MAPPING LEAD SERVICE LINES

Charting a Path to Engage a Community
Background on the Collaborative
Mapping lead service lines
Case study from Evanston
Case study from Cincinnati
Q & A
Current Members

- American Public Health Association
- American Water Works Association*
- Association of Metropolitan Water Agencies*
- Association of State Drinking Water Administrators
- Blue Green Alliance
- Children’s Environmental Health Network*
- Clean Water Action*
- Environmental Defense Fund*
- Green and Healthy Homes Initiative
- Justice and Sustainability Associates
- Learning Disabilities Association of America
- National Center for Health Housing
- National Association of County and City Health Officials

* Steering Committee Members

- National Association of State Utility Consumer Advocates
- National Association of Water Companies
- National Conference of State Legislatures
- National Environmental Health Association
- National League of Cities
- National Rural Water Association
- Natural Resources Defense Council
- North East Midwest Institute
- RESOLVE*
- River Network
- Rural Community Assistance Partnership
- Trust for America’s Health
- United Parents Against Lead
- Water Research Foundation
Funding Sources

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SPEAKER INTRODUCTIONS

- **Stephanie Hayes Schlea**
  - Manager, Regulatory and Scientific Affairs, Association of Metropolitan Water Agencies

- **Darrell King**
  - Bureau Chief, Water Production, City of Evanston

- **Jeff Swertfeger**
  - Superintendent, Greater Cincinnati Water Works
Background on mapping LSLs

Stephanie Hayes Schlea
Manager, Regulatory and Scientific Affairs
Association of Metropolitan Water Agencies
Why map LSLs?

- **Benefits**
  - Increasing public transparency and trust
  - Encouraging LSL replacement through disclosure
  - Compared to other tools, maps are intuitive and enable user to survey entire neighborhoods

- **Challenges**
  - Identifying mapping software
  - Displaying information in a user friendly manner
  - Communicating limitations to the public
  - Updating the map overtime
What communities already have LSL maps?

- **Arizona**
  - Tucson, Arizona
- **Illinois**
  - Barrington, Illinois
  - Downer's Grove, Illinois
  - Evanston, Illinois
  - Moline, Illinois
  - Naperville, Illinois
  - Rockford, Illinois
  - Wheaton, Illinois
- **Iowa**
  - Ames, Iowa
- **Ohio**
  - Cincinnati, Ohio
  - Columbus, Ohio
  - Northwestern Water & Sewer District, Ohio
- **Massachusetts**
  - Malden, Massachusetts
- **New York**
  - Rochester, New York
- **Pennsylvania**
  - Pittsburgh, Pennsylvania
- **Rhode Island**
  - Providence, Rhode Island
- **Vermont**
  - Bennington, Vermont
- **Wisconsin**
  - Fond du Lac, Wisconsin
  - Manitowoc, Wisconsin
- **Washington, DC**
  - DC Water
EDF Study on Ohio LSL Communication Tools

Cincinnati Interactive Map

Columbus Interactive Map

Cleveland Database

Chart Your Chlora Connection

Do I have a lead service connection?
Like many older water systems across the country, the Cleveland Water system does contain some chlora service connections. Chlora connections are maintained by Cleveland Water. In general, if your home was built before 1954 or your connection is larger than one inch in diameter, it is likely that you have a lead service connection. To see a map of our service area that shows the percentage of Cleveland Water’s chlora service connections that are expected to be lead, click here. If you would like to have your water tested, click here for a list maintained by Ohio EPA certified laboratories that can test for lead and many other potential contaminants.

Use the search tool below to find out about the service connection that serves your property.

House Number
Street Direction
Street Name
Zip Code
Captcha Code

City of Columbus Water Service Area
Study Findings

- Participants overwhelmingly indicated they would be likely to pressure the seller to replace the LSL as a condition of purchase.
  - Only 5% of survey participants said they would consider moving into a home without taking some action.

- Participants had the greatest understanding of the Cincinnati Interactive Map, which provided information about both the public and private-side of service lines at individual properties.
  - For other tools, participants became frustrated when they learned a tool only provided information about one side of the service line.
Study Recommendations

- Provide information about individual properties
- Provide information on the private side, in addition to the public side, of the service line
- Be explicit about what is not known
- Carefully consider legends, colors, and icons

Learn More:
- Blog: http://blogs.edf.org/health/2019/02/01/new-study-interactive-online-tools-lead-service-line/
Mapping LSLs – Evanston IL
• There are a total of 14,597 water services in Evanston.
• We estimate 8,109 (56%) of the city’s portion of the water services are still constructed of lead pipe.
• We estimate 13,463 (92%) of the private portion of the water services are still constructed of lead pipe.
City of Evanston Water Service Information

Simply enter your 8 digit water billing account number or address in the search bar. For multi-family buildings you may have to manually click on the nearest blue dot as a service point can serve a range of addresses.

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OK
Mapping LSLs – Evanston IL
Mapping LSLs – Evanston IL
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Mapping LSLs – Evanston IL

1940 SHERIDAN RD
Account #11510190

The private portion of the water service line from the shutoff valve in the parkway to the building is lead.

The city portion of the service from the shutoff valve to the water main is copper with an install year of 2016.

Diameter: 1 inch - Tap size: 1"
Address range: NA

Zoom to
Case Study - Cincinnati

Jeff Swertfeger
Superintendent
Water Quality Division
Greater Cincinnati Water Works
Greater Cincinnati Water Works

- 1.1 million served by GCWW
- Dual ownership of service line
- Stopped using lead approx. 1927
- Estimated
  - 16,500 full LSL
  - 27,000 customer owned only
  - 43,500 Total

lead.mygcww.org
Getting to Mapping

- Need to remove lead
- Lead **education** program
  - Educate
  - Motivate
  - Act
- **Assist** with payment and assessments
- People need to be informed in order to take action

[link: lead.mygcww.org]
Case for a Map

- Early had an address lookup tool
- Good start, but limited value
  - Search by account/phone number
  - Need to inform property purchases
  - Need to look at status of daycare, restaurants etc.
- Need for easier way to search
Building a Map

- Pretty good records for our side
- Customer side records lacking
  - Assumed lead if before 1927
  - Field records, inspector reports
- Customer side probably conservative
  (ie we call it lead when it is not)
- Continually updating
  - Verification of customer corrections
  - Other field work

lead.mygcww.org
Making Map Usable

- Arc GIS platform
- Search by address or zoom/pan around
- Clearly indicate 2 sides
- Colors – from customers viewpoint
  - Green – good to go
  - Yellow – caution, lead
  - Gray – grayed out = unknown
- Disclaimer

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I Agree
Disclaimer

We did our best

Can’t guarantee it though

We are correcting it as we learn

OK, I understand

Click here

lead.mygcww.org
Map

lead.mygcww.org

Greater Cincinnati Water Works Service Line Information

Legend

Public Side | Private Side
NONLEAD_LEAD
NOINFORMATION_NONLEAD
INFO_NOINFO
NONLEAD_NOINFORMATION
NONLEAD_NONLEAD
LEAD_NOINFORMATION
LEAD_NONLEAD
LEAD_LEAD
Concerns vs Reality

- Nobody will use
  - 25,000 hits (average 20 per day)

- Property values will plunge
  - Have not seen that

- Public upset over privacy issues
  - Have had no complaints

- Political ramifications
  - Worked with city council members along the way

lead.mygcww.org
Lessons Learned

- Tool is very much appreciated by public
- Public understands that you don’t know everything
- Great anchor to inform public and start the conversation
- It is motivating people to remove their line

lead.mygcww.org
Stay tuned for our next webinar

Replacing Lead Service Lines in Early Learning Environments

Spring 2019