LEAD, DRINKING WATER & REGIONAL RESPONSE

CHESAPEAKE BAY POLICY COMMITTEE BRIEFING MARCH 18, 2016

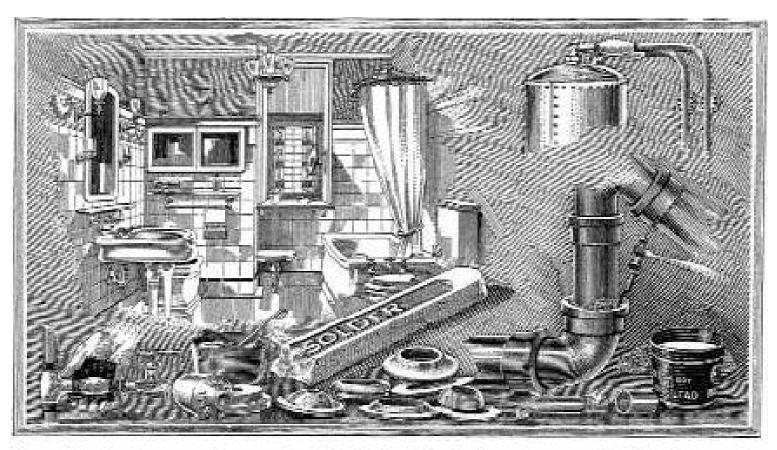


Metropolitan Washington Council of Governments

LISA RAGAIN, PRINCIPAL WATER RESOURCES PLANNER

Legacy Infrastructure





"Lead helps to guard your health." The illustration for an ad in the November 1923 National Geographic, one of a series by the National Lead Company.





Flint raised the level of attention to lead in drinking water.

- The Lead and Copper Rule is complex.
- Infrastructure investment is needed.
- Effective, funded and transparent drinking water governance is a necessity.
- Clear communication across agencies and jurisdictions is essential.

One Region, One Message, Many Voices



Lead, Drinking Water and Health

- Complex
- Language
- Ubiquitous
- Exposures
- Prior experience
- Media attention

Regional Status



Utilities are in compliance with the Lead and Copper Rule

- Corrosion control programs in place
- Lead service lines audited
- No change in source water or treatment
- Sampling protocols & guidance followed

2013 EPA National Public Water System Compliance Report

Violation	Violations	(n) PWS
None	0	0
None	0	0
Treatment Technique	19	19
Monitoring	130	128
None	0	0
Treatment Technique	5	5
Monitoring	115	82
	None None Treatment Technique Monitoring None Treatment Technique	None0None0Treatment Technique19Monitoring130None0Treatment Technique5

Regional Status



- All systems implement corrosion control programs, for example
 - The Washington Aqueduct adds orthophosphate for drinking water in DC Water, Arlington and Fairfax Water Falls Church service area.

Monitoring

- Water systems continuously monitor corrosion parameters and to maintain good water quality.
- DC Water and the Washington Aqueduct saw lead pipe loops to simulate residential water use.

Customer Testing

- DC Water offers free lead test kits to customers by request.
- WSSC will test customer water upon request
- Virginia utilities refer customers to state certified laboratories

Lead Service Lines

DC Water

- Replaces lead and galvanized iron service lines in public space during main replacements or construction work.
- Encourage property owners to replace lead service pipes on their private property.
- Replaces the public portion if property owners opt to replace their portion of the lead service line, subject to availability of funds.

Alexandria

- Increase efforts for replacement
- Offer credits for flushing

DC Water's Lead Response By the Numbers



- 125,000 lead service lines, 105,000 residential
- 19,895 lead service pipes replaced in public space since 2003
- \$209 million budget, expenses to date are ~ \$150 million
- At least 100 homes with lead service pipes are tested every 6-months to comply with the Lead and Copper Rule (LCR)
- From 2005 to present, 90% of LCR test results were below 15 ppb
- 90% of 2014 2015 of LCR samples were \leq 5.5 ppb
- 2,500 lead test kits distributed since 2010

15 ppb

Action Level vs. MCL

Science & Regulation

- Household exposure
- Corrosion control
- Sampling
 - Protocol

Communications

Volunteers

Consumer & Policy

- Responsibilities
 - Residential
 - Utility
- Certified Laboratories
- Advice
 - Good home plumbing practices
 - Health



Collaboration



Be aware of repair work to your lead

pipe line

Public Health

- Lead Prevention Programs
- Drinking water, plumbing
- Consumer actions
- Schools and Daycare

Test your water for lead

In Chicago, you can call 311 for information on how to get your drinking water tested for lead.

You can also visit http://epa.illinois.gov to obtain a list of certified laboratories to test for lead.

Other steps you can take

#1 #2 #3 #4 Use only cold Run water Purchase a Regularly before using if water when water filter clean and it has not drinking or that removes remove debris cooking



been used for

several hours

Anything else you can do?

You can remove the lead service line.

You can purchase faucets and other plumbing parts that do not contain lead.

lead

from faucet

aerators

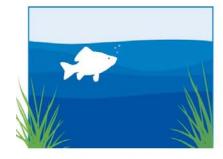


Regional Communication

- Lead as a serious health concern
- Customer health and safety
- Removal of all lead service lines
- Drinking water system actions
- Responsibilities
 - Water system
 - Customers
 - Schools and institutions
- Collaboration



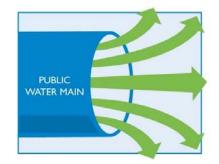
WHERE DOES DRINKING WATER COME FROM?



ESSENTIALLY NO LEAD FOUND

The District of Columbia's drinking water is drawn from the Potomac River by the Washington Aqueduct, a federal agency.

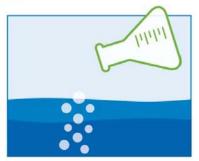
3 WHO DISTRIBUTES THE WATER?



ESSENTIALLY NO LEAD FOUND

DC Water distributes the water to homes and businesses through 1,300 miles of pipes in the District. Source: DC Water

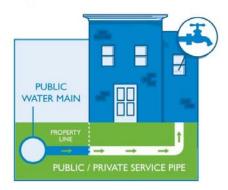
WHO TREATS DRINKING WATER?



ESSENTIALLY NO LEAD FOUND

The Washington Aqueduct is responsible for water treatment and adds orthophosphate (a food-grade chemical) to minimize the release of lead from service pipes and household plumbing.

4 WHERE CAN LEAD BE FOUND?



POSSIBLE LEAD

Lead can enter your water if you have a lead service pipe or household plumbing with lead. Orthophosphate can reduce lead release from these sources.

Questions?

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