



Birmingham's Water

What's Changed?

COMMUNITY FORUM

NOVEMBER 14, 2019

Tonight's Format - 2 parts

- ▶ PART 1

- ▶ Formal presentation and questions.

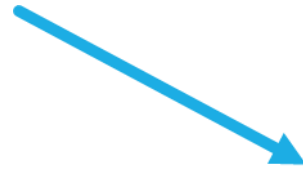
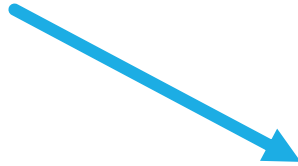
- ▶ Part 2

- ▶ Open Discussion with the panel following the presentation.

Water Panel

- ▶ **Brandon Onan**, Lead and Copper Supervisor with the Department of Environment, Great Lakes and Energy (EGLE).
- ▶ **Steven Crider**, Drinking Water Unit Manager with the Department of Health and Human Services (DHHS)
- ▶ **Patrick Williford**, Management Professional of Operations with the Great Lakes Water Authority (GLWA)
- ▶ **Bob Jackovich**, Operations Manager with the Southeast Oakland County Water Authority
- ▶ Oakland County Health Division
- ▶ **Paul O'Meara**, City Engineer with the City of Birmingham

Birmingham's Water Supply



WATER SYSTEM

	FLINT	BIRMINGHAM
Changed Source of Water		
Changed Treatment of Water System		

WATER SYSTEM

	FLINT	BIRMINGHAM
Changed Source of Water	YES	
Changed Treatment of Water System		

WATER SYSTEM

	FLINT	BIRMINGHAM
Changed Source of Water	YES	
Changed Treatment of Water System	YES	

WATER SYSTEM

	FLINT	BIRMINGHAM
Changed Source of Water	YES	NO
Changed Treatment of Water System	YES	

WATER SYSTEM

	FLINT	BIRMINGHAM
Changed Source of Water	YES	NO
Changed Treatment of Water System	YES	NO

WATER SYSTEM

	FLINT	BIRMINGHAM
Changed Source of Water	YES	NO
Changed Treatment of Water System	YES	NO

* New Lead and Copper Rules Established under the Michigan Safe Water Drinking Act to increase awareness and decrease exposure to lead and copper in Michigan's drinking water.

Overview

- ▶ Michigan Safe Water Drinking Act created as Public Act 399 of 1976
- ▶ Provides that the department (formerly MDEQ now EGLE) shall promulgate and enforce rules to carry out this act pursuant to the administrative procedures act of 1969, 1969 PA 306, MCL 24.201 to 24.328.
- ▶ New Michigan Lead and Copper Rules enacted in June 2018.

Lead and Copper Rule of 2018

The purpose of the Lead and Copper Rule (LCR) is to protect public health by minimizing lead and copper levels in drinking water. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials. **The rule establishes action levels (AL) for lead and copper based on a 90th percentile level of tap water samples. An action level exceedance is not a violation but triggers other requirements to minimize exposure to lead and copper in drinking water, including water quality parameter monitoring, corrosion control treatment, source water monitoring/treatment, public education, and lead service line replacement.** All community water supplies and nontransient noncommunity water supplies are subject to the LCR requirements.



WHAT CHANGED WITH MICHIGAN'S 2018 LEAD AND COPPER RULE?

Prior to the adoption of the new Michigan Lead and Copper Rule in June 2018, Michigan's requirements were consistent with the federal Lead and Copper Rule. The new Michigan rule includes targeted changes that are detailed here.

- ▶ 1. Inventory all service lines
- ▶ 2. Complete Lead Service Line Replacement
- ▶ 3. Established a State Lead Action Level
- ▶ 4. New Sampling Requirements and Methods
- ▶ 5. Public Education

Michigan's Lead and Copper Rule

- ▶ State Action Level is 15 parts per billion (ppb)
- ▶ Birmingham's 90th percentile is 17 ppb.
- ▶ Birmingham had 32 sites with lead service lines tested.
- ▶ 5 had levels of 15ppb or higher.

Michigan's Lead and Copper Rule

- ▶ Requirements under the new rule:
 - ▶ **January 1, 2020** - Each municipality must have a complete inventory of all lead service lines in the community to report to the State and notify all affected properties.
 - ▶ **January 1, 2020** – Sampling pools must be reviewed and updated based on current inventory for future testing.
 - ▶ **January 1, 2021** – Each municipal must have a plan to address all remaining lead service lines annually. 5% to 7% minimum
 - ▶ **January 1, 2025** – Action Levels are reduced from 15 ppb to 12 ppb for future testing.
 - ▶ **January 1, 2041** – Communities must have all lead service lines replaced.

Birmingham's Inventory to date.

- ▶ The City has approximately 9,000 water customers.
- ▶ The City has approximately 780 customers with a lead water service, including 84 requiring further review.
- ▶ About 9% of water customers have a lead water service line. Roughly 91% do not.

Current Actions

- ▶ Notified properties with Action Levels of 15ppb or higher and provided water filters to all 5 properties with an Action Level exceedance.
- ▶ Initiating the replacement of water service lines at the 5 existing properties with levels higher than 15ppb.
- ▶ Initiating public education (e.g. mailing, website, water forum, etc.)
- ▶ Waived permit fees for residents wishing to initiate replacements to their properties.
- ▶ Developing searchable database for residents to check the material of their water service line on the City's website.



PROPERTY SEARCH X

Search type:

Address

Number & Street:

851 S ETON ST

Spatial Search Tools



Expand for full view

Dark Parcels

851 S ETON ST

Site Address: 851 S ETON ST, BIRMINGHAM, MI, 48009
Parcel Identification Number: 2031251001
Owner Name: CITY OF BIRMINGHAM
Property Description: T2N, R11E, SEC 31
ASSESSOR'S PLAT NO 28B LOT 2
City Lateral Service: Lead
Private Water Service: Lead

SAMPLE

Future Actions

State Requirement	Birmingham Action
Complete Inventory by January 1, 2020	
Double future testing pool from 32 to 64 properties beginning January 1, 2020.	
Develop Plan by January 1, 2021 to begin replacing lead service lines at 7% per year (approx. 55) through 2041.	

Future Actions

State Requirement	Birmingham Action
Complete Inventory by January 1, 2020	- Complete Inventory by January 1, 2020.
Double future testing pool from 32 to 64 properties beginning January 1, 2020.	
Develop Plan by January 1, 2021 to begin replacing lead service lines at 7% per year (approx. 55) through 2041.	

Future Actions

State Requirement	Birmingham Action
Complete Inventory by January 1, 2020	<ul style="list-style-type: none">- Complete Inventory by January 1, 2020.- Provide filters to all properties included in the inventory that have lead service lines.
Double future testing pool from 32 to 64 properties beginning January 1, 2020.	
Develop Plan by January 1, 2021 to begin replacing lead service lines at 7% per year (approx. 55) through 2041.	

Future Actions

State Requirement	Birmingham Action
Complete Inventory by January 1, 2020	<ul style="list-style-type: none">- Complete Inventory by January 1, 2020.- Provide filters to all properties included in the inventory that have lead service lines.
Double future testing pool from 32 to 64 properties beginning January 1, 2020.	Increase future testing pool from 32 to include all properties in the inventory (approx. 780) beginning January 1, 2020.
Develop Plan by January 1, 2021 to begin replacing lead service lines at 7% per year (approx. 55) through 2041.	

Future Actions

State Requirement	Birmingham Action
Complete Inventory by January 1, 2020	<ul style="list-style-type: none">- Complete Inventory by January 1, 2020.- Provide filters to all properties included in the inventory that have lead service lines.
Double future testing pool from 32 to 64 properties beginning January 1, 2020.	Increase future testing pool from 32 to include all properties in the inventory (approx. 780) beginning January 1, 2020.
Develop Plan by January 1, 2021 to begin replacing lead service lines at 7% per year (approx. 55) through 2041.	<ul style="list-style-type: none">- Take highest level properties from inventory and begin replacements in 2020.

Future Actions

State Requirement	Birmingham Action
Complete Inventory by January 1, 2020	<ul style="list-style-type: none">- Complete Inventory by January 1, 2020.- Provide filters to all properties included in the inventory that have lead service lines.
Double future testing pool from 32 to 64 properties beginning January 1, 2020.	Increase future testing pool from 32 to include all properties in the inventory (approx. 780) beginning January 1, 2020.
Develop Plan by January 1, 2021 to begin replacing lead service lines at 7% per year (approx. 55) through 2041.	<ul style="list-style-type: none">- Take highest level properties from inventory and begin replacements in 2020.- Work with SOCWA on cooperative purchasing contract to achieve best contract pricing and expedite replacement above 7% per year.

Cost Implications

- ▶ Replacement of 780 lead service lines is approximately \$6.2 million dollars.
- ▶ As an example, to generate an additional \$6 million to complete the work in one year the City's water rate would need to increase \$7.27 per 1,000 gallons or from \$4.87 to \$12.14 per 1000 gallons or an additional \$654.00 per year for the average water customer.
- ▶ An annual replacement schedule will be determined by contracted pricing to achieve the most cost effective and aggressive program without raising water rates for all water customers.



For more information visit:

www.bhamgov.org/leadtesting