Lead Service Line Replacement Program

PSC Update – July 10, 2019



MISSOURI AMERICAN WATER

Missouri American Water's Approach

American Water's Program to Reduce Potential Lead Exposure

in Drinking Water



Treat
Monitor
Find
Replace
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

MISSOURI AMERICAN WATER HERE'S WHAT TO EXPECT WE KEEP LIFE FLOWING HAVE YOUR WE'LL WE'LL LET AGREE WE'LL FLUSH YOUR WE'LL CALL US. SERVICE CHECK YOU KNOW TO HAVE REPLACE PLUMBING. COLLECT LINE YOUR LINE. IF YOUR YOUR LEAD THE LEAD A WATER CHECKED. LINE IS SERVICE SERVICE SAMPLE. LEAD. LINE LINE. When the work is completed, we will schedule a time to collect a water sample(s) after flushing. any pipe scale that REPLACED. of lead. ie will inform yo bad pipe is four This may involve First, we'll meet w This step should be completed BEFORE And, if it is, we'll ed your app you consume tap to replace it. Replacing the entire lead porti of the service li how to prepare the work area. er or use hot wa Once available, we will inform yo of the results. Then, before we can proceed, the property owner must sign and system grounding. We'll provide you wi In addition, we may need to dij one to two sma ake additional days but there's no nee for initial and orgon maintenance flushin Our contractor will coordinate with you nage your risk eturn a release to See FAQs on the llow our contractor to work on your property. lead in drinkin water. existing service lin to determine your service line materia back for more Information. may want to store a few gallons of water to perform the init Caring CALL US: Contact our project manager at the number provided on the front page. Contactnarias and alon contact our Customer Service Center at 1.866-430.0820, MF, 7 a.m.-7 p.m. For emergencies, we're available 24/7. ONLINE: Tips on what you can do to reduce the potential for lead exposure are attached and can be found online at missiourisment

FOR MORE INFORMATION ON DRINKING WATER IN GENERAL: Call the USEPA's Safe Drinking Water Hotline at 1-800-426-4791. Note: We are not selling any services in this progra

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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

questions or need a replacement kit, please contact us at

1. AFTER water has sat motionless for AT LEAST 6 HOURS.

sample bottle to the top. This can be first thing in the

morning or after returning home from work, etc. NOTE

plumbing system or faucet, please remove the filter or

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: ____/20____ Time: _____a.m. / p.m.

If a water treatment unit or filter is attached to the

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

gently open the kitchen cold water tap and fill the

the repair using the kit that was provided. If you have any

We haven't received w

the number listed below.

Collect Time.

Name Phone

Sampling Instructions for the Customer

bypass the unit before sampling.

4. Call us to pick up your water sample.



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.

Date: / /20 Time: a.m. / p.m.

REPLACEMENT

The Customer elects for the Company to replace the Customer's lead water service line: CHECK

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 adjacent to the Property, at no cost to the Customer.

PROPERTY ADDRESS: City

The Customer represents that the Customer is/are the sole owner(s) of the Property at the address shown above and has/ have sole authority to agree to this License.

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

LEAD WATER SERVICE LINE

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 performance of the formation of the form 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 CUSTOMER 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

Signature .

Print Name

Date

Email

Phone

CUSTOMER Sidenture

the Custome

DUR WATER PLE REMINDER	Print Name
our call to pick up your second water	Email Phone

Date

PLEASE RETURN TO:

MISSOURI-AMERICAN WATER COMPANY Signature

*		
M I S S O U R I AMERICAN WATER we keep life flowing"	FLUSHING INSTRUCTIONS	
FOR MORE INFORMATION	TODAY, WE REPLACED THE FOLLOWING AT YOUR PROPERTY BECAUSE IT CONTAINED LEAD:	
Missouri American Water meets all drinking water standards related to lead.	Customer-owned portion of the service line O ther O ther O usboner-owned Service Line Customer-owned Service Line	
Basic information about lead, the steps we take— along with tips on what	Is information about, the steps we table— by the ps of the table may be done with the or the steps scientist and mark the done by the ps of the table mark the done be done during construction, in case it contains and the steps scientist and mark the done be done we have table— tead. PLEASE TAKE THE FOLLOWING STEPS TO MINIMIZE YOUR EXPOSURE TO ANY SCALE THAT MAY HAVE BEEN RELEASED.	
you can do-to reduce the potential for lead exposure can be found unied the recourses listed		
below.		
For example, older plumbing fixtures like faucets, valves and sokder can contain small amounts of lead, so flushing can help reduce lead exposure.	Flash your household plumbing BEEDBE you consume tap water or use hot water. This included winking, cooking, maining haby formul, milling pet boxies or using appliances requiring water, such as is cenariaers and filtered water dispensers. I. Find the cleased cold water ing to where the water in incomes into the home (such as an outside hose ho to lumordry(utility sink), if using outside fauer, please use a hose to safely direct water away from your home. If applicable: Remove the faucet aerstor and bypas any home treatment unit(s). I. Fully open the cold water tap and te the water run for at least 30 minutes.	
RESOURCES	Next, flush the remainder of your household plumbing as follows:	
Visit us online at missouriamwater.com. Under Water Quality, select Lead and Drinking Water. USEPA's Safe Drinking Water Hotline: 1-800-426-4791 National Lead	 Find all cold water fluxers that will drain properly into a basin, tub, shower or laundry tub. Remove any anotator and accesses from the fluxers tark tark life fulness. Do NOT fluxin with anotators on. Silv any fluxers where serators can not be removed. If applicable: Remove any litter devices. Beginning in the lowest level of the home and working your way up, fully open the cold water tags throughout the home. Be sure to monitor all taps and drains to prevent overflows. 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 eventors on fluxers as you go. 	
Information Center: 1-800-424-LEAD	DAILY AND MONTHLY MAINTENANCE FOR SIX MONTHS	
Information on Home Water Filters: www.nsf.org	Other steps to help manage your potential exposure include: • DALLY (for six months): Each morning or any time the water in the faucet has gone unused for more than as ik 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,	
Please note: homeowners are responsible for their home plumbing.	clean aerators twice a year. *Source: American Water Works Association (AWWA) OUESTIONS?	
	Name Phone Email	
	GUALITY: ONE MORE WAY WE KEEP LIFE FLOWING. Dute: Time:a.m. / p.m.	

FLUSHING FOLLOWING A PARTIAL ¥ MISSOURI American Water WE KEEP LIFE FLOWING

LEARN MORE

Visit us online at

USEPA's Safe

National Lead

www.nsf.org

Please note

home nlumbing

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select Lead and Drinking

Drinking Water Hotline 1-800-426-4791

Information Center: 1-800-424-LEAD

Information on Home Water Filters:

responsible for their

LEAD SERVICE LINE REPLACEMENT TODAY, WE CONNECTED UTILITY-OWNED VS. CUSTOMER-OWNED PORTION OF THE SERVICE LINE

Utility-Owned Shut Off Water Main Valve

Please note: This diagram is a generic representatio

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YOUR SERVICE LINE TO THE COMPANY'S NEW MAIN IN THE STREET.

Your customer-owned service line contains lead. As a result, your household plumbing will need to be flushed routinely remove any pipe scale that may come loose, in case it contains lead.

PLEASE TAKE THE FOLLOWING STEPS TO MINIMIZE YOUR POTENTIAL EXPOSURE TO LEAD.

IMMEDIATE WHOLE HOUSE FLUSH

Flush your household nlumbing REFORE you consume tap 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. 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 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 prevent overflows.
- 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.

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.

Print Name Phone

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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