## **Massachusetts Water Resources Authority**

# **Update on Flint**

Dave Coppes, Director of Waterworks Massachusetts Water Resources Authority

June 29, 2017





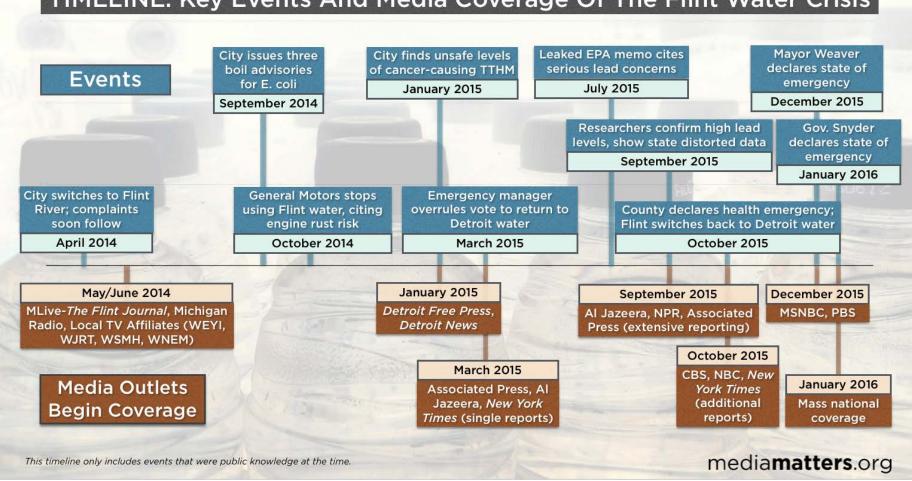


# Would You Drink This?





## TIMELINE: Key Events And Media Coverage Of The Flint Water Crisis



# **Blood Lead Level Analysis**

- Large sample size
  - N= 1746 for Flint children (pre n=906, post n=840)
  - N= 1670 for non-Flint children (pre n=943, post n=727)

#### Flint results for children 5 years and under:

PRE-SWITCH % EBL: 2.1% (consistent with MDHHS data 2.2)

POST-SWITCH % EBL: 4.0%

p < 0.05; STATISTICALLY SIGNIFICANT CHANGE</li>





# Flint Water - Legionnaires Outbreak



Health » Flint water crisis likely the cause of deadly Legionnaires outbreak

# Flint water crisis likely the cause of deadly Legionnaires outbreak



By Sara Ganim, CNN

Updated 9:43 AM ET, Thu March 30, 2017









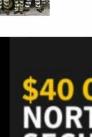
#StandWit trend takes



Hero inmat



COMPUTER





Flint water crisis likely the cause of deadly Legionnaires outbreak 03:07



# Flint - Involuntary Manslaughter Charges

#### 5 Charged With Involuntary Manslaughter in Flint Water Crisis

By SCOTT ATKINSON and MONICA DAVEY JUNE 14, 2017















Jeff Seipenko, center, a special agent for the Michigan attorney general, listened as a judge authorized charges on Wednesday against Nick Lyon, the director of the state's Department of Health and Human Services, in the

#### RELATED COVERAGE



 $\begin{array}{ll} 2\;Former\;Flint\;Emergency\;Managers\\ Charged\;Over\;Tainted\;Water\;\;_{DEC,\;20,\;2016} \end{array}$ 

For Flint, an 1882 Play About Bad Water Is 'Exactly What We're Living' JUNE 11, 2017



On This Block, Worries Run Deeper Than Flint's Tainted Water APRIL 25, 2017



Michigan Allots \$87 Million to Replace Flint's Tainted Water Pipes MARCH 27, 2017



Flint, and Michigan, Brace for More Charges in Water Inquiry OCT. 28, 2016



# Flint - Involuntary Manslaughter Charges

AROUND THE NATION

# Michigan Health Chief Charged With Involuntary Manslaughter In Flint Water Crisis

June 14, 2017 - 10:03 AM ET





AMITA KELLY 🛐 💆 🔯









# Flint Returns to Detroit Water Long Term

**AMERICA** 



# 3 Years After III-Fated Switch, Flint Mayor Recommends Using Detroit Water

g+

April 18, 2017 · 5:52 PM ET



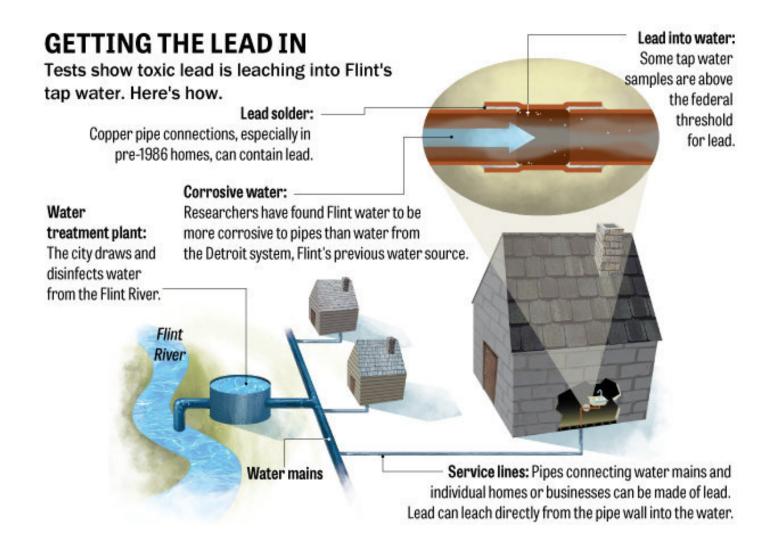
LAUREL WAMSLEY

After three years of confusion and chaos, Flint, Mich., residents may go back to the water source they used before lead contamination showed up in their drinking water.

In a press conference today, Mayor Karen Weaver recommended the city get its water from Detroit's system long-term. Flint was using Detroit water before switching in April 2014 to water from the Flint River as a cost-saving measure.

Using Flint River water was characterized as a temporary switch until the city's pipeline connecting to the Karegnondi Water Authority was complete. City officials didn't immediately treat the river water to ensure it didn't corrode pipes. Tests in 2015 showed elevated lead levels





**Overview** 



15,912 POSTS 10,259 PARCELS POSTED TO

FLINT WATER SAMPLES

#### LEAD LEVELS:

186 150ppb+: a range at which the federal government says water filters might not work

308 50-149ppb: reaching dangerous levels, but

can be treated by filters

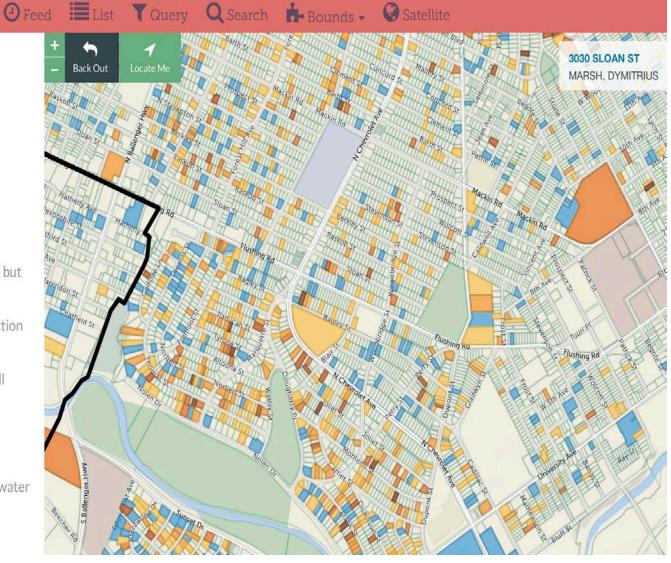
883 15-49ppb: a range above the federal action level for lead, but can be treated by filters

2039 5-14ppb: exposure is a concern, but still below an EPA 'federal action level'

FO40 1 Apply the EDA deems this rane

**5069 1-4ppb:** the EPA deems this range as acceptable

7427 Oppb: no lead detected in the drinking water



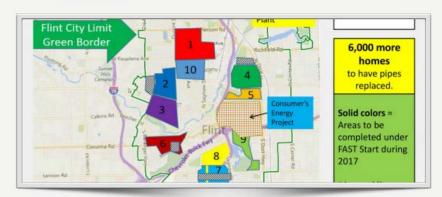


# Flint Moving Ahead with Lead Service Line Replacements

#### **Press Releases**

#### Work to Begin Next Week to Replace 6,000 Lead-Tainted Service Lines in Flint This Year

Posted by: Kristin Moore



28 APR

f 😈 💟 📴 😝

AARP Volunteers to Bring Consent Cards to Residents' Homes Starting

Saturday

**FLINT, Mich.** — Mayor Karen Weaver announced today that dozens of Flint residents will have their water service lines replaced next week as crews begin working to replace lead-tainted pipes leading to 6,000 homes during the 2017 phase of her FAST Start replacement initiative.



### Some Good Press About Lead Service Lines

#### Flint's pipe replacement may speed up in June

By STEVE CARMODY - MAY 28, 2017











STEVE CARMODY / MICHIGAN RADIO

Flint officials expect the city's pipe replacement program will ramp up in the month of June.

The city is removing lead and galvanized service lines connecting Flint homes and businesses to city water mains - and replacing them with copper pipes.

Mike McDaniel oversees Flint's pipe replacement program. He says digging up the pipes is time consuming, especially when crews discover a copper pipe is already in place.

Next month, McDaniel hopes to start using specialized equipment to drill small holes to check to see whether the pipes in the ground are lead or copper. He says that should speed the process up.

"That's a priority for me to do that as soon as possible," says McDaniel.

McDaniel's goal is to replace more than 40 service lines a day. That will enable the city to replace 6.000 service lines this year.

#### Michigan reaches deal with Flint to replace 18,000 lead-tainted water lines



Flint will replace at least 18 000 lead or galvanized-steel water lines by 2020, and the state will pick up the bill with state and federal money. (Carlos Osorio / AP)

By Ed White

MARCH 27, 2017, 7:10 PM | DETROIT

ichigan and the city of Flint agreed Monday to replace thousands of home water lines under a sweeping deal to settle a lawsuit by residents over leadcontaminated water in the struggling community.



In case you missed it



Confederate monument in St. Louis to be removed this week



Detroit judge to consider U.S. freeze on Iraqi deportations



Lawyer: Race a factor in St. Louis cop being mistakenly shot by fellow officer