

The background of the slide features a close-up, high-speed photograph of a water droplet falling into a pool of water. The droplet is captured mid-fall, just above the point of impact, creating a series of concentric ripples that spread outwards. The water is a deep, vibrant blue, and the lighting highlights the spherical shape of the droplet and the texture of the ripples. The overall composition is clean and focused on the theme of water.

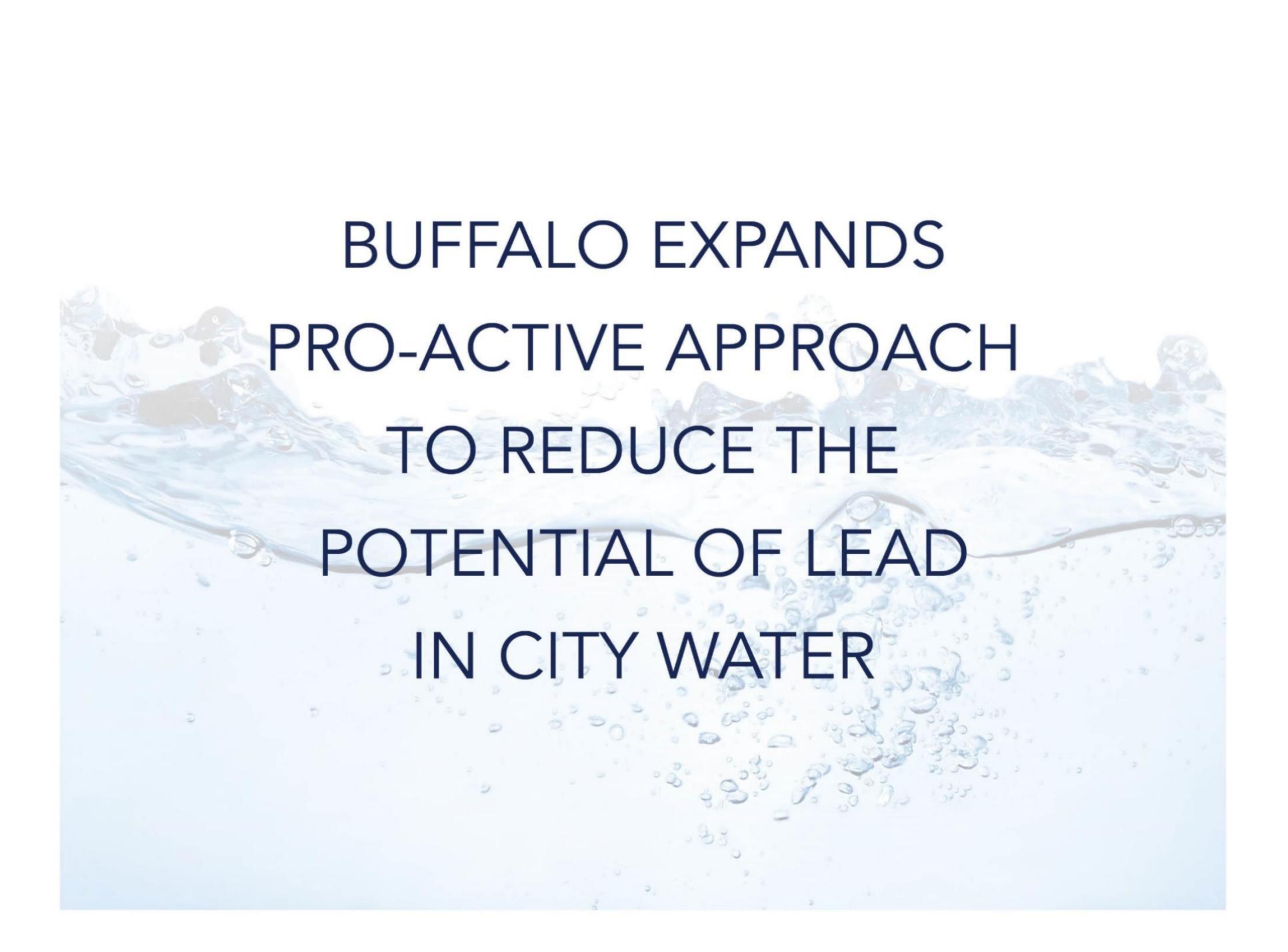
SAFE Drinking Water Buffalo, NY

LAKE ERIE

EXCELLENT 'SOURCE WATER'

NON-CORROSIVE

EASILY TREATABLE

The background of the slide is a high-speed photograph of water splashing, creating a dynamic scene with numerous bubbles and droplets. The water is a light blue color, and the overall composition is clean and modern.

BUFFALO EXPANDS
PRO-ACTIVE APPROACH
TO REDUCE THE
POTENTIAL OF LEAD
IN CITY WATER

The background of the slide is a high-speed photograph of water splashing, creating a dynamic scene with numerous bubbles and droplets. The water is a light blue color, and the overall composition is energetic and fluid.

FREQUENT
TESTING

PHOSPHATE-BASED
CORROSION INHIBITOR

2016 TESTING

INCREASED RESIDENTIAL TESTING
TO AN ANNUAL CYCLE

TESTING PERIOD
JUNE 1-SEPTEMBER 30



256

LEAD TESTING SAMPLE KITS
DISTRIBUTED CITY-WIDE

152

CONFIRMED TEST RESULTS

(AS OF 10/17/16)



**RESULTS SHOWED EITHER
NO LEAD
OR LEVELS FAR BELOW
THE EPA'S
ACTION LEVEL OF
15 PARTS PER BILLION**

A background image showing a dynamic splash of water with numerous bubbles and droplets, creating a sense of movement and freshness. The water is light blue and white, with darker blue highlights where the water is more concentrated.

INDEPENDENT
TEST RESULTS SHOWED
CITY OF BUFFALO
WATER IS
LEAD SAFE



**BUFFALO SETS NEW
INTERNAL ACTION LEVEL:**

5 PARTS PER BILLION

**ONLY 7 HOUSEHOLDS
CAME BACK AT
> 5 PARTS PER BILLION**

(ZERO EXCEEDING 15 PARTS PER BILLION)

ADDITIONAL PROACTIVE STEPS:



CONDUCTING TESTS IN ALL
CITY-OWNED BUILDINGS WITH
PRE-SCHOOL PROGRAMMING

ANY PROPERTY THAT IS CITY OWNED
OR ACQUIRED WILL BE TESTED

A high-speed photograph of a water droplet falling into a pool of water, creating concentric ripples. The background is a soft gradient of blue and green. The text "SAFE Drinking Water Buffalo, NY" is overlaid in white, with a dotted line below it.

SAFE Drinking Water Buffalo, NY

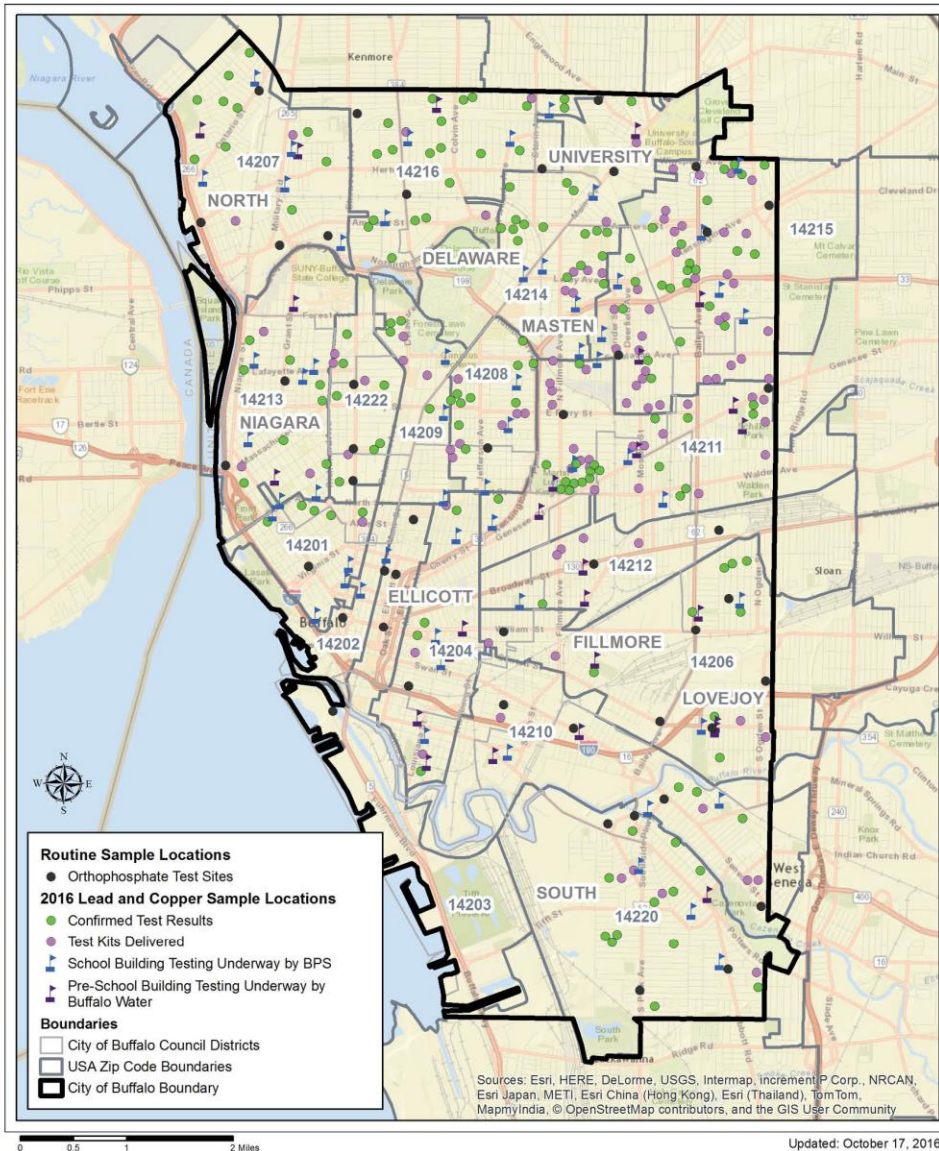
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WATER QUALITY MONITORING

2016 Lead and Copper Participation



Operated by **VEOLIA**
WATER

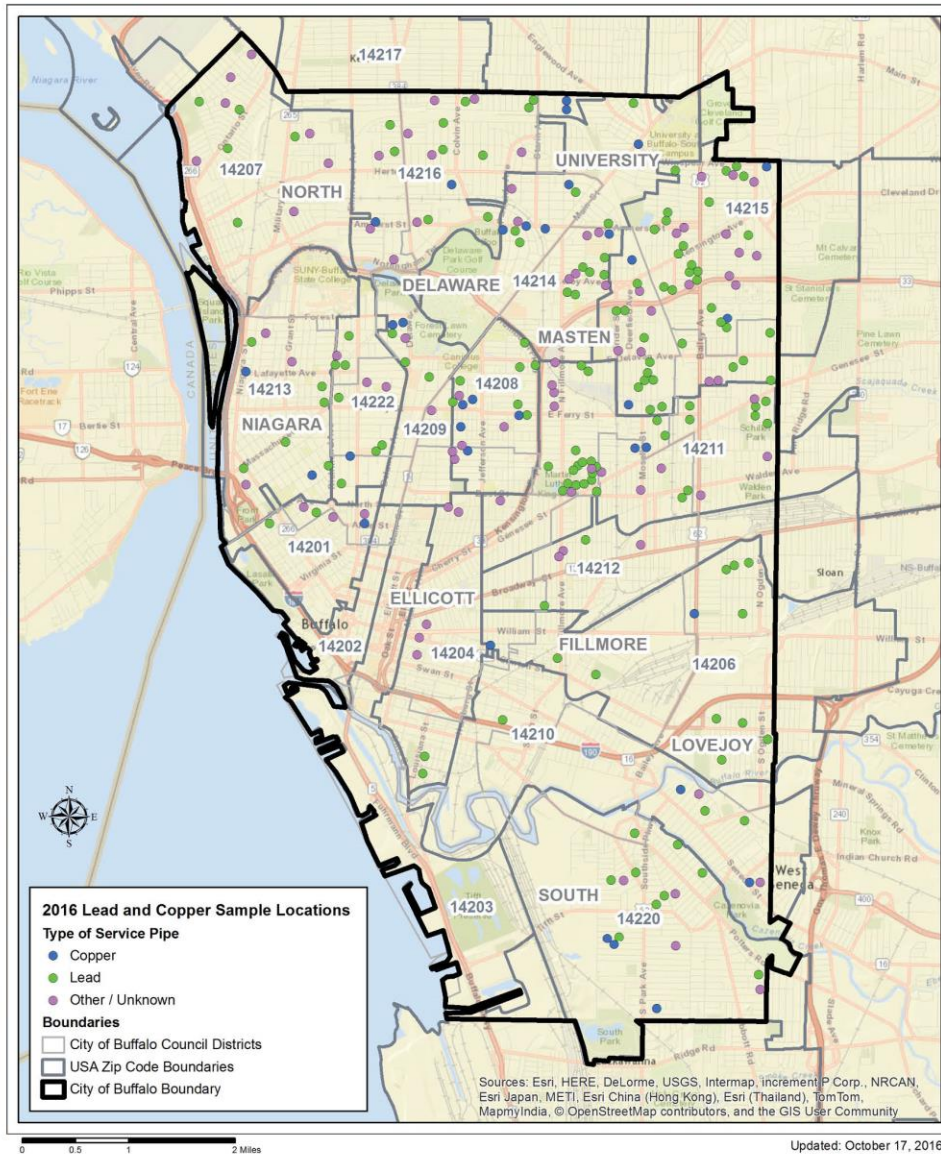


TYPE OF SERVICE PIPE

2016 Lead and Copper Participation



Operated by **VEOLIA**
WATER



OUR DRINKING WATER

- Source water - Lake Erie
- Raw water intake known for superior clarity and reliable water quality
- Non-corrosive and easily treatable
- Add corrosion inhibitor that creates a protective layer inside pipes

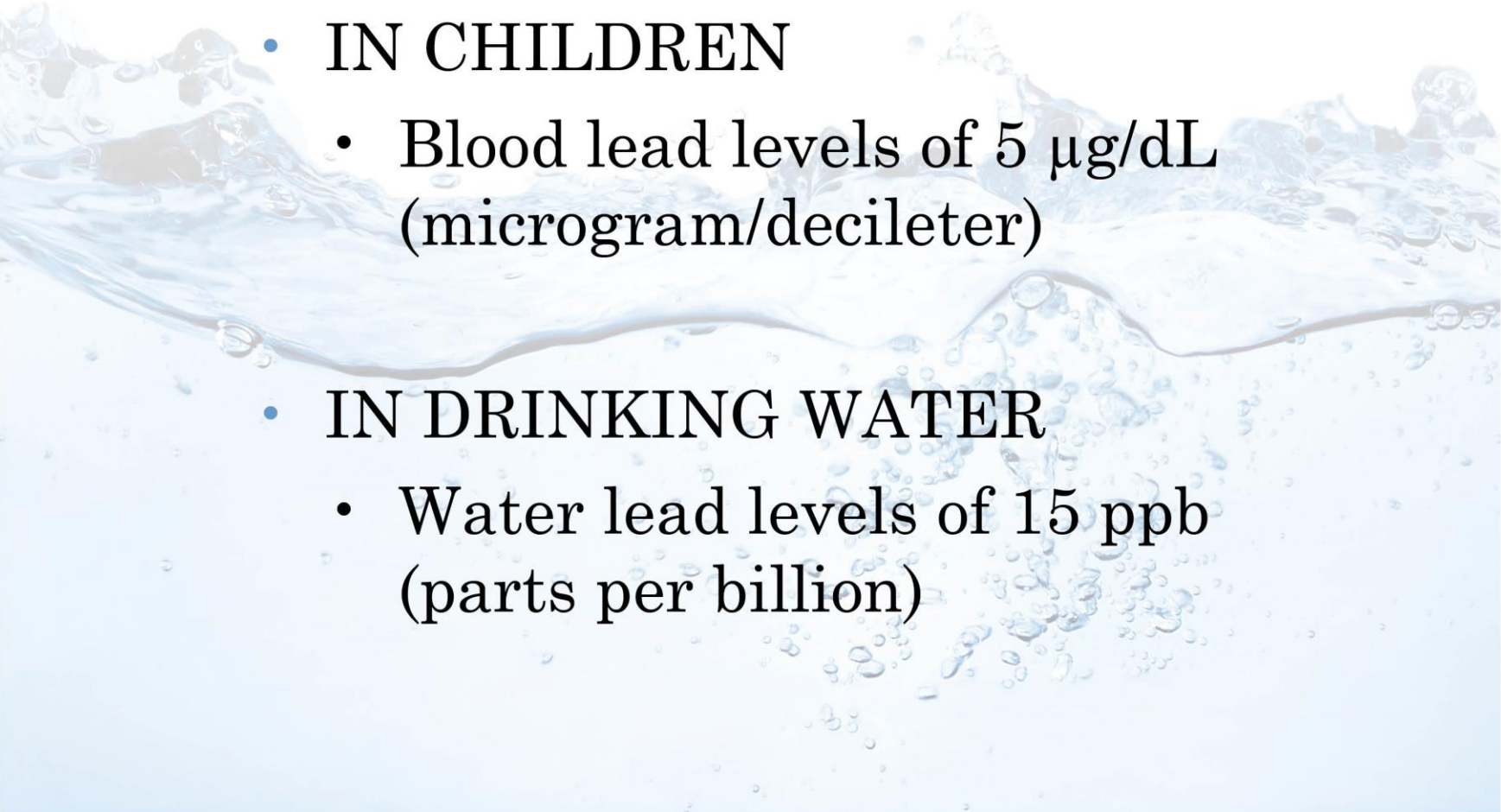
Recent studies show that most lead water crises are related to change in raw water source or treatment process

REGULATIONS / REQUIREMENTS

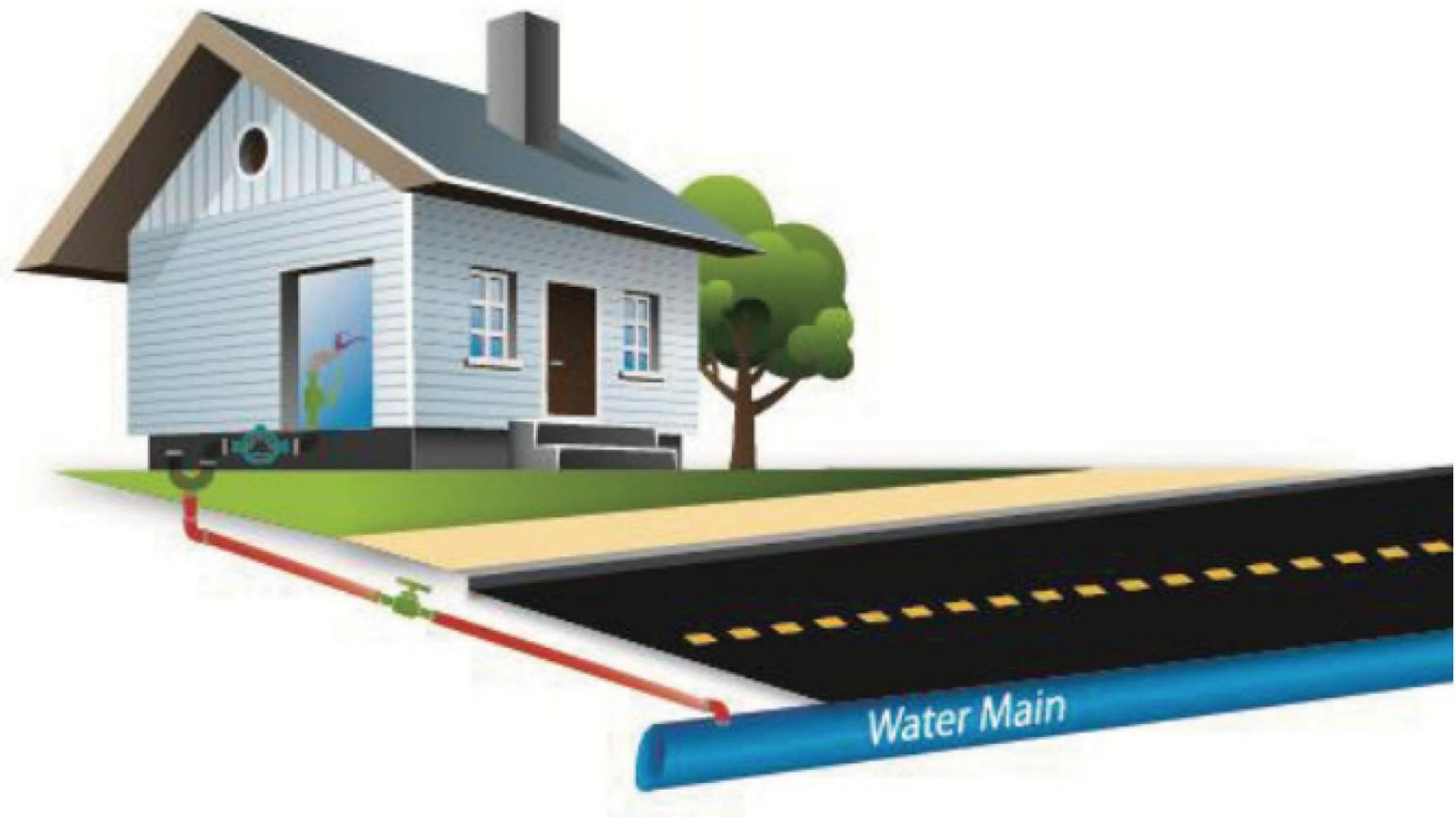
- EPA required lead testing every 3 years
- 50 samples required
- Detailed EPA guidance for sampling procedure
- 90th percentile EPA Action Level for lead is 15 ppb



PUBLIC HEALTH CONCERNS

- 
- IN CHILDREN
 - Blood lead levels of 5 $\mu\text{g}/\text{dL}$ (microgram/decileter)
 - IN DRINKING WATER
 - Water lead levels of 15 ppb (parts per billion)

PUBLIC HEALTH CONCERNS

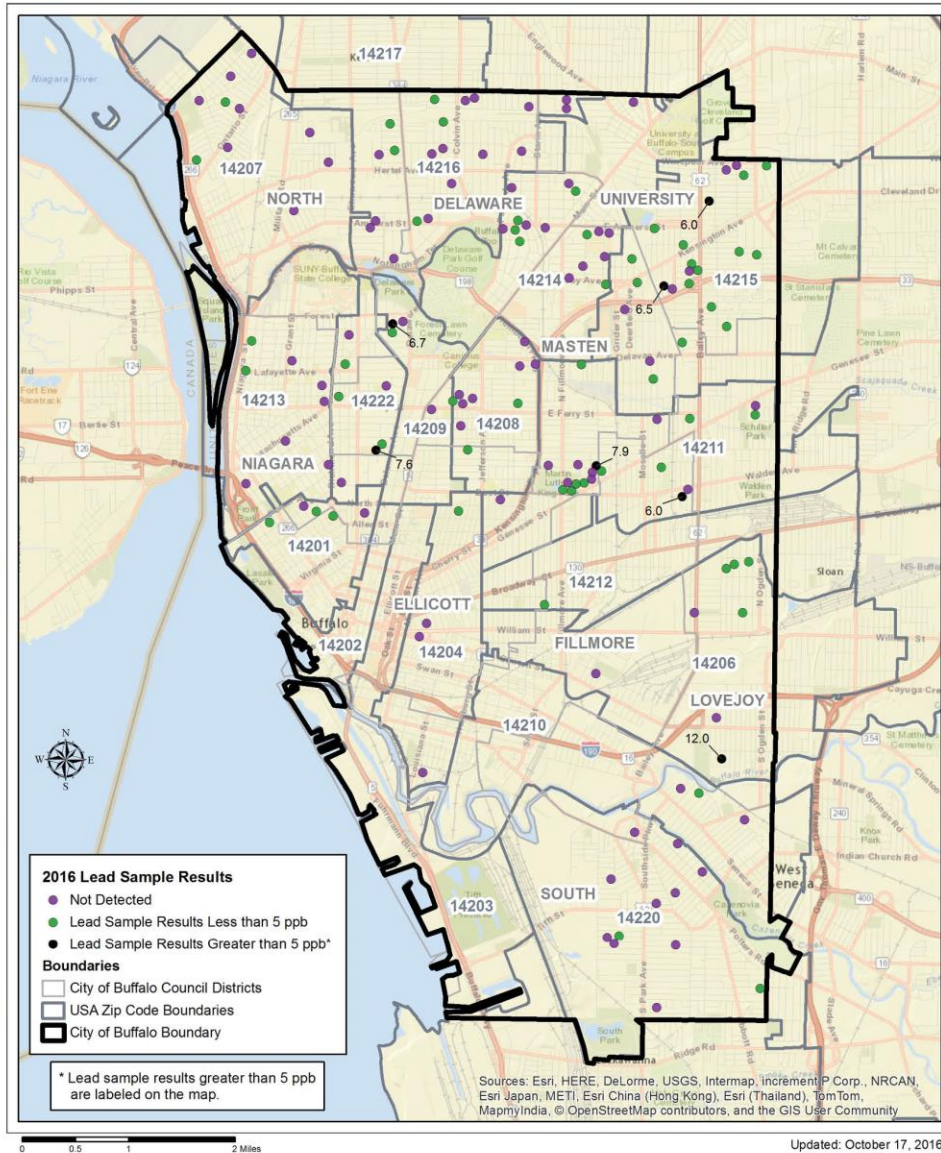


Source: AWWA, 2014

PUBLIC HEALTH CONCERNS



Operated by **VEOLIA**
WATER



BUFFALO WATER'S PROACTIVE APPROACH

- **Voluntarily Increased Testing Frequency:**
 - Required to test for lead in 50 residential locations once every three years
 - Increased to more than 150 residential locations on an annual basis
- **Community Outreach:**
 - Street to street engagement in low participation areas
 - Neighborhood block club meetings
 - Notices mailed with water bill
 - Utilized community and congregation leaders
 - Media events and interviews
 - Simplified participation via Mayor's 311 call center

INCREASED VOLUNTARY PUBLIC PARTICIPATION

Lead not detected

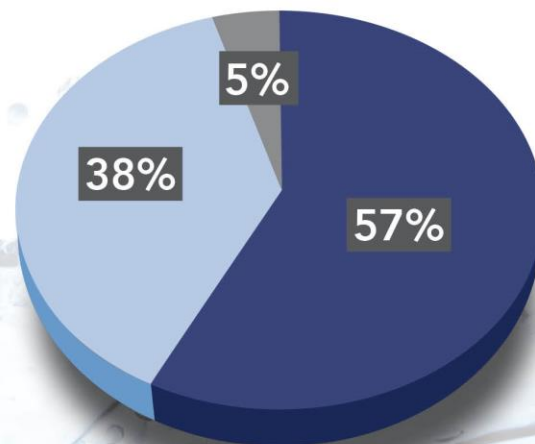
87

Lead less than 5 ppb

58

Lead greater than 5 ppb
and less than 15 ppb

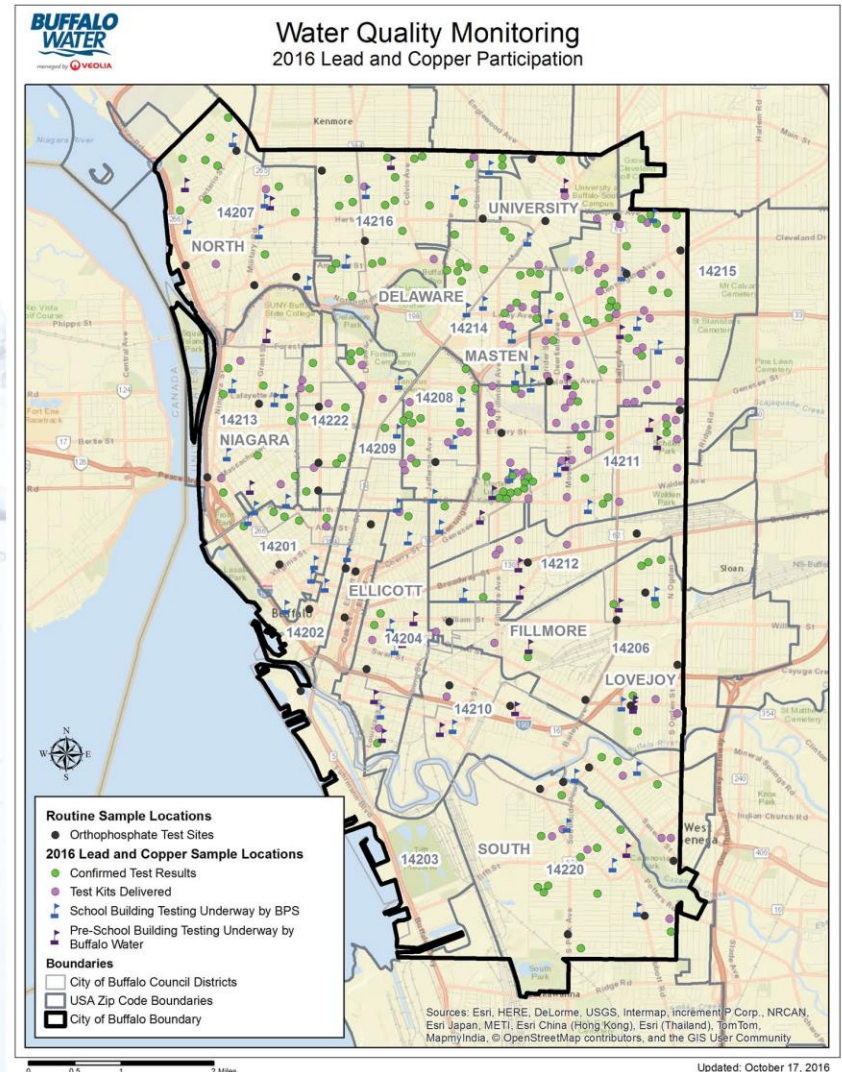
7



- Lead not detected
- Lead less than 5 ppb
- Lead greater than 5 ppb and less than 15 ppb

INCREASED VOLUNTARY PUBLIC PARTICIPATION

- 256 Lead Sample Kits delivered to customers across the City
- 152 confirmed test results
- 100% below the 15 ppb EPA Action Level
- Majority of samples had no lead detected



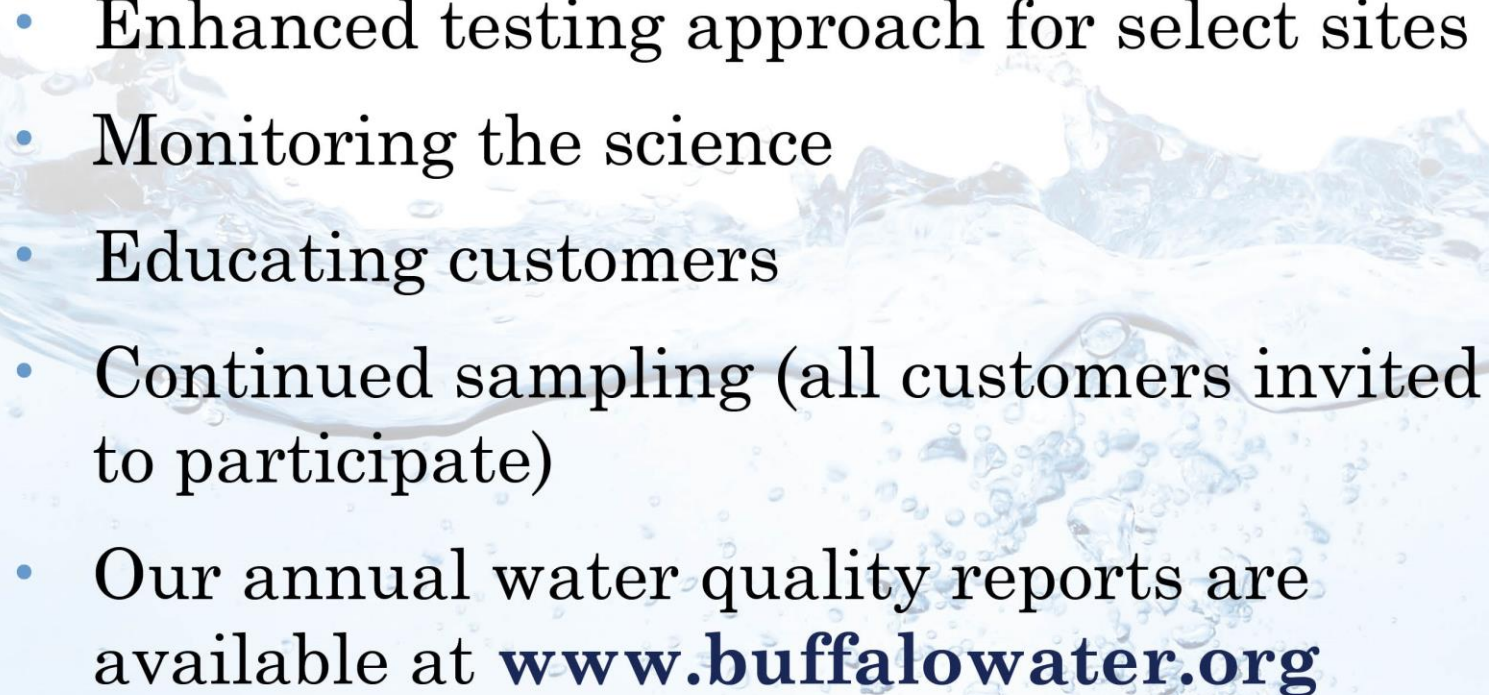
BUFFALO WATER'S PROACTIVE APPROACH

- Tested all park system water fountains located throughout the City
 - All results well below EPA action limit
- Watermain Construction
 - Install new service lines when replacing watermains
 - Public notice – hang tags in neighborhood
 - Since 2010, 1,500 services have been replaced

BUFFALO WATER'S PROACTIVE APPROACH

- As part of our continued proactive approach, samples with a result greater than 5 ppb, we initiate our own action plan
 - Certified 3rd party re-test provided for homeowner
 - Work with homeowner to identify solution(s)

PROACTIVE NEXT STEPS / MOVING FORWARD

- 
- Enhanced testing approach for select sites
 - Monitoring the science
 - Educating customers
 - Continued sampling (all customers invited to participate)
 - Our annual water quality reports are available at **www.buffalowater.org**

The background of the slide features a close-up, high-speed photograph of a water droplet falling into a pool of water. The droplet is suspended in mid-air just above the surface, creating a clear, spherical shape. Below it, the impact has created a series of concentric ripples that spread outwards. The water is a deep, vibrant blue, and the overall lighting is soft, giving the scene a clean and refreshing appearance. The text is centered over this image.

SAFE Drinking Water Buffalo, NY
