

## FLINT, MICHIGAN: WATER CRISIS

What was the first sign that something was wrong with Flint's water?

- ☐ The water turned green
- ☐ The water smelled foul and turned orange
- ☐ The water became cloudy
- ☐ The water felt sticky

Why did Flint officials change their water source in 2013?

- ☐ To save money
- ☐ To improve water quality
- ☐ Due to contamination in the previous source
- ☐ To follow new regulations

Where did Flint get its water from after switching in 2014?

- ☐ Lake Michigan
- ☐ Detroit Water and Sewerage Department
- ☐ Flint River
- ☐ Lake Huron

## FLINT, MICHIGAN: WATER CRISIS

What dangerous substance contaminated Flint's water supply?

☐ Mercury

☐ Lead

☐ Iron

☐ Copper

How did lead enter Flint's water supply?

☐ Runoff from factories

☐ Leaching from old lead pipes

☐ Contaminated river water

☐ Failure in water filtration systems

What chemical should have been added to Flint's water to prevent lead contamination?

☐ Chlorine

☐ Phosphate

☐ Fluoride

☐ Sulfate

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What health issues are linked to lead exposure in children?

- ☐ Respiratory problems
- ☐ Skin diseases
- ☐ Developmental and behavioral problems
- ☐ Digestive issues

When did General Motors stop using Flint's water in their factory?

- ☐ April 2014
- ☐ May 2014
- ☐ October 2014
- ☐ January 2015

What level of lead in drinking water is considered the EPA's "action level"?

- ☐ 10 parts per billion
- ☐ 15 parts per billion
- ☐ 100 parts per billion
- ☐ 1,000 parts per billion

## FLINT, MICHIGAN: WATER CRISIS

What organic molecules were found in Flint's water after the switch?

- ☐ Methane
- ☐ Trihalomethanes
- ☐ Chloroform
- ☐ Lead compounds

How are trihalomethanes produced in water?

- ☐ By reacting with lead pipes
- ☐ From the reaction of chlorine with organic matter
- ☐ From chemical spills in the river
- ☐ By adding too much chlorine

Why did Flint residents have to boil their water?

- ☐ To kill bacteria
- ☐ To remove lead
- ☐ To reduce chlorine
- ☐ To lower pH

## FLINT, MICHIGAN: WATER CRISIS

What other factor accelerated pipe corrosion in Flint's water supply?

- ☐ High pH
- ☐ Chloride ions
- ☐ High temperature
- ☐ High fluoride levels

Why is maintaining a high pH important in preventing lead leaching?

- ☐ It dissolves lead more effectively
- ☐ It helps create a protective layer inside pipes
- ☐ It eliminates chlorine
- ☐ It stops the reaction of lead with oxygen

What was the long-term solution proposed to fix Flint's water crisis?

- ☐ Replacing old pipes
- ☐ Adding more chlorine
- ☐ Using bottled water permanently
- ☐ Switching to river water permanently