

## Missouri American Water's Approach

American Water's Program to

### **Reduce Potential Lead Exposure**

in Drinking Water

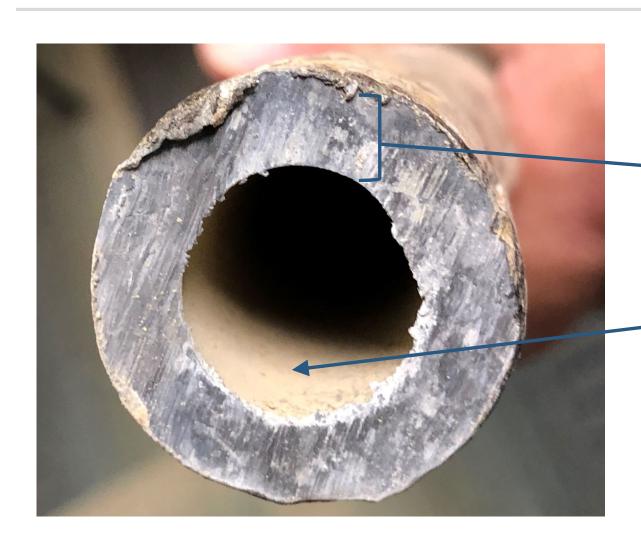


- Treat
- Monitor
- Find
- Replace
- **S** Flush
- **Educate**



**Customers are at the CENTER of What We Do** 

### **Lead Service Line Cross Section**



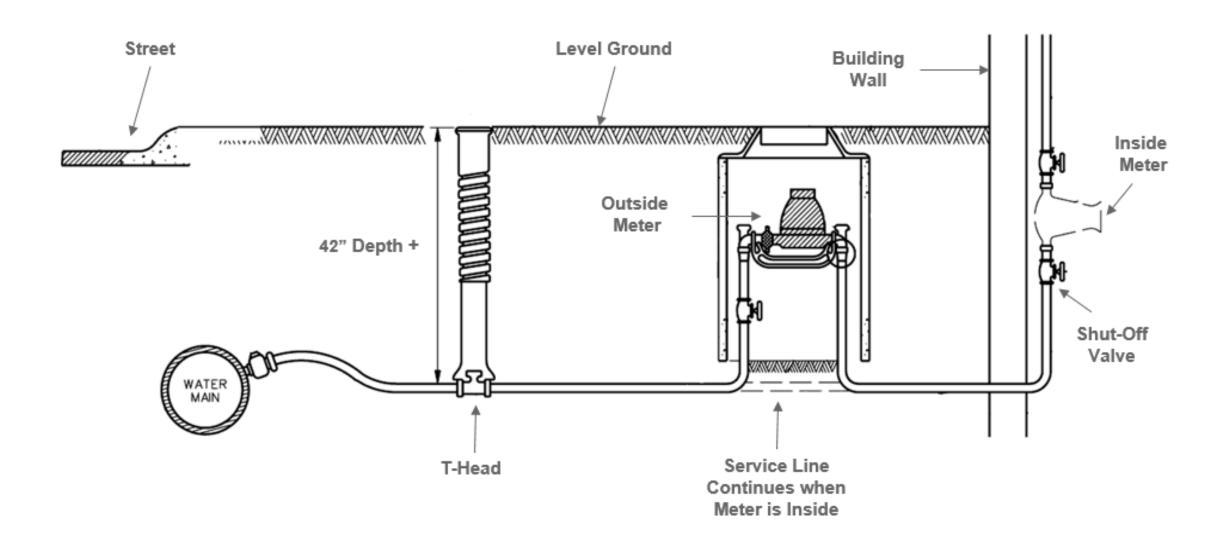
<u>Lead Service Line</u> – Water passing through lead pipes is a health risk for customers

<u>Lime Scaling</u> – Protects customers from lead exposure

## MAWC Lead Service Line Program Overview

- MAWC is replacing lead service lines when discovered during main replacement projects
- The potential presence of lead service lines is not part of MAWC's main replacement prioritization
- Through May 2019, we have deferred \$8.5 million to replace approximately 2,000 lead lines
  - Estimated 30,000 lead service lines in MAWC service areas statewide

## **Customer Service Line Components**



### **Customer Communications**

HERE'S WHAT TO EXPECT **LEAD WATER SERVICE LINE** MISSOURI REPLACEMENT American Water HAVE YOUR WE'LL WE'LL LET AGREE WE'LL WE'LL YOU KNOW TO HAVE PLUMBING. COLLECT The Customer elects for the Company to replace the Customer's lead water service line:  $\square$  CHECK LINE YOUR LINE. IF YOUR YOUR LEAD A WATER CHECKED. LINE IS SERVICE SAMPLE.

The undersigned customer(s), whose name(s) appear in the signature block at the bottom of this page (the "Customer") grants to Missouri-American Water Company (the "Company") and to its approved contractors and/or subcontractors a license to enter upon the Customer's property at the address shown below ("Property") for the purpose of connecting the Customer's residence to the Company water main adj

The Customer represents that the Customer is/are the sole owner(s) of the Property at the address shown above and has/

The term of this license shall be six (6) months following the date set forth below.

have sole authority to agree to this License.

The Company or its approved contractors and/or subcontractors will install a Customer connecting line from the Installation to the Customer's residence. The Customer connecting line is currently and will continue to be owned and maintained by

CUSTOMER ACKNOWLEDGES THAT IF ANY UPGRADES TO THE CUSTOMER'S INTERNAL PLUMBING ARE REQUIRED. IT WILL BE AT THE SOLE COST OF THE CUSTOMER. THIS INCLUDES, BUT IS NOT LIMITED TO, ANY REQUIREMENT BY A GOVERNMENTAL ENTITY TO MEET APPLICABLE PLUMBING CODE(S).

Upon completion of the work necessary to effect the new connection, the Company will restore the Customer's Property as nearly as practicable to its former condition. The Company warrants the workmanship of its installation of the Customer service line for a period of 12 months following the date set forth below, with the Company's liability limited to the cost of repairing or replacing the Customer service line

THE CUSTOMER ACKNOWLEDGES THAT THE CUSTOMER HAS RECEIVED THE "IMPORTANT NOTICE ABOUT YOUR WATER SERVICE AND LEAD" AND "LEAD" INFORMATION SHEETS PROVIDED BY THE COMPANY

IN CONSIDERATION FOR PERFORMING THE WORK TO INSTALL THE CLISTOMER SERVICE LINE AT THE COMPANY'S COST AND THE COMPANY'S AGREEMENT TO PROVIDE A 12-MONTH LIMITED WORKMANSHIP WARRANTY, THE CUSTOMER AGREES TO INDEMNIFY, RELEASE AND HOLD HARMLESS THE COMPANY AND ITS AFFILIATES AND AGENTS FROM AND AGAINST ALL CLAIMS, LIABILITY AND COSTS ("CLAIMS") RESULTING FROM ACTS AND OMISSIONS OF THE COMPANY AND/OR ITS APPROVED SUBCONTRACTORS IN INSTALLING THE CUSTOMER SERVICE LINE

DI EASE DETLIDA TO:

Signature	Signature	
Print Name	Print Name	
Date	Date	
Email	Email	
Phone	Phone	
MISSOURI-AMERICAN WATER COMPANY		
Signature	Print Name	
Date	Phone	

MO.STL.SLR.4 04-2018



Basic information about lead, the steps we take

along with tips on what you can do—to reduce the potential for lead

plumbing fixtures like faucets, valves and solder can contain small

RESOURCES

USEPA's Safe

National Lead

**Drinking Water Hotline** 

Center: 1-800-424-LEAD

#### TODAY, WE REPLACED THE FOR MORE FOLLOWING AT YOUR PROPERTY BECAUSE IT CONTAINED LEAD:

Customer-owned portion of the service line Other Your household plumbing will need to be flushed loose during construction, in case it contains

Utility-Owned Shut Off Water Main Valve

#### PLEASE TAKE THE FOLLOWING STEPS TO MINIMIZE YOUR EXPOSURE TO ANY SCALE THAT MAY HAVE BEEN RELEASED.

**FLUSHING INSTRUCTIONS** 

IMMEDIATE WHOLE HOUSE FLUSH

Flush your household plumbing REFORE you consume tap water or use hot water. s includes drinking, cooking, making baby formula, filling pet bowls or using appliances requiring water, such as icemakers and filtered water dispensers.

- 1. Find the closest cold water tap to where the water line comes into the home (such as an outside hose bib or laundry/utility sink). If using outside faucet, please use a hose to safely direct water away from your home. If applicable: Remove the faucet aerator and hynass any home treatment unit(s)
- Fully open the cold water tap and let the water run for at least 30 minutes

Next, flush the remainder of your household plumbing as follows:

3 Find all cold water faucets that will drain properly into a basin, tub, shower or laundry tub. Remove any aerators and screens from the faucets that will be flushed. DO NOT flush with aerators on. Skip any faucets where aerators can not be removed. If applicable:

- Remove any filter devices.

  Beginning in the lowest level of the home and working your way up, fully open the cold water taps throughout the home. Be sure to monitor all taps and drains to prevent
- Let the water run for at least 30 minutes at the last tap you open on the top floor.
- . Turn off each tap starting with the taps top floor and work your way to the bottom floor. Clean and replace the aerators on faucets as you go.

#### DAILY AND MONTHLY MAINTENANCE FOR SIX MONTHS

Other steps to help manage your potential exposure include: DAILY (for six months): Each morning or any time the water in the faucet has gone unused for more than six hours, flush your tap for five minutes before using any water for

drinking, cooking or making infant formula. MONTHLY (for six months): Remove and clean all faucet aerators. After six months

Source: American Water Works Association (AWWA)

QUESTIONS?				
Name	Phone		Email	
<b>A</b>				
QUALITY. ONE	: MORE WAY	Date:	Time:	a.m. / p.m.



LEARN MORE

Visit us online at

USEPA's Safe

National Lead

Please note:

OUESTIONS

select Lead and Drinking

Center: 1-800-424-LEAD

Information on Home Water Filters:

Your <u>customer-owned</u> service line contains lead. As a result, your household plumbing will need to be flushed routinely

TODAY, WE CONNECTED

YOUR SERVICE LINE TO THE

COMPANY'S NEW MAIN IN THE

loose, in case it contains lead.

PLEASE TAKE THE FOLLOWING STEPS TO MINIMIZE YOUR

#### POTENTIAL EXPOSURE TO LEAD.

**FLUSHING FOLLOWING A PARTIAL** 

LEAD SERVICE LINE REPLACEMENT

IMMEDIATE WHOLE HOUSE FLUSH

Flush your household nlumbing REFORE you consume tan water or use hot water. This includes drinking, cooking, making baby formula, filling pet bowls or using appliances requiring water, such as icemakers and filtered water dispensers.

- as an outside hose bib or laundry/utility sink), If using outside faucet, please use a hose to safely direct water away from your home. If applicable: Remove the faucet aerator and bypass any home treatment unit(s).
- 2. Fully open the cold water tap and let the water run for at least 30 minutes.

Next, flush the remainder of your household plumbing as follows:

- 3. Find all cold water faucets that will drain properly into a basin, tub, shower or laundry
- Remove any aerators and screens from the faucets that will be flushed. DO NOT flush with aerators on. Skip any faucets where aerators can not be removed.
- If applicable: Remove any filter devices.

  5. Beginning in the lowest level of the home and working your way up, fully open the cold water taps throughout the home. Be sure to monitor all taps and drains to
- Let the water run for at least 30 minutes at the last tan you open on the ton floor
- Turn off each tap starting with the taps top floor and work your way to the bottom floor. Clean and replace the aerators on faucets as you go.

ONCE EVERY TWO WEEKS FOR THREE MONTHS

Repeat whole house flushing instructions 3-7 above.

DAILY AND MONTHLY MAINTENANCE FOR SIX MONTHS

Other steps to help manage your potential exposure include

DAILY (for six months); Each morning or any time the water in the faucet has gone unused for more than six hours, flush your tap for five minutes before using any water for drinking, cooking or making infant formula.

MONTHLY (for six months): Remove and clean all faucet aerators. After six months clean aerators twice a year.

\*Source: American Water Works Association (AWWA)

Date:	Time:	a.m. /	p.m



**ASSESSMENT RESULTS** 

LEAD.

And, if it is, we'll

LINE

REPLACED.

ONLINE: Tips on what you can do to reduce the potential for lead exposure are attached and can be found online at missourisment

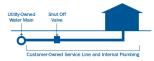
FOR MORE INFORMATION ON DRINKING WATER IN GENERAL: Call the USEPA's Safe Drinking Water Hotling at 1-800-426-4791.

LINE.

Today, we assessed your service line and found that portions appear to be made of lead or contain lead:

WE WOULD LIKE TO TALK TO YOU ABOUT REPLACING THE LEAD PORTION OF YOUR SERVICE LINE DURING OUR COURSE OF WORK. Please contact us at the number listed below

FLUSH BEFORE USING WATER FOR DRINKING OR COOKING. You should flush your household plumbing to remove any pipe scale that may have come loose in the process of checking your service line. Pipe scales may contain lead from old plumbing. To flush your line, please remove the aerator on the faucet(s) used for drinking or cooking, and run the water for 5 minutes before use. Then, clean and replace the aerators on the faucet(s)



Please note: This diagram is a generic representation. Variations may apply.



#### 72-HOUR WATER SAMPLE REMINDER

We haven't received your call to pick up your second water sample, so we thought we'd check to make sure you are still interested. If you are, the sample should be collected as soon as you can preferably within 72 hours (3 days) of the repair using the kit that was provided. If you have any questions or need a replacement kit, please contact us at the number listed below.

We'll provide you wi

#### Sampling Instructions for the Customer

- 1. AFTER water has sat motionless for AT LEAST 6 HOURS. gently open the kitchen cold water tap and fill the sample bottle to the top. This can be first thing in the morning or after returning home from work, etc. NOTE If a water treatment unit or filter is attached to the plumbing system or faucet, please remove the filter or bypass the unit before sampling.
- Turn off water and tightly cap the sample bottle. 3. Fill out the bottle label: Check Customer Box and complete Address, Sample Location, Collect Date, and

4.	Call us to pic	ck up your water sample.
	Name	
	Division	

LEARN MORE: For more information on your water quality and ways to reduce your potential exposure to lead, call us or visit us online at www.missouriamwater.com. Under Water Quality, select Lead and Drinking Water.

Date: \_\_\_\_\_/\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_a.m. / p.m.

### **Customer Communications**

- If lead is discovered during a service line replacement, the customer is provided a packet of information regarding the dangers of lead and an agreement to allow MAWC to replace the lead service line
- Customers who sign the agreement are provided information about flushing and the replacement is scheduled
- Customers who refuse replacement or are non-responsive are provided information about partial replacements and flushing

### **Customer Communications**

- Once the replacement is complete, the plumber will do the initial flushing and take a water sample.
- A second sample is taken after 6 hours with no usage. This can be taken by the plumber or the customer.
  - If the customer does not provide the sample within 72 hours they are contacted
- The samples are tested for lead by the American Water lab, and the pass/fail results are provided to the customer
  - If the sample shows lead, it is retested

## **Lead Line Working Docket**

- As part of MAWC's most recent rate case Order (WR-2017-0285), a working docket was to be established for lead line replacements
- Working Docket Activity:
  - December 2018 January 2019 MAWC worked with Staff to determine appropriate scope of information to include the Company's initial annual report
  - February 14, 2019 Staff formally requested a working docket be opened
  - February 15, 2019 MAWC filed annual report, as ordered by the Commission
  - February 20, 2019 Staff's request approved by the Commission
  - February 27, 2019 MAWC, Staff and OPC met to review the Company's annual report



# MISSOURI AMERICAN WATER