina*
- Overview -- Where to from here? *Stephen Estes-Smargiassi*
- Notification to Homeowner and Residents- Kristen Hall
- What's On Your Website? Claudia Baptista
- Working to Improve Inventories *Claudia Baptista*
- Galvanized Requiring Replacement *Stephanie Tarves*
- 24 Public Notice Hour if Over the Action Level *Stephen Estes-Smargiassi*
- It's All About Lead Service Lines Stephen Estes-Smargiassi
- Funding Sources for LSL Replacement Dave Granados
- Best Practice is Practice for Compliance *Stephen Estes-Smargiassi*
- Q and A Lisa Bina
- Upcoming AWIA Deadlines Michael O'Keefe



## Where to From Here?

Stephen Estes-Smargiassi Director of Planning and Sustainability



- <u>Every</u> community should have submitted an initial service line inventory to MassDEP by October 2024
  - MWRA would love to have your inventory summary
- Every community with lead service lines (LSL), galvanized requiring replacement (GRR) or unknown service lines (UNK) must do initial annual customer notification by November 15, 2024
- Every community over the lead Action Level of 15 ppb must do the 24 hour Tier 1 public notice

 Other aspects of the LCRR have been deferred by the LCRI until after 2027



### Lead and Copper Rule Improvements

- EPA issued final LCRI in October 2024, as expected, it requires:
- Replace all LSL within 10 years
- Lower Action Level from 15 ppb to 10 ppb
- Change sampling and reporting protocols
- Require re-optimization of corrosion control if over the AL
- Option to defer CCT changes if replace LSL in 5 years
- School and Childcare Sampling
- We will touch on a few of these today
- More details in future training, and as EPA issues guidance



- Our goal is public health protection
- Children's blood lead levels are down 90 percent
- Lead levels at customer's taps have declined dramatically
- But still more to be done get as close to zero as possible



- Long Term Goals
  - Reducing lead corrosion
  - Removing lead from contact with our water
- MWRA Effective Corrosion Control Treatment
- Communities Removing LSL, Informing the Public
- Residents Cooperate in LSL Replacement, Premise Plumbing
- Health Professionals Effective Communication about Risks







## Notifications to Homeowners and Residents

Kristen Hall, Senior Program Manager, Community Support



### **Consumer Notifications**





Likely to generate national and local **press coverage**...





...be prepared to **tell your story**. Give people the good news



### **Notifications and Media**

Have a **plan** in place and show that you have already taken **action** 





Have your staff ready to respond to questions



### Required language, cannot be changed

### Health effects of lead

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or worsen existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these negative health effects. Adults can have increased risks of heart disease, high blood pressure, and kidney, or nervous system problems.



### **Discuss Steps Consumers Can Take to Reduce Exposure to Lead in Drinking Water**

- Running water to flush out the lead
- Explain concerns with using hot water from tap and specifically caution against the use of hot water for preparing baby formula.
- Explain that boiling water does not reduce lead levels
- Encourage regular cleaning of faucet aerators
- Certified Filter to reduce lead exposure
- Suggest that parents have their child's blood tested for lead
- Tell consumers how to get their water tested



#### [System] DRINKING WATER NOTICE

Choose One: (1) Your home is served by a confirmed lead service line, (2) Your home is served by a lead service line verified by [verification method]

This notice contains important information about your drinking water. Have someone translate it for you or speak with someone who understands it.

#### Dear Customer,

Water systems are now required to document all water service line materials andidentify any lead or lead containing materials. Our most recent inventory has determined that [a portion of or the entire] water pipe (called a service line) that connects your [home, building, or other structure] to the water main is made from lead.

#### Health effects of lead.

Remove Instructions Before Sending: This section "Health effects of lead" must be kept as is without any changes as required by the LCRR I

Required Language changes, as required by the LCRP 1 Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in 10 and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of yomen who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems.

#### Steps you can take to reduce exposure to lead in drinking water.

- Run your water to flush outlead. Lead levels increase over time as water sits in lead-ontaining plumbing materials. Before drinking or cooking with your water after it has sat overnight or longer, flush your home pipes by running water through the kitchen faucet, taking a shower, or doing any other non-consumptive water usage. Run the water for at least 1 minute or until after it turns cold. The amount of time to run the water will depend on whether your home has a lead service line or not, as well as the length and diameter of the service line and the amount of plumbing in your home. [Areas prone to drought or currently experiencing searcity of water may want to omit or edit this recommendation.]
- Use only cold, fresh water for drinking, cooking, and preparing baby formula. Run the water for at least 1 minute or until after it turns cold.
- Do not boil water to remove lead. Boiling water does not remove lead.
- Clean your aerator.Regularly clean your fauce's screen (also known as an aerator). Sediment, debris, an lead particles can collect in your aerator. Lead particles can release lead into your water. See how to clean your aerator at important-resources-for-safe-drinking-water.pdf (epa.gov).
- Use your filter properly, if you use a filter . Filters can reduce lead in drinking water. Make sure it is
  certified by NSF to remove lead it will say so on the package. Follow directions to properly install, use,
  and replace your filter. Do not run hot water through the filter. For more information,
   and which
  certifications to look for, visit EPA 's website at
   <u>https://www.epa.gov/water-research/consumer-tool-</u>
  identifying-point-use-and-pitcher-filters-certified-reduce-lead.
- · Identify and replace plumbing fixtures containing lead and any copper piping with lead solder.
- Have your child's blood tested for lead. Children are a higher risk group of the health effects of lead. If
  you would like to have your child tested, you may contact your health care provider, or local state health
  department here: Idealth Department Contact Information

Have your water tested for lead. You cannot see, taste or smell lead in drinking water Contact our system for more information about lead in your drinking water and how to get your water tested by a state certified laboratory. See the list of labs here: <u>Certified Laboratory Search Results (https://www.mass.gov/howto/find-a</u> <u>certified-laboratory-for-water-testing</u>)

#### **Opportunities to Replace Lead Service Lines**

[Optional: [System] has developed/is developing a Lead Service Line Replacement Program with the goal of removing all the lead service lines in the water system. [If applicable: choose one of the following statements: (1) Consumers may obtain a copy of [System] Service Line Replacement Plan by contacting our system at: [Contact Information], OR (2) Consumers may view the [System] Service Line Replacement Plan at this website: [Website Information]]

Explain here who is responsible for replacing the service line and your recommendation. For example: If System Owns Part of the Service Line:

[System] intends to replace the portion of the service line under [System] ownership; while replacing this line, we offer to replace the homeowner's portion of the service line at the homeowner's expense or without cost. If you as the homeowner do not replace your portion of the service line, you may experience a temporary increase in lead levels in your drinking water; we strongly recommend having your portion of the service line replaced when [System] replaces the service line portion under [System] ownership.]

If you are planning on replacing the portion of the service line that you own, please notify us at [insert PWS contact information – phone, email, etc.].

#### **Financing for Homeowner Lead Service Line Replacement**

#### Select the applicable option

[If Applicable: System must include information about programs that provide financing solutions to assist homeowners with replacement of their portion of a lead or galvanized requiring replacement service line if consumer payment for a portion of the replacement is required by State or locallaw or a water tariff agreement.] For more information on financial assistance programs for service line replacement see [insert System LSLR help if applicable].

#### [If Applicable: Systems without financial programs

Please consider contacting your home insurance company regarding any information they may have on insurance solutions.]

For MassDEP information on Lead in Drinking Water seehttps://www.mass.gov/lead-in-drinking-water

[System] is required to replace its portion of a lead service line if the homeowner notifies [System] that they are replacing their portion of the lead service line.

Please notify [System] if you disagree with the service line material categorization in our service line inventory, using the contact information below.

For more information, contact [name of contact] at [phone number] or [mailing address or email address].

#### Contact Info

Plan

**Ownership** 

Financing

Private Side

Please share this information with all the other people who drink this water at this address, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by [system]. PWS ID#: [xxxxxxx]

Date distributed [date]

Distributed media type [insert type]

#### https://www.mass.gov/doc/lcrr-consumer-notification-template-confirmed-lead-service-line/download

https://www.mass.gov/doc/lcrr-consumer-notification-template-confirmed-galvanized-requiring-replacement-service-line-grr/download

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#### Required Topics



#### [System] DRINKING WATER NOTICE

#### Your home is served by a service line that may contain lead.

This notice contains important information about your drinking water. Have someone translate it for you or speak with someone who understands it.

#### Dear Customer,

Water systems are now required to document all water service line materials and identify **a**y lead or lead containing materials. Our most recent inventory has determined that [**a** portion of or the entire] water pipe (called a service line) that connects your [home, building, or other structure] to the water main are of **unknown material** classification. Unknown means that the service line could contain lead.

As a precaution, here is information on the health effects of lead and steps to reduce your exposure. Ifyour service line is confirmed as lead, [System] will share information on financial help to remove it and replace it with one made of a safer material.

#### Health effects of lead.

#### [Remove Instructions Before Sending: This section "Health effects of lead" must be kept as is without any changes, as required by the LCRI.]

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in 1Q and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems.

#### Until the material of your service line is confirmed and any lead is removed, use the following steps to reduce exposure to lead in drinking water.

- Run your water to flush out leadLead levels increase over time as water sits in leadcontaining plumbing
  materials. Before drinking or cooking with your water after it has sat overnight or longer, flush your home
  pipes by running water through the kitchen faucet, taking a shower, or doing any other non consumptive
  water usage. Run the water for at least 1 minute or until after it turns cold. The amount of time to run the
  water will depend on whether your home has a lead service line or not, as well as the length and diameter
  of the service line and the amount of plumbing in your home.
  [Areas prone to drought or currently
  experiencing scarcity of water may want to omit or edit this recommendation.]
- Use only cold, fresh water for drinking, cooking, and preparing baby formula. Run the water for at least 1 minute or until after it turns cold.
- Do not boil water to remove lead. Boiling water does not remove lead.
- Clean your acrator. Regularly clean your faucefs screen (also known as an acrator). Sediment, debris, an lead particles can collect in your acrator. Lead particles can release lead into your water. See how to clean your acrator at <u>important-resources-for-safe-drinking-water, pdf (epa.gov)</u>.
- Use your filter properly, if you use a filter . Filters can reduce lead in drinking water. Make sure it is
  certified by NSF to remove lead it will say so on the package. Follow directions to properly install, use,
  and replace your filter. Do not run hot water through the filter. For more information,
   and which
  certifications to look for, visit EPA 's website at <a href="https://www.epa.gov/water-research/consumer-toolidentifying-point-use-and-pitcher-filters-certified-reduce-lead">https://www.epa.gov/water-research/consumer-toolidentifying-point-use-and-pitcher-filters-certified-reduce-lead</a>.
- Identify and replace plumbing fixtures containing lead and any copper piping with lead solder.
- Have your child's blood tested for lead. Children are a higher risk group of the health effects of lead. If
  you would like to have your child tested, you may contact your health care provider, or local state health
  department here: [Health Department Contact Information].

Have your water tested for lead. You cannot see, taste or smell lead in drinking water Contact our system for more information about lead in your drinking water and how to get your water tested by a state certified laboratory. See the list of labs here: <u>Certified Laboratory Search Results (https://www.mass.gov/howto/find-acertified-laboratory-for-water-testing)</u>

#### Opportunities to Verify Lead Service Materials [PWS should include one of the options below, or a similar method]

(1) To verify the material of your service line, contact PWS at preferred contact method to schedule an inspection.

[2] The [System] Staff or its contractor may contact you to perform a service line material inspection, please utilize the MassDEP Lead Service Line Identification Toolpresented in the QR codes below to send your service line information to the [System] and to learn more about Lead in Drinking Water.



### **Templates: EPA Lead**

#### Notice of confirmed lead service line

<u>< Public Water System (PWS) name ></u> is focused on protecting the health of every household in our community. This notice contains important information about your drinking water. Please share this information with anyone who drinks and/or cooks using water at this property. In addition to people directly served at this property, this can include people in apartments, nursing homes, schools, businesses, as well as parents served by childcare at this property.

<u>< PWS name ></u> has determined that <u>< a portion of or the entire ></u> water pipe (called a service line) that connects your <u>< home, building, or other structure ></u> to the water main is made from lead. People living in homes with a lead service line may have an increased risk of exposure to lead from their drinking water.

Solution of the second seco



#### Required Language

#### Health effects of lead

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or worsen existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these negative health effects. Adults can have increased risks of heart disease, high blood pressure, and kidney, or nervous system problems.<sup>1</sup>

#### Steps you can take to reduce lead in drinking water.

Below are recommended actions that you may take, separately or in combination, if you are concerned about lead in your drinking water. The list also includes where you may find more information and is not intended to be a complete list or to imply that all actions equally reduce lead in drinking water.

Use your filter properly. Using a filter can reduce lead in drinking water. If you use a filter, it should be certified to remove lead. Read any directions provided with the filter to learn how to properly install, maintain, and use your cartridge and when to replace it. Using the cartridge after it has expired can make it less effective at removing lead. Do not run hot water through the filter. For more information on facts and advice on home water filtration systems, visit EPA's website at <a href="https://www.epa.gov/water-research/consumer-tool-identifying-point-use-and-pitcher-filters-certified-reduce-lead">https://www.epa.gov/water-research/consumer-tool-identifying-point-use-and-pitcher-filters-certified-reduce-lead</a>.

**Clean your aerator.** Regularly remove and clean your faucet's screen (also known as an aerator). Sediment, debris, and lead particles can collect in your aerator. If lead particles are caught in the aerator, lead can get into your water.

Use cold water. Do not use hot water from the tap for drinking, cooking, or making baby formula as lead dissolves more easily into hot water. Boiling water does not remove lead from water.

< Areas prone to drought or currently experiencing scarcity of water may want to omit or edit this recommendation. > Run your water. The more time water has been sitting in pipes providing water to your home, the more lead it may contain. Before drinking, flush your home's pipes by running the tap, taking a shower, doing laundry, or doing a load of dishes. The amount of time to run the water will depend on whether your home has a lead service line or not, as well as the length and diameter of the service line and the amount of plumbing in your home. [Include tailored flushing information, if appropriate, or add following language] Residents may contact us at [phone number and/or email address] for recommendations about flushing times in their community.

#### Required Topics

Learn about construction in your neighborhood. Contact us at [phone number and/or email address] to find out about any construction or maintenance work that could disturb your service line. Construction may cause more lead to be released from a lead service line or galvanized service line if present.

Have your water tested. Contact us, your water utility, at <<u>insert PWS contact information - phone</u>, <u>email, etc.></u> to have your water tested and to learn more about the lead levels in your drinking water. Alternatively, you may contact a certified laboratory to have your water tested for lead. A list of certified laboratories is available at <<u>provide location of list or explain your water system's testing program</u> <u>and any costs to customer if one exists></u>. Note, a water sample may not adequately capture or represent all sources of lead that may be present. For information on sources of lead that include service lines and interior plumbing, please visit <u>https://www.epa.gov/ground-water-and-drinking-</u> water/basic-information-about-lead-drinking-water#getinto.

#### Get your child tested to determine lead levels in their blood.

A family doctor or pediatrician can perform a blood test for lead and provide information about the health effects of lead. State, city, or county departments of health can also provide information about how you can have your child's blood tested for lead. The Centers for Disease Control and Prevention recommends public health actions when the level of lead in a child's blood is 3.5 micrograms per

### All three in one Link

https://www.epa.gov/system/files/documents/2024-07/notification-templates-for-known-or-potential-IsIs.docx

<sup>&</sup>lt;sup>1</sup> Text in italics is required and cannot be changed.



#### Notice of unknown service line material

Insert PWS Name> is focused on protecting the health of every household in our community. This notice contains important information about your drinking water. Please share this information with anyone who drinks and/or cooks using water at this property. In addition to people directly served at this property, this can include people in apartments, nursing homes, schools, businesses, as well as parents served by childcare at this property.

<<u>li>Insert PWS name></u> is working to identify service line materials throughout the water system and has determined that the water pipe (called a service line) that connects your <u><home, building, or other</u> <u>structure></u> to the water main is made from unknown material but may be lead. Because your service line material is unknown, there is the potential that some or all of the service line could be made of lead or galvanized pipe that was previously connected to lead. People living in homes with a lead or galvanized pipe previously connected to a lead service line have an increased risk of exposure to lead from their drinking water.



#### Identifying service line material

To help determine the material of your service line, please <u>contact PWS via phone, email and/or visit</u> <u>websites</u>. EPA has developed an online step-by-step guide to help people identify lead pipes in their homes called Protect Your Tap: A Quick Check for Lead. It is available at: <u>https://www.epa.gov/ground-</u> water-and-drinking-water/protect-your-tap-quick-check-lead.

#### Health effects of lead

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or worsen existing learning and behavior problems. The children of women who are exposed to



### All three in one Link



- Be sure to include important information about your <u>own</u> programs, and situation. Tell your story well
- Offer recipient something positive to do
  - Help confirm inventory
  - Schedule LSL replacement
  - Take action to reduce risk until replacement









### **Multi-Family Homes and DEP Q&A**

- Notifications for Multi-Family Dwellings
  - Owner to notify all residents individually OR
  - Post notification in visible location
  - PWS to request verification



- DEP Q&A
  - Lots of useful Information
  - Links to templates

https://www.mass.gov/doc/frequently-asked-questions-about-the-lead-and-copper-rule-revisions-lcrr/download



- How do you know what my service line is made of?
- I think the information is wrong!
- Why didn't I get a letter?



### https://www.fairfaxwater.org/news/did-youreceive-letter-fairfax-water-about-your-waterservice-line

Letters will be mailed mid-late October. If you do not receive a letter, it may be for one of the following reasons:

- Your service line was installed in 1979 or later, in which case it is designated as non-lead since it was installed after the ban on lead pipes
- You filled out our online survey and identified that your service line is non-lead
- Fairfax Water was able to obtain records on the material of your service line, and those records show that it is non-lead



## Service Line Inventory What's On Your Website?

Claudia Baptista Project Manager, Community Support



It's complete! Now What?

"Publicly Available" Requirements

Communication / Transparency

Continued Improvement: "Initial" to "Baseline" Inventory

Community Example



### ALL SYSTEMS MUST MAKE THE INVENTORY AVAILABLE TO THE PUBLIC

- Full Accounting of Services Using: List, Table, or Map with Location Identifier
- Required data for each Service Line Materials on both sides (public and private)



- Every system make available to the public
  - Systems greater than <u>50,000</u> must post inventory online
- Every system Information on Inventory in CCR
- "No lead" certification alternative if no LSL, GRR or UNK



Built by Weston & Sampson Inc.



Service Line Inventory LIST

Lead Service Report						
Street Number	Street Name	Size	Material			
213						
0	Aberdeen Avenue	2"	Copper			
16	Aberdeen Avenue	1"	Copper			
20-22	Aberdeen Avenue	1"	Copper			
24-26	Aberdeen Avenue	1"	Copper			

	А	В	C	D
1	LOCATIONAL IDENTIFIER	CURRENT PUBLIC SERVICE LINE MATERIAL	CURRENT PRIVATE SERVICE LINE MATERIAL	ENTIRE SERVICE LINE CLASSIFICATION
15470	104 WOODSTOCK ST	С	С	NON-LEAD
15471	98-100 WOODSTOCK ST	С	С	NON-LEAD
15472	11 WOODS AVE #2	В	В	NON-LEAD
15473	12-14 WOODS AVE	C	С	NON-LEAD
15474	15-17 WOODS AVE	L	L	LEAD



### Website should include:

- Service Line Inventory (SLI)
- Contact information
- Plans for Improvements
- Goal for complete LSL Replacement: 2032
- Prioritization plan
- FAQ's

### Protecting Public Health, Building Community Trust



## Consider: Dashboard / Work Areas

80.109 40.388 Degrees





Braddock

West Homestead

Munhall

PSU Office of Physical Plant, data.pa.gov, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies,

Water Service Line Material- Public / Private

Lead / Lead
 Lead / Non-Lead
 Lead / Galvanized Iron

Lead / No Data
 Galvanized Iron / Galvanized Iron

Galvanized Iron / Non-Lead

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Lead Service Line Dashboard

#### LEAD REDUCTION PROGRAM

**KEY METRICS** 

DENVER WATER





The information presented in the dashboard should be used for program management reporting. Regulatory reporting requires additional data review and update prior to the time of submittal.

<sup>1</sup> Denver Water must replace LSLs at the same or greater rate in disproportionately impacted communities than the overall program rate on a cumulative rolling average basis. Disproportionally impacted communities are those at risk of experiencing more adverse environmental or health impacts as determined by the U.S. EPA's Environmental Justice Screening and Mapping tool (epa.gov/ejscreen).


### **Educational Resources**



#### Lead and Your Health

#### Why is lead a problem?

Learn more

Lead can affect almost every organ and system in your body. Young children and infants are particularly vulnerable to lead. A dose of lead that would have little effect on an adult can have a significant effect on a child.

#### How does lead get into drinking water?

Lead can enter drinking water when pipes and plumbing fixtures that contain lead corrode, especially where the water has high acidity or low mineral content.



#### What is a service line?

The service line connects the water main to the property. The water utility owns the utility owned portion of the service line and the customer owns the customer owned portion of the service line.

Learn more about Lead Service Lines from the EPA



# From Initial Inventory to Baseline Inventory

Claudia Baptista Project Manager, Community Support





**Impact of Unknowns on Replacement Planning** 

#### 1. No Unknowns

Replacements Per Year	600
Rate	20%
Total Replacement Pool	3,000
GRR	1.000
Lead	2,000

#### 2. Unknowns = Lead

Lead	2,000
GRR	1,000
Unknown	3,000
Total Replacement Pool	6,000
Rate	20%
Replacements Per Year	1,200

- 20% Rate = 5 year goal (2027 2032)
- No credit for partial replacements
- Verification of unknown to non-lead does not count
- Updated annually for verified unknowns

## WORK ON THE UNKNOWNS!!!

**Impact of Unknowns on Replacement Planning** 

#### 3. Unknowns Greater than Lead



Too many unknowns = unachievable replacement rates

## WORK ON THE UNKNOWNS!!!



Customer Self-Identification
Visual Inspection
Scrape Test
Magnet Test
Water Quality
Potholing
Full Test Pit Excavation







#### LCRI requires a verification survey



### **Customer Self-Identification**

#### **CITY OF MALDEN**

#### WATER SERVICE LINE CUSTOMER SURVEY

Please scan the QR code to complete the online survey. Por favor, escanee el código QR para completar la encuesta en línea. Por favor, digitalize o código QR para completar a pesquisa online. Tanpri skane kòd QR la pou ranpli sondaj la sou entènèt.

请扫描 QR 码以完成在线调查。

請掃描 QR 碼以完成網上調查

Vui lòng quét mã QR để hoàn thành cuộc khảo sát trực tuyến. لاستكمال الاستبيان عبر الإنترنت QR من فضلك، قم بمسح الرمز الاستجابى



The survey will have instructions about how to identify lead service pipes and information about how this data will be used.

#### **NEED HELP?**

We are available to help complete the survey or answer any questions you may have. Call Fuss & O'Neill, the City's Engineering consultant, at (973)-525-9094; Monday through Friday: 9am-4pm

To set up an appointment for someone to perform the survey in person, please scan the QR code below. (Note you must be present and on property during the appointment.)



#### ¿NECESITA AYUDA?

Estamos disponibles para ayudarle a completar la encuesta o responder cualquier pregunta que pueda tener. Llame a Fuss & O'Neill, el consultor de ingeniería de la Ciudad, al (973)-525-9094; de lunes a viernes de 9 a. m. a 4 p. m.

#### Default language

#### Water Service Line Material Survey



Please complete the form to submit the material of your water service line.

#### Translation Information 💌

#### To change the language of this survey, click the button above



Full Name\*



### **Customer Self-Identification: MassDEP**

## HELP YOUR COMMUNITY WATER SUPPLIER!

WHA:

Your Public Water Supplier is updating their records on service lines- pipes that bring water to your house.

You can help by submitting photos of the pipe in your residence!

In order to identify pipes that may need to be replaced.

Go to https://tinyurl.com/MA-LSLI-App and follow the instructions.

https://www.mass.gov/doc/lcrr-service-line-inventory-public-outreach-toolkit/download





### **Customer Self-Identification: EPA or YouTube**

EPA: Protect Your Tap - <u>www.epa.gov/pyt</u>

	Search EPA.gov	Q		
Environmental Topics $\checkmark$	Laws & Regulations $\checkmark$	Report a Violation $\checkmark$	About EPA 🗸	
Ground Water and Dr	inking Water			CONTACT US
Ground Water and Drinking Water Home	Protect Y	Your Tap: A	A Quick Cl	heck
Basic Information	for Lead			
Private Wells	View this guide in <u>Span</u>	<u>ish</u> or <u>Portuguese</u> .		

 Video from New York DOH <u>www.youtube.com/watch?v=PcO5FCE9Vfw</u>
 How to Find Out if You Have a Lead Water Service Line

> Here's how you can use common household items to find out

▶ ♦ 0:02 / 2:25

# Water Service Line Inventory: Galvanized Services Requiring Replacement (GRR)

City of Framingham Water & Wastewater Division

Stephanie Tarves, P.E. – Senior Water & Wastewater Engineer



What is a galvanized service requiring replacement?



EPA: A galvanized pipe is considered Galvanized Requiring Replacement (GRR) if it <u>IS</u> or <u>WAS</u> downstream of a lead service line or a galvanized service line preceded by a service with an unknown lead status.

Are all galvanized pipes GRR? NO.

Do lead goosenecks "count" as upstream lead? NO.

> Our records show a public side service that was lead at one time, but isn't now, and the private side is still galvanized, is it a GRR? MAYBE...Let's get into it.

## Initial Inventory Results : 71 GRR (August 2024 draft)



# Framingham has no known lead services.

#### Our GRR are:

- Galvanized services that were once downstream of lead
- Galvanized services that may have been downstream of lead
- Galvanized services downstream of public service lines with unknown material

D	E	F	G	н	1	J	К	L	м
CONNECTOR GOOSENECK / PIGTAIL) CURRENTLY PRESENT?	CONNECTOR (GOOSENECK /PIGTAIL) MATERIAL	CURRENT PUBLIC SERVICE LINE MATERIAL	WAS PUBLIC SERVICE LINE MATERIAL EVER PREVIOUSLY LEAD?	PUBLIC SERVICE LINE SIZE (inches)	PUBLIC SERVICE LINE INSTALL DATE (YYYY)	CURRENT PRIVATE SERVICE LINE MATERIAL	PRIVATE SERVICE LINE SIZE (inches)	PRIVATE SERVICE LINE INSTALL DATE (YYYY)	ENTIRE SERVICE LINE CLASSIFICATION
<b>T</b>	<b>•</b>	<b>.</b>	<b>•</b>	<b>_</b>	-	-	-	<b>*</b>	Τ.
UNK		UNK-LG	YES			G	1"		GALVANIZED REQUIRING REPLACEMENT
UNK		UNK-LG	UNK	←		G	1"		GALVANIZED REQUIRING REPLACEMENT
UNK		UNK-LG	UNK			G	1/2"		GALVANIZED REQUIRING REPLACEMENT
UNK		UNK-LG	YES	<		G	1"		GALVANIZED REQUIRING REPLACEMENT
UNK		UNK-LG	UNK			G	2"		GALVANIZED REQUIRING REPLACEMENT
UNK		UNK-LG	UNK	◄		G	2"		GALVANIZED REQUIRING REPLACEMENT
UNK		UNK-LG	UNK			G	2"		GALVANIZED REQUIRING REPLACEMENT

# Data Scrubbing: Eliminating GRR through administrative review



# Why is this service GRR?

- Public service line material?
- Lead gooseneck
- Previously lead?

D	E	F	G	н		L L	K	L	м
CONNECTOR (GOOSENECK / PIGTAIL) CURRENTLY PRESENT?	CONNECTOR (GOOSENECK /PIGTAIL) MATERIAL	CURRENT PUBLIC SERVICE LINE MATERIAL	WAS PUBLIC SERVICE LINE MATERIAL EVER PREVIOUSLY LEAD?	PUBLIC SERVICE LINE SIZE (inches)	PUBLIC SERVICE LINE INSTALL DATE (YYYY)	CURRENT PRIVATE SERVICE LINE MATERIAL	PRIVATE SERVICE LINE SIZE (inches)	PRIVATE SERVICE LINE INSTALL DATE (YYYY)	ENTIRE SERVICE LINE CLASSIFICATION
YES	L	G	UNK	3/4"	1927	G	3/4"	1927	GALVANIZED REQUIRING REPLACEMENT
NO	Ī	PVC		1"	1998	G	3/4"	1910	GALVANIZED REQUIRING REPLACEMENT
NO		PVC	UNK	1"	1998	G	3/4"	1892	GALVANIZED REQUIRING REPLACEMENT
NO		С	UNK	1"	2010	G	1 1/2"	1924	GALVANIZED REQUIRING REPLACEMENT
NO		с	UNK	1"	2012	G	3/4"	1907	GALVANIZED REQUIRING REPLACEMENT
YES	L	CI-L	UNK	1"	1962	G	1"	1924	GALVANIZED REQUIRING REPLACEMENT
NO		с	UNK	1"	2013	G	3/4"	1926	GALVANIZED REQUIRING

#### We must answer "Was Public Service Line Material Ever Previously Lead?" accurately.

## Was it GRR?





Was this service previously lead? YES. Is it GRR? YES. The private side galvanized iron from 1886 was installed <u>BEFORE</u> the lead public side service was replaced in 1906, so this would be GRR.

## Was it GRR?





Was this service previously lead? YES. Is it GRR? NO.

The private and public sides were both replaced on June 18, 1927. This galvanized private side pipe was never downstream of lead.

## Final Inventory Results: 60 GRR (October 2024)



Rather than answering: "Was public service line material ever previously lead?"

		F				J			м
CONNECTOR (GOOSENECK / PIGTAIL) CURRENTLY PRESENT?	CONNECTOR (GOOSENECK /PIGTAIL) MATERIAL	CURRENT PUBLIC SERVICE LINE MATERIAL	WAS PUBLIC SERVICE LINE MATERIAL EVER PREVIOUSLY LEAD?	PUBLIC SERVICE LINE SIZE (inches)	PUBLIC SERVICE LINE INSTALL DATE (YYYY)	CURRENT PRIVATE SERVICE LINE MATERIAL	PRIVATE SERVICE LINE SIZE (inches)	PRIVATE SERVICE LINE INSTALL DATE (YYYY)	ENTIRE SERVICE LINE CLASSIFICATION
YES	L	G	NO	1 1/4"	1926	G	1 1/4"	1926	NON-LEAD
YES	L	G	NO	OTH	1891	G	1"	1891	NON-LEAD
NO		С	NO	1"	2011	G	1"	1924	NON-LEAD
YES	L	CI-L	NO	1"	1933	G	1"	1933	NON-LEAD
YES	L	G	NO	3/4"	1925	G	3/4"	1925	NON-LEAD
YES	L	G	NO	3/4"	1926	G	3/4"	1926	NON-LEAD
YES	L	G	NO	1 1/4"	1923	G	1 1/4"	1923	NON-LEAD
NO		PVC	NO	1"	1994	G	1 1/4"	1924	NON-LEAD
NO		HDPE	NO	1"	1998	G	3/4"	1925	NON-LEAD
YES	L	G	NO	1"	1970	G	1"	1970	NON-LEAD
YES	L	G	NO	1"	1924	G	1"	1924	NON-LEAD
YES	L	CI-L	NO	1"	1958	G	3/4"	1925	NON-LEAD
YES	L	G	NO	3/4"	1935	G	3/4"	1935	NON-LEAD
NO		С	NO	1"	2005	G	3/4"	1911	NON-LEAD
YES	L	G	NO	3/4"	1922	G	3/4"	1922	NON-LEAD
YES	L	G	NO	3/4"	1923	G	3/4"	1923	NON-LEAD
YES	L	G	NO	3/4"	1925	G	3/4"	1925	NON-LEAD
NO		С	NO	1"	2013	G	5/8"	1915	NON-LEAD

#### We answered: "Was this galvanized pipe ever downstream of a lead service?"



# Thank You. Questions?

Stephanie Tarves, P.E.

Senior Water & Wastewater Engineer

Framingham Water & Wastewater Division

starves@framinghamma.gov

(508) 532-6050

100 Western Avenue, Framingham



# New 24-Hour Public Notice for Any System over the Lead Action Level

## **Effective for All Systems Now**

Stephen Estes-Smargiassi Director of Planning and Sustainability



- If a community 90<sup>th</sup> percentile is over the Action Level:
  - 24-hour public notice using newspaper and other media
  - New template for notice *focus is on LSL*
- Recommend discussing with town officials and preparing in advance
- Timing trigger is completion of all lab results, but could still be a surprise
- MWRA available to assist with notice and follow up activities
  - Still need to do mailed public education brochure (also new)

## WATER DEPARTMENT DRINKING WATER NOTICE: Some homes have high levels of lead This notice contains important information about your drinking water. Have someone translate it for you or speak with someone who understands it.



**BE Prepared, Before PN is Needed** 

- Public Notice Language must be approved by MassDEP prior to use
- Outreach methods must be approved <u>prior</u> to notice:
  - Radio or Television
  - Reverse 911
  - Hand or direct delivery
  - Posting in conspicuous locations
- Tell your story "we are dealing with this"
- Publication and outreach within 24 hours of receiving final 90<sup>th</sup> results
- Emailed to <a href="mailto:LeadALE@EPA.gov">LeadALE@EPA.gov</a>
- Publication in local paper as advertisement within 14 days as well
- <u>www.mass.gov/doc/pn-tier-1-template-lead-action-level-</u> <u>exceedance/download</u>



## It's All About the Lead Service Lines

## Stephen Estes-Smargiassi Director of Planning and Sustainability



- Where they exist, LSL are the single largest source of lead in water
- The new rules require that we sample in those homes with LSL
- First and fifth liter sampling will drive results upward
- Lead Action Level will drop from 15 ppb to 10 ppb
- Systems that exceed the lead AL, must re-optimize corrosion control





Year	2018	2019	2020	2021	2022	2023
90th Percentile Full system	10	8	6	9	7	11
90th Percentile Just LSL	12	11	8	13	9	14
90th Percentile Just Lead Solder	3	3	2	3	2	3

Red shows results over new Action Level of 10 ppb (effective 10/27) Five bottle sampling will tend to increase reported lead levels



- New 5-Bottle Sampling Procedure for Homes with LSL starting in 2028
- EPA believes that a 5<sup>th</sup> liter sample will better characterize water in the LSL
  - 1. Provide owner with 5 1-liter bottles.
  - 2. After stagnation period of at least 6 hours, bottles should be filled in sequence (1 through 5) with tap running
  - 3. Bottles No. 1 and 5 will be analyzed
  - 4. Higher of two included in 90<sup>th</sup> Percentile







- If MWRA exceeds the lead Action Level, we must re-optimize corrosion control treatment
  - Most likely option is adding orthophosphate
- Estimated capital and operating costs \$60 to \$80 million (current \$)
- LCRI offers an option to accelerate lead service line replacement rather than change corrosion control treatment
  - Replace all LSL within 5 years at 20% per year (done by 2032)
  - Defer action on treatment changes while in process
- Protect public health and <u>eliminate</u> the problem, rather than just add another chemical to our drinking water

## Set goal of complete elimination by October 2032





- Current estimates are that there are at around 15,400 LSLs (2.9%)
  - Will update numbers when all inventories available
- Only get credit if all of the LSLs and GRRs are replaced.
- Private side replacement required, but can be difficult to get participation



# Lead Loan Program to Lead Replacement Program (LLP to LRP)

David Granados

Program Manager, LSLR Program, Community Support



### MWRA Lead Loan Program

- Launched in 2016 \$100 Million for community projects
- 10 year interest-free loans
- Must replace **ALL** lead pipe within a service line **BOTH** public and private portions
- If any portion of service is lead or brass, entire service is eligible for replacement
- \$43.8 Million distributed to 17 communities
- MWRA's water programs have funded more than 7,900 LSL replacements & 1,400 lead gooseneck replacements





### **Revisions to the Program**

- The Board of Directors authorize the inclusion of a 25% grant and addition of \$100 million to program
- Fully funded removal of private side will be required for grant/loan. Communities that do not fully fund the private side can still apply for 0% interest loan
- Eligible projects LSL replacements, Investigations, Consulting Services, Public Education, Filters.



Enough to get the job done



### **Process Remains the Same**

- Application to MWRA for Lead Program (include a copy of most up to date inventory)
- Community Authorization (via Town Meeting or City Council Vote). Include language for grant.
- Community Executes Financial Assistance and Loan Agreements
- Bond Counsel Issues Bond
- Distribution of Funds to a \*new\*
   Community MMDT Account
- Community Utilizes Funds for Project



# Commu

## Community Support Program Website

Massachusetts Water About Your Our Projects & Your **MWRA** Resources Authority Water System Sewer System Environment Programs Projects • Major Programs Home > Projects & Programs > Major Programs > Leac Metropolitan Water Tunnel Program **Projects & Programs** School Program Lead Service Line Replaceme Water & Wastewater System Expansion **Public Affairs** Projects In 2016, on recommendation from the MWRA Advisory Board, th Wastewater Covid-19 Tracking Directors approved an enhancement to the Local Water System Major Programs provide up to \$100 million in 10-year zero-interest loans to com Local I/I Community Financial to fully replace lead service lines. Each community will develop i Metropolitan Water Tunnel Program Assistance their local circumstances. Water & Wastewater System Expansion Local Water System Assistance In 2024, the Board of Directors approved an additional \$100 mil included a twenty-five (25%) grant component for communi Lead Service Line Replacement Wastewater Covid-19 Tracking and replacement of the portion of the lead service line of privat Program Local I/I Community Financial MWRA's goal in providing financial assistance to member comm Assistance water systems so that the high quality water MWRA delivers can make it all the way to consumers' taps. The presence of a lead service line connecting a home to the main in the Local Water System Assistance street can lead to elevated lead levels in tap water, especially if that water sits stagnant for an extended period. MWRA's stable water guality and effective corrosion control treatment reduce the risk that a lead service line will cause elevated lead levels; measured lead levels Lead Service Line Replacement Program in high risk homes have decreased by 90 percent since corrosion control was brought online in 1996. However, the risk of elevated levels remains as long as lead service lines are in use. School Program **Public Affairs** Guidelines Application Map and Contact Information https://www.mwra.com/projects-programs/major-program

https://www.mwra.com/projects-programs/major-programs/lead-service-line-replacement-program

#### **MWRA Lead Contacts**

David Granados <u>david.granados@mwra.com</u> 617-749-6528 Kristen Hall <u>Kristen.hall@mwra.com</u>



## Contact me anytime, but not until next week..





## **Best Practice is Practice for Compliance**

# What Should We Be Doing to Prepare?

Stephen Estes-Smargiassi



#### Who Needs a LSL Replacement Plan?

All water systems with one or more lead, galvanized requiring replacement, or lead status unknown service lines in their distribution system must submit a LSLR Plan.

#### When Must the LSL Replacement Plan be Submitted?

By October 2027

If using SRF, MassDEP requires a LSLR Plan



#### What must be included the Replacement Plan?


Prioritize most Vulnerable and Disadvantaged Communities



## **Priority Setting – Improve Program Efficiency**

Areas where all Service Lines are of unknown material

Areas where water mains replacements are planned or conducted

Previous participation in Lead and Copper Sampling

Age of current water mains

Proximity to other known contaminants

Road moratorium

Areas where all residents have agreed to participate



At least 45 days notification to owner and resident prior to work

- Include temporary increased lead levels, health effects of lead and actions to reduce exposure
- Information about service line flushing
- ANSI certified Pitcher Filters or POU devices and 6 months of cartridges replacements
- Offer sample: Between 3 and 6 months after completion

Notification, Flushing, Filters, and Sample

**RECORD KEEPING** 



Partial Replacements by Owner, actions required after 2027

#### By Homeowner:



#### After 2027:

Notify owner and resident within 24 hours of the completion of the replacement (ideally before SL is returned to service)

- Include temporary increased lead levels, health effects of lead and actions to reduce exposure
- Information about service line flushing
- ANSI certified Pitcher Filters or POU devices and 6 months of cartridges replacements
- Offer Sample: Between 3 and 6 months after completion

### Notification, Flushing, Filters, and Sample







# **RECORD KEEPING**

# Replacement and Disturbance Actions, Required after 2027

#### **Minor disturbance**

 (i.e. test pit, loss of pressure, curb or corp valve operation)

### **Major disturbance**

 (i.e. Gooseneck replacement, meter replacement)

#### **LSLR**

 (i.e. Partial or full lead service line replacement)



Lead Education and Flushing Info

Certified Filter + Cartridges







Offer sample 3-6 months later

### **Responses to Disturbances, required after 2027**



and Sample



- Flush water from an outside connection from the house side of the meter installation immediately after replacing the LSL
- Replace the meter with a straight pipe.
- Flush at full velocity for 10 minutes.
- Reconnect meter.



Source: ANSI/AWWA Standard C810-17 Replacement and Flushing of Lead Service Lines



- 1. Locate ALL faucets that will drain.
- 2. Remove aerators and screens (include laundry tubs, bathtubs, and showers)
- 3. Open the cold water valves to the full extent of all faucets in the lowest floor in the house.
- 4. Open faucets on the next highest floor until all faucets are opened.
- 5. Leave the water running for 30 minutes.
- 6. Close the faucet first opened and continue in the same ordered they were opened.
- 7. Replace aerators/screens.



Flushing should be done at least once every 2 weeks for 3 months Additional daily mini-flushes (when water has been sitting for 6 hours) for 5 minutes



- Official start of 5-year cycle is October 2027
- Offer sampling to 20% per year
  - Schools 5 samples each
  - Childcare 2 samples each
- You will get credit for the work already done
- Some systems starting early
- MWRA will do laboratory analysis







- All of these requirements are essentially "best practice"
- Consider implementing them early
- Develop all the documentation processes early
- Practice now will increase your ability to comply later



- Sampling Plans Must be Verified
  - EPA audits have found sampling plans with inaccurate site designations
  - Sites identified as LSL, but
    - Never were lead, or have been since been replaced
  - If your plan says a site is a LSL, <u>verify</u> that it is!
  - Do not sample at a site that is incorrectly identified use an alternate
- Mis-identification has resulted in monitoring violations





- Failure to <u>meet</u> reporting deadlines OR to be able to <u>prove</u> that you did meet them
- Need to keep track of when data is received, and what actions are required and when
  - This will be even more important with LCRI
- Need to develop contemporaneous records of actions, and keep them (for up to 12 years)
- Need to date letters, and document phone calls
- This resulted in several violations for communities in some cases, even though they had done the work on time

# **Questions or Comments?**

Lisa Bina– Deputy Director of Waterworks

# Drink with Confidence Flush with Pride

This presentation represents the opinions of the authors and not necessarily those of the MWRA



# America's Water Infrastructure Act Update Requirements

# Has it Really Been Five years Already?!

Michael O'Keefe Senior Program Manager



- Seems like just yesterday that we certified compliance with AWIA:
  - Risk and Resiliency Assessments, and
  - Emergency Response Plan requirements
- Risk and Resiliency Assessments must be updated and certified again by:
  - More than 100K population -- March 31, 2025
  - 50K to 100K December 31, 2025
  - 3,300 to 50K June 30, 2026
- Emergency Response Plans must be updated and certified again by:
  - 6 months after RRA certification



- Include your name, affiliation and email address in chat
- TCH Certificates will be mailed out within a few weeks

• We will send out the slides after the forum as well



Massachusetts Water Resources Authority

# Before you go...

# **Review Questions**

**From Inventory to Implementation:** Lead and Copper Rule Community Forum



# 1) Which of these is required to get a letter with risk information?

- A. Buildings with lead service lines
- B. Buildings with galvanized service lines requiring replacement
- C. Buildings where one or both sides of the service line are of unknown materials
- D. All of these



# 2) Who should be receiving letters based on the service line inventory?

- A. Bill paying customers
- B. All residents served by that service line
- C. Landlords for posting
- D. All of the above



### 3) When are letters to customers and residents due?

- A. October 16, 2027
- B. January 1, 2025
- C. November 15, 2024
- D. What letters?



4) What is the MWRA recommended goal for complete LSL replacement?

- A. October 2027
- B. End of 2032
- C. October 2037
- D. As soon as possible, but no later than 2032

# Thank You

# Drink with Confidence Flush with Pride

This presentation represents the opinions of the authors and not necessarily those of the MWRA



### **SUMMARY OF LINKS**

#### MassDEP

**TEMPLATES** 

Lead Service Line Notice

https://www.mass.gov/doc/lcrr-consumer-notification-template-confirmed-lead-service-line/download

Galvanized Requiring Replacement Service Line Notice

https://www.mass.gov/doc/lcrr-consumer-notification-template-confirmed-galvanized-requiring-replacement-service-line-grr/download

• Unknown Service Line Notice

https://www.mass.gov/doc/lcrr-consumer-notification-template-unknown-service-line/download

LCRR FAQs

https://www.mass.gov/doc/frequently-asked-questions-about-the-lead-and-copper-rule-revisions-lcrr/download

Public Outreach Toolkit

https://www.mass.gov/doc/lcrr-service-line-inventory-public-outreach-toolkit/download

#### **EPA**

TEMPLATES:

https://www.epa.gov/system/files/documents/2024-07/notification-templates-for-known-or-potential-lsls.docx

Protect Your Tap

www.epa.gov/pyt

Fairfax Water <u>https://www.fairfaxwater.org/news/did-you-receive-letter-fairfax-water-about-your-water-service-line</u>

Pittsburgh Water and Sewer Authority https://www.pgh2o.com/projects-maintenance/lead-line-replacement-programs

Denver Water https://www.denverwater.org/your-water/water-quality/lead/dashboard

New York DOH <a href="http://www.youtube.com/watch?v=PcO5FCE9Vfw">www.youtube.com/watch?v=PcO5FCE9Vfw</a>

### **OTHER RESOURCES**

#### **MassDEP**

• All Lead & Copper Forms & Templates

https://www.mass.gov/lists/lead-copper-forms-and-templates

• Q and A from October 9, 2024 training

https://www.mass.gov/doc/lcrr-october-9-2024-training-qa/download

• Public Inventory Guidance

https://www.mass.gov/doc/guidance-how-pws-can-make-their-service-line-inventories-accessible-to-the-public/download

• LSL Planning SRF Grant

https://www.mass.gov/info-details/lead-service-line-planning-

program?\_gl=1\*1ovqbc5\*\_ga\*ODE0MTQ4NDM1LjE2NzUxODAxOTI.\*\_ga\_MCLPEGW7WM\*MTY5NTE0NjQ1Ny4yLjAuMTY5NTE

- <u>0NjQ1Ny4wLjAuMA..</u>
- LSLR Plan Summary

https://app.smartsheet.com/b/form/8f676b18cc224884a7069e3cc727f968

**Environmental Justice (EJ) DPH Tool** 

https://matracking.ehs.state.ma.us/Environmental-Data/ej-vulnerable-health/environmental-justice.html

#### Lead Service Line Replacement Collaborative

https://www.lslr-collaborative.org/proactive-notification-about-water-service-lines.html

**EPA** 

- Inventory Development/Maintenance Factsheet
  <u>https://www.epa.gov/system/files/documents/2023-06/EPA-Factsheet-Combined-06072023%20508-final.pdf</u>
- Protect your Tap
  <u>https://www.epa.gov/ground-water-and-drinking-water/protect-your-tap-quick-check-lead</u>